



# FCC RF Test Report

**Applicant:** PORTMAN ELECTRONICS (DONGGUAN) CO., LTD.  
**Address of Applicant:** NO#10, Luyi 2 Road, Keyuancheng, Tangxia Town,  
DONGGUAN CITY, GUANGDONG PROVINCE CHINA  
523718  
**Equipment Under Test (EUT)**  
**Product Name:** CAR ALARM  
**Model No.:** 91P  
**FCC ID:** TBQT44  
**Applicable Standards:** FCC CFR Title 47 Part 15C (§15.231)  
**Date of Sample Receipt:** 29 Nov., 2022  
**Date of Test:** 30 Nov., to 19 Dec., 2022  
**Date of Report Issue:** 10 Jan., 2023  
**Test Result:** PASS

**Tested by:**

Mike DU

Test Engineer

**Date:**

10 Jan., 2023

**Reviewed by:**

Wenwen Zhang

Project Engineer

**Date:**

10 Jan., 2023

**Approved by:**

Wenwen Zhang

Manager

**Date:**

10 Jan., 2023

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

## 1 Version

| Version No. | Date          | Description                   |
|-------------|---------------|-------------------------------|
| 00          | 20 Dec., 2022 | Original                      |
| 01          | 10 Jan., 2023 | 1. Updated pages 12/13/15/16. |
|             |               |                               |
|             |               |                               |
|             |               |                               |

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### 3 General Information

#### 3.1 Client Information

|                        |                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------|
| Applicant:             | PORTMAN ELECTRONICS (DONGGUAN) CO., LTD.                                                      |
| Address:               | NO#10, Luyi 2 Road, Keyuancheng, Tangxia Town, DONGGUAN CITY, GUANGDONG PROVINCE CHINA 523718 |
| Manufacturer/ Factory: | DONGGUAN PORTMAN ELECTRONIC SCIENCE AND TECHNOLOGY CO., LTD.                                  |
| Address:               | NO.10, LUYI 2 ROAD, TANGXIA TOWN, DONGGUAN CITY GUANGDONG PROVINCE                            |

#### 3.2 General Description of E.U.T.

|                        |                                                                               |
|------------------------|-------------------------------------------------------------------------------|
| Product Name:          | CAR ALARM                                                                     |
| Model No.:             | 91P                                                                           |
| Operation Frequency:   | 433.92 MHz                                                                    |
| Channel Numbers:       | 1                                                                             |
| Modulation Type:       | OOK                                                                           |
| Antenna Type:          | PCB Antenna                                                                   |
| Antenna Gain:          | -6 dBi                                                                        |
| Power Supply:          | DC 3V (CR2032 battery)                                                        |
| Test Sample Condition: | The test samples were provided in good working order with no visible defects. |

### 3.3 Test Mode and Environment

| Test Mode:                                                                                                                                                                                                                                          |                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Transmitting mode:                                                                                                                                                                                                                                  | Keep the EUT in transmitting mode with modulation |
| <b>Remark:</b> The EUT was placed on three different polar directions tested: i.e. X axis, Y axis, Z axis, and found the test results are both the "worst case" and "worst setup": Y axis, so the report only reflects the test data of worst mode. |                                                   |
| Operating Environment:                                                                                                                                                                                                                              |                                                   |
| Temperature:                                                                                                                                                                                                                                        | 15°C ~ 35°C                                       |
| Humidity:                                                                                                                                                                                                                                           | 20 % ~ 75 % RH                                    |
| Atmospheric Pressure:                                                                                                                                                                                                                               | 1008 mbar                                         |

### 3.4 Description of Test Auxiliary Equipment

| Manufacturer | Description | Model | Serial Number | FCC ID/DoC |
|--------------|-------------|-------|---------------|------------|
| N/A          | N/A         | N/A   | N/A           | N/A        |

### 3.5 Measurement Uncertainty

| Parameter                                                                                                                                                                                                                                                                                                              | Expanded Uncertainty<br>(Confidence of 95%(U = 2Uc(y))) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Conducted Emission for LISN (9kHz ~ 150kHz)                                                                                                                                                                                                                                                                            | ±3.11 dB                                                |
| Conducted Emission for LISN (150kHz ~ 30MHz)                                                                                                                                                                                                                                                                           | ±2.62 dB                                                |
| Radiated Emission (9kHz ~ 30MHz) (3m SAC)                                                                                                                                                                                                                                                                              | ±3.13 dB                                                |
| Radiated Emission (30MHz ~ 1GHz) (3m SAC)                                                                                                                                                                                                                                                                              | ±4.45 dB                                                |
| Radiated Emission (1GHz ~ 18GHz) (3m SAC)                                                                                                                                                                                                                                                                              | ±5.34 dB                                                |
| <b>Remark:</b> All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance. |                                                         |

### 3.6 Additions to, Deviations, or Exclusions From the Method

|    |
|----|
| No |
|----|

### 3.7 Laboratory Facility

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> <li>● <b>FCC - Designation No.: CN1211</b><br/>JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.</li> <li>● <b>ISED – CAB identifier.: CN0021</b><br/>The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.</li> <li>● <b>CNAS - Registration No.: CNAS L15527</b><br/>JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.</li> <li>● <b>A2LA - Registration No.: 4346.01</b><br/>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <a href="https://portal.a2la.org/scopepdf/4346-01.pdf">https://portal.a2la.org/scopepdf/4346-01.pdf</a></li> </ul> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 3.8 Laboratory Location

|                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>JianYan Testing Group Shenzhen Co., Ltd.<br/>Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.<br/>Tel: +86-755-23118282, Fax: +86-755-23116366<br/>Email: info-JYTee@lets.com, Website: <a href="http://jyt.lets.com">http://jyt.lets.com</a></p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 3.9 Test Instruments List

| Radiated Emission(3m SAC):   |                 |                 |                  |                      |                          |
|------------------------------|-----------------|-----------------|------------------|----------------------|--------------------------|
| Test Equipment               | Manufacturer    | Model No.       | Manage No.       | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| 3m SAC                       | ETS             | 9m*6m*6m        | WXJ001-1         | 04-14-2021           | 04-13-2024               |
| BiConiLog Antenna            | Schwarzbeck     | VULB9163        | WXJ002           | 03-08-2022           | 03-07-2023               |
| Horn Antenna                 | Schwarzbeck     | BBHA9120D       | WXJ002-2         | 03-08-2022           | 03-07-2023               |
| Pre-amplifier (30MHz ~ 1GHz) | Schwarzbeck     | BBV9743B        | WXJ001-2         | 01-20-2022           | 01-19-2023               |
| Pre-amplifier (1GHz ~ 18GHz) | SKET            | LNPA_0118G-50   | WXJ001-3         | 01-20-2022           | 01-19-2023               |
| EMI Test Receiver            | Rohde & Schwarz | ESRP7           | WXJ003-1         | 03-05-2022           | 03-04-2023               |
| Spectrum Analyzer            | Rohde & Schwarz | FSP 30          | WXJ004           | 01-20-2022           | 01-19-2023               |
| Coaxial Cable (30MHz ~ 1GHz) | JYTSZ           | JYT3M-1G-NN-8M  | WXG001-4         | 01-20-2022           | 01-19-2023               |
| Coaxial Cable (1GHz ~ 18GHz) | JYTSZ           | JYT3M-18G-NN-8M | WXG001-5         | 01-20-2022           | 01-19-2023               |
| Band Reject Filter Group     | Tonscend        | JS0806-F        | WXJ089           | N/A                  |                          |
| Test Software                | Tonscend        | TS+             | Version: 3.0.0.1 |                      |                          |

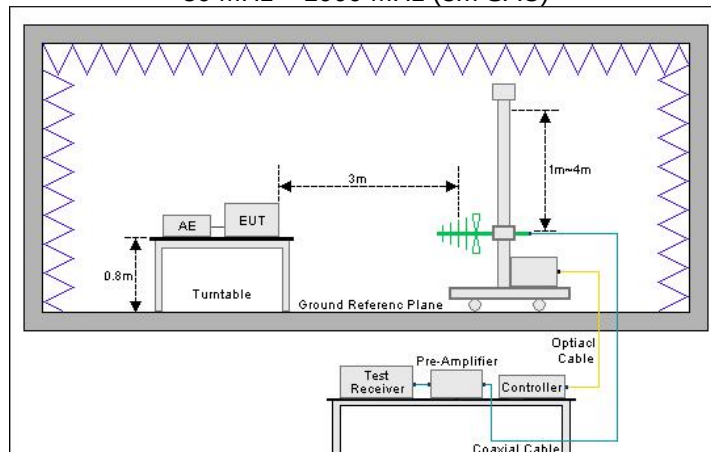
| Conducted Method: |              |           |            |                      |                          |
|-------------------|--------------|-----------|------------|----------------------|--------------------------|
| Test Equipment    | Manufacturer | Model No. | Manage No. | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| Spectrum Analyzer | Agilent      | N9020A    | WXJ004-1   | 10-17-2022           | 10-17-2023               |

## 4 Measurement Setup and Procedure

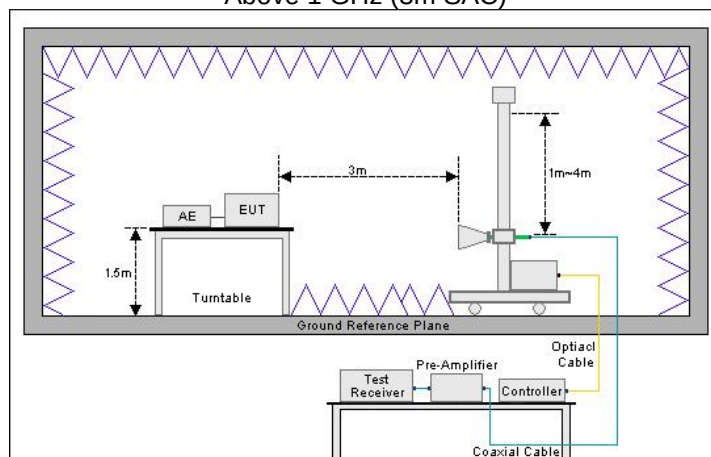
### 4.1 Test Setup

**Radiated emission measurement:**

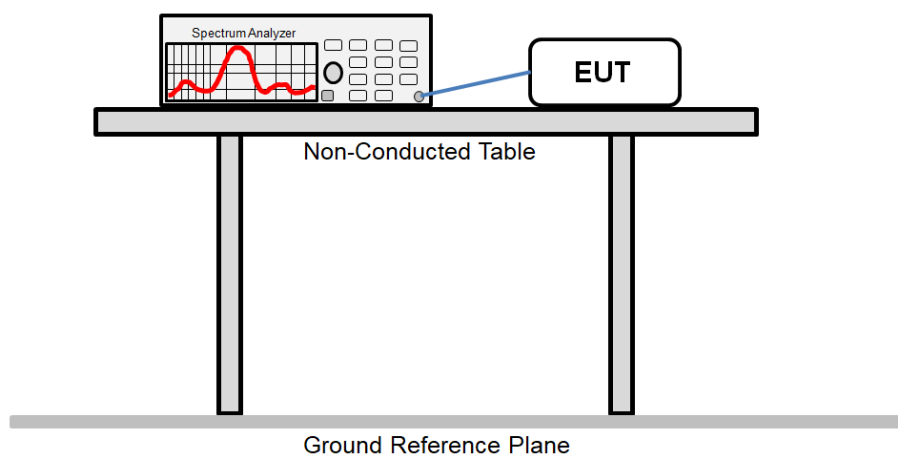
30 MHz – 1000 MHz (3m SAC)



Above 1 GHz (3m SAC)



**Conducted test method:**



## 4.2 Test Procedure

| Test method           | Test step                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Radiated emission     | <ol style="list-style-type: none"> <li>1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.</li> <li>2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.</li> <li>3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.</li> </ol> |
| Conducted test method | <ol style="list-style-type: none"> <li>1. The antenna port of EUT was connected to the RF port of the spectrum analyzer through an RF cable.</li> <li>2. The EUT is keeping in continuous transmission mode and tested in all modulation modes.</li> <li>3. The test data is saved by the screenshot function of the spectrum analyzer.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## 5 Test Results

### 5.1 Summary

#### 5.1.1 Clause and Data Summary

| Test items                                                                                                              | Standard clause                     | Test data       | Result |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------|--------|
| Antenna Requirement                                                                                                     | 15.203                              | See Section 5.2 | Pass   |
| AC Power Line Conducted Emission                                                                                        | 15.207                              | N/A             | N/A    |
| 20dB Bandwidth                                                                                                          | 15.231 (c)                          | See Section 5.3 | Pass   |
| Field Strength of Fundamental                                                                                           | 15.231 (b)                          | See Section 5.4 | Pass   |
| Field Strength of Spurious Emissions                                                                                    | 15.209<br>15.231 (b)                | See Section 5.5 | Pass   |
| Duration Time                                                                                                           | 15.231 (a)(1)                       | See Section 5.6 | Pass   |
| <b>Remark:</b><br>1. Pass: The EUT complies with the essential requirements in the standard.<br>2. N/A: Not Applicable. |                                     |                 |        |
| <b>Test Method:</b>                                                                                                     | ANSI C63.4-2014<br>ANSI C63.10-2013 |                 |        |

## 5.1.2 Test Limit

| Test items                                                                | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                         |                                                  |                                                         |               |      |     |                |      |     |                 |                           |                         |                 |      |     |                 |                            |                          |              |       |      |                 |                     |          |         |      |            |          |      |            |           |      |            |            |      |            |           |                     |  |         |       |             |      |      |
|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------|---------------|------|-----|----------------|------|-----|-----------------|---------------------------|-------------------------|-----------------|------|-----|-----------------|----------------------------|--------------------------|--------------|-------|------|-----------------|---------------------|----------|---------|------|------------|----------|------|------------|-----------|------|------------|------------|------|------------|-----------|---------------------|--|---------|-------|-------------|------|------|
| 20dB Bandwidth                                                            | The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                         |                                                  |                                                         |               |      |     |                |      |     |                 |                           |                         |                 |      |     |                 |                            |                          |              |       |      |                 |                     |          |         |      |            |          |      |            |           |      |            |            |      |            |           |                     |  |         |       |             |      |      |
| Field Strength of Fundamental<br><br>Field Strength of Spurious Emissions | <table><tr><th>Fundamental Frequency (MHz)</th><th>Field strength of fundamental (microvolts/meter)</th><th>Field strength of spurious emissions (microvolts/meter)</th></tr><tr><td>40.66 – 40.70</td><td>2250</td><td>225</td></tr><tr><td>70.00 – 130.00</td><td>1250</td><td>125</td></tr><tr><td>130.00 – 174.00</td><td><sup>1</sup>1250 to 3750</td><td><sup>1</sup>125 to 375</td></tr><tr><td>174.00 – 260.00</td><td>3750</td><td>375</td></tr><tr><td>260.00 – 470.00</td><td><sup>1</sup>3750 to 12500</td><td><sup>1</sup>375 to 1250</td></tr><tr><td>Above 470.00</td><td>12500</td><td>1250</td></tr></table> <p><sup>1</sup>Linear interpolations.</p> <p>(1) The above field strength limits are specified at a distance of 3 meters. The tighter limits apply at the band edges.</p> <p>(2) Intentional radiators operating under the provisions of this section shall demonstrate compliance with the limits on the field strength of emissions, as shown in the above table, based on the average value of the measured emissions. As an alternative, compliance with the limits in the above table may be based on the use of measurement instrumentation with a CISPR quasi-peak detector. The specific method of measurement employed shall be specified in the application for equipment authorization. If average emission measurements are employed, the provisions in § 15.35 for averaging pulsed emissions and for limiting peak emissions apply. Further, compliance with the provisions of § 15.205 shall be demonstrated using the measurement instrumentation specified in that section.</p> <p>(3) The limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in § 15.209, whichever limit permits a higher field strength:</p> <table><tr><th>Frequency (MHz)</th><th>Limit (dBµV/m) @ 3m</th><th>Detector</th></tr><tr><td>30 – 88</td><td>40.0</td><td>Quasi-peak</td></tr><tr><td>88 – 216</td><td>43.5</td><td>Quasi-peak</td></tr><tr><td>216 – 960</td><td>46.0</td><td>Quasi-peak</td></tr><tr><td>960 – 1000</td><td>54.0</td><td>Quasi-peak</td></tr></table> <p><b>Note:</b> The more stringent limit applies at transition frequencies.</p> <table><tr><th rowspan="2">Frequency</th><th colspan="2">Limit (dBµV/m) @ 3m</th></tr><tr><th>Average</th><th>Peake</th></tr><tr><td>Above 1 GHz</td><td>54.0</td><td>74.0</td></tr></table> <p><b>Note:</b> The measurement bandwidth shall be 1 MHz or greater.</p> | Fundamental Frequency (MHz)                             | Field strength of fundamental (microvolts/meter) | Field strength of spurious emissions (microvolts/meter) | 40.66 – 40.70 | 2250 | 225 | 70.00 – 130.00 | 1250 | 125 | 130.00 – 174.00 | <sup>1</sup> 1250 to 3750 | <sup>1</sup> 125 to 375 | 174.00 – 260.00 | 3750 | 375 | 260.00 – 470.00 | <sup>1</sup> 3750 to 12500 | <sup>1</sup> 375 to 1250 | Above 470.00 | 12500 | 1250 | Frequency (MHz) | Limit (dBµV/m) @ 3m | Detector | 30 – 88 | 40.0 | Quasi-peak | 88 – 216 | 43.5 | Quasi-peak | 216 – 960 | 46.0 | Quasi-peak | 960 – 1000 | 54.0 | Quasi-peak | Frequency | Limit (dBµV/m) @ 3m |  | Average | Peake | Above 1 GHz | 54.0 | 74.0 |
| Fundamental Frequency (MHz)                                               | Field strength of fundamental (microvolts/meter)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Field strength of spurious emissions (microvolts/meter) |                                                  |                                                         |               |      |     |                |      |     |                 |                           |                         |                 |      |     |                 |                            |                          |              |       |      |                 |                     |          |         |      |            |          |      |            |           |      |            |            |      |            |           |                     |  |         |       |             |      |      |
| 40.66 – 40.70                                                             | 2250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 225                                                     |                                                  |                                                         |               |      |     |                |      |     |                 |                           |                         |                 |      |     |                 |                            |                          |              |       |      |                 |                     |          |         |      |            |          |      |            |           |      |            |            |      |            |           |                     |  |         |       |             |      |      |
| 70.00 – 130.00                                                            | 1250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 125                                                     |                                                  |                                                         |               |      |     |                |      |     |                 |                           |                         |                 |      |     |                 |                            |                          |              |       |      |                 |                     |          |         |      |            |          |      |            |           |      |            |            |      |            |           |                     |  |         |       |             |      |      |
| 130.00 – 174.00                                                           | <sup>1</sup> 1250 to 3750                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <sup>1</sup> 125 to 375                                 |                                                  |                                                         |               |      |     |                |      |     |                 |                           |                         |                 |      |     |                 |                            |                          |              |       |      |                 |                     |          |         |      |            |          |      |            |           |      |            |            |      |            |           |                     |  |         |       |             |      |      |
| 174.00 – 260.00                                                           | 3750                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 375                                                     |                                                  |                                                         |               |      |     |                |      |     |                 |                           |                         |                 |      |     |                 |                            |                          |              |       |      |                 |                     |          |         |      |            |          |      |            |           |      |            |            |      |            |           |                     |  |         |       |             |      |      |
| 260.00 – 470.00                                                           | <sup>1</sup> 3750 to 12500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <sup>1</sup> 375 to 1250                                |                                                  |                                                         |               |      |     |                |      |     |                 |                           |                         |                 |      |     |                 |                            |                          |              |       |      |                 |                     |          |         |      |            |          |      |            |           |      |            |            |      |            |           |                     |  |         |       |             |      |      |
| Above 470.00                                                              | 12500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1250                                                    |                                                  |                                                         |               |      |     |                |      |     |                 |                           |                         |                 |      |     |                 |                            |                          |              |       |      |                 |                     |          |         |      |            |          |      |            |           |      |            |            |      |            |           |                     |  |         |       |             |      |      |
| Frequency (MHz)                                                           | Limit (dBµV/m) @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Detector                                                |                                                  |                                                         |               |      |     |                |      |     |                 |                           |                         |                 |      |     |                 |                            |                          |              |       |      |                 |                     |          |         |      |            |          |      |            |           |      |            |            |      |            |           |                     |  |         |       |             |      |      |
| 30 – 88                                                                   | 40.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Quasi-peak                                              |                                                  |                                                         |               |      |     |                |      |     |                 |                           |                         |                 |      |     |                 |                            |                          |              |       |      |                 |                     |          |         |      |            |          |      |            |           |      |            |            |      |            |           |                     |  |         |       |             |      |      |
| 88 – 216                                                                  | 43.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Quasi-peak                                              |                                                  |                                                         |               |      |     |                |      |     |                 |                           |                         |                 |      |     |                 |                            |                          |              |       |      |                 |                     |          |         |      |            |          |      |            |           |      |            |            |      |            |           |                     |  |         |       |             |      |      |
| 216 – 960                                                                 | 46.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Quasi-peak                                              |                                                  |                                                         |               |      |     |                |      |     |                 |                           |                         |                 |      |     |                 |                            |                          |              |       |      |                 |                     |          |         |      |            |          |      |            |           |      |            |            |      |            |           |                     |  |         |       |             |      |      |
| 960 – 1000                                                                | 54.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Quasi-peak                                              |                                                  |                                                         |               |      |     |                |      |     |                 |                           |                         |                 |      |     |                 |                            |                          |              |       |      |                 |                     |          |         |      |            |          |      |            |           |      |            |            |      |            |           |                     |  |         |       |             |      |      |
| Frequency                                                                 | Limit (dBµV/m) @ 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                         |                                                  |                                                         |               |      |     |                |      |     |                 |                           |                         |                 |      |     |                 |                            |                          |              |       |      |                 |                     |          |         |      |            |          |      |            |           |      |            |            |      |            |           |                     |  |         |       |             |      |      |
|                                                                           | Average                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Peake                                                   |                                                  |                                                         |               |      |     |                |      |     |                 |                           |                         |                 |      |     |                 |                            |                          |              |       |      |                 |                     |          |         |      |            |          |      |            |           |      |            |            |      |            |           |                     |  |         |       |             |      |      |
| Above 1 GHz                                                               | 54.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 74.0                                                    |                                                  |                                                         |               |      |     |                |      |     |                 |                           |                         |                 |      |     |                 |                            |                          |              |       |      |                 |                     |          |         |      |            |          |      |            |           |      |            |            |      |            |           |                     |  |         |       |             |      |      |
| Duration Time                                                             | A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                         |                                                  |                                                         |               |      |     |                |      |     |                 |                           |                         |                 |      |     |                 |                            |                          |              |       |      |                 |                     |          |         |      |            |          |      |            |           |      |            |            |      |            |           |                     |  |         |       |             |      |      |

## 5.2 Antenna Requirement

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>Standard requirement:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FCC Part15 C Section 15.203 |
| <b>15.203 requirement:</b><br>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. |                             |
| <b>E.U.T Antenna:</b><br>The antenna of EUT is a PCB Antenna which cannot replace by end-user. See product internal photos for details.                                                                                                                                                                                                                                                                                                                                          |                             |

### 5.3 20dB Bandwidth

| 20dB bandwidth (MHz)                                                     | Limit (MHz) | Results |
|--------------------------------------------------------------------------|-------------|---------|
| 0.031856                                                                 | 1.0848      | Passed  |
| <b>Note:</b> Limit = Fundamental frequency×0.25%=433.92×0.25%=1.0848MHz. |             |         |

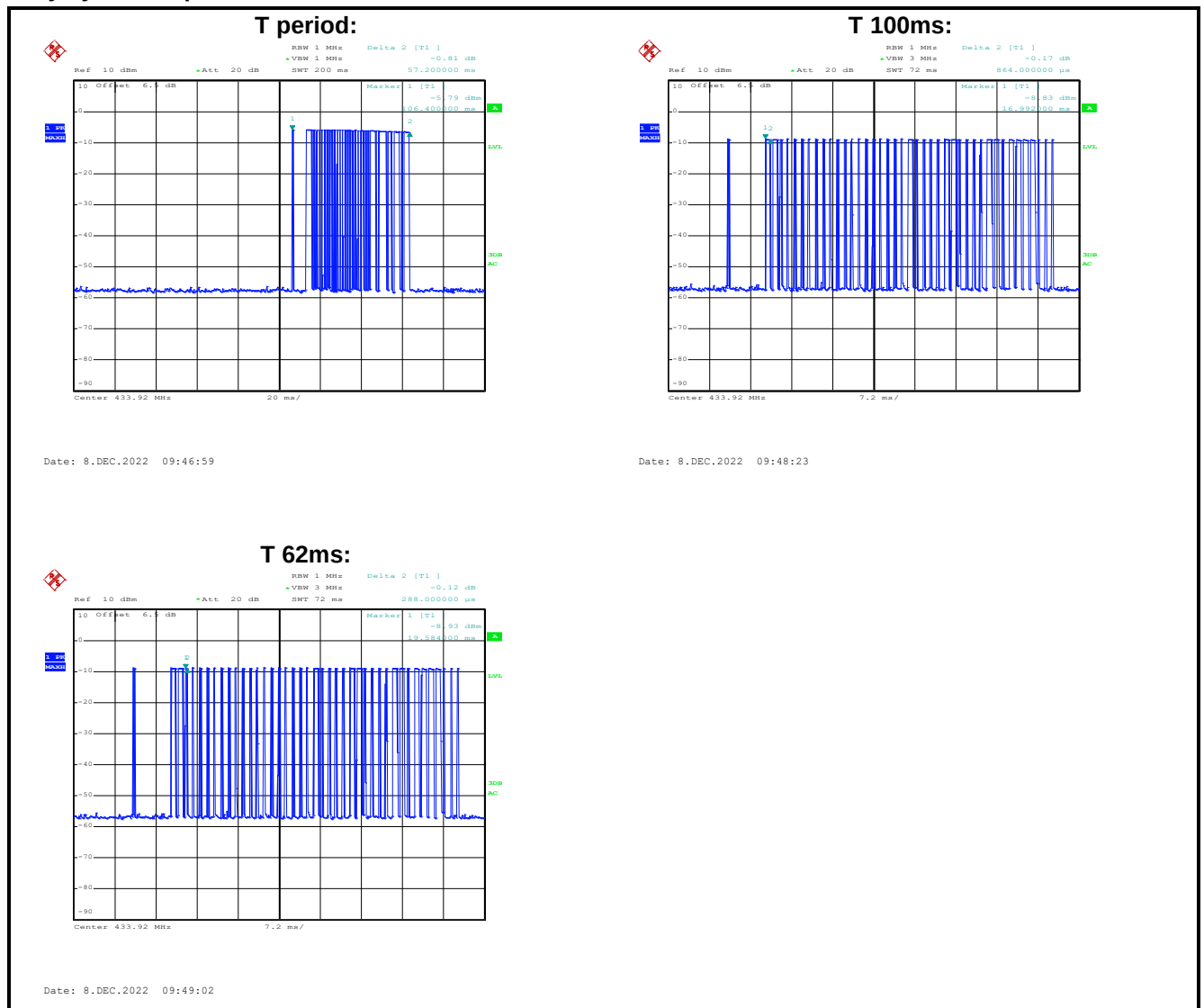
Test plot as follows:



## 5.4 Field Strength of Fundamental

| Peak value                              |                                                                    |                   |                        |                |             |              |
|-----------------------------------------|--------------------------------------------------------------------|-------------------|------------------------|----------------|-------------|--------------|
| Frequency (MHz)                         | Read level (dBuV)                                                  | Factor (dB/m)     | Level (dBuV/m)         | Limit (dBuV/m) | Margin (dB) | Polarization |
| 433.8514                                | 100.39                                                             | -10.25            | 90.14                  | 100.83         | 10.69       | Vertical     |
| 433.8514                                | 94.63                                                              | -10.25            | 84.38                  | 100.83         | 16.45       | Horizontal   |
| 867.8728                                | 54.13                                                              | -3.03             | 51.10                  | 80.83          | 29.73       | Vertical     |
| 867.8728                                | 49.56                                                              | -3.03             | 46.53                  | 80.83          | 34.30       | Horizontal   |
| Average value                           |                                                                    |                   |                        |                |             |              |
| Frequency (MHz)                         | Level (dBuV/m)                                                     | Duty cycle factor | Average Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Polarization |
| 433.8514                                | 90.14                                                              | -9.84             | 80.30                  | 80.83          | 0.53        | Vertical     |
| 433.8514                                | 84.38                                                              | -9.84             | 74.54                  | 80.83          | 6.29        | Horizontal   |
| 867.8728                                | 51.10                                                              | -9.84             | 41.26                  | 60.83          | 19.57       | Vertical     |
| 867.8728                                | 46.53                                                              | -9.84             | 36.69                  | 60.83          | 24.14       | Horizontal   |
| Duty Cycle Factor<br>Calculate Formula: | Average value = Peak value + Duty Cycle Factor                     |                   |                        |                |             |              |
|                                         | Duty cycle factor = 20log(Duty cycle)                              |                   |                        |                |             |              |
|                                         | Duty cycle = on time/100 milliseconds or period, whichever is less |                   |                        |                |             |              |
|                                         | Margin = Limit - Level                                             |                   |                        |                |             |              |
|                                         | T on time = 0.864*11+0.288*31=18.432(ms)                           |                   |                        |                |             |              |
|                                         | T period = 57.2 (ms)                                               |                   |                        |                |             |              |
|                                         | Duty cycle = 32.2%                                                 |                   |                        |                |             |              |
|                                         | Duty cycle factor = 20log(Duty cycle) = -9.84                      |                   |                        |                |             |              |

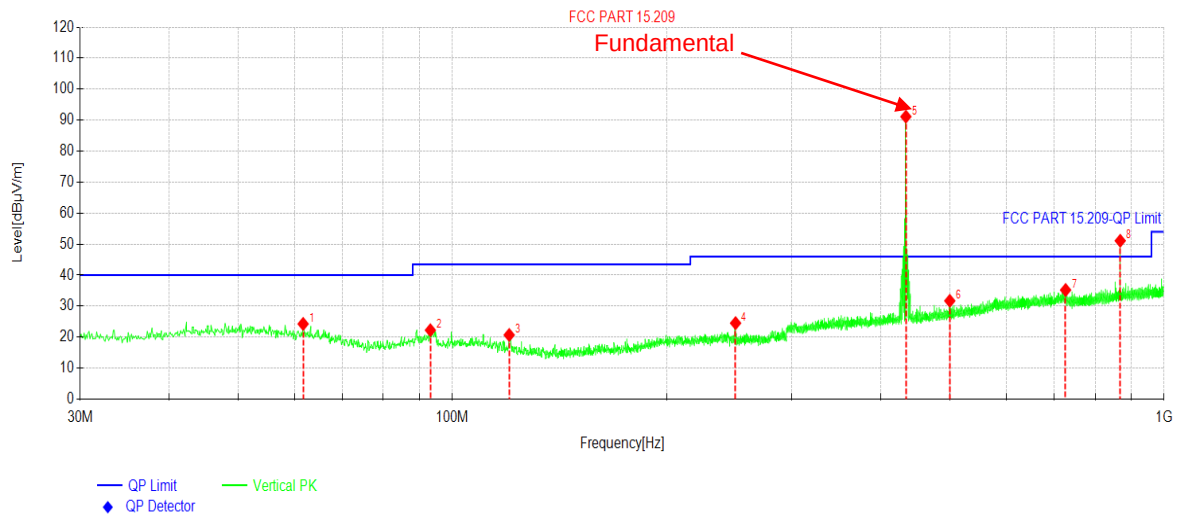
### Duty cycle test plots:



## 5.5 Field Strength of Spurious Emissions

Below 1GHz (30MHz-1000MHz)

|                 |                   |                |          |
|-----------------|-------------------|----------------|----------|
| Product Name:   | CAR ALARM         | Product Model: | 91P      |
| Test By:        | Mike              | Test mode:     | Tx mode  |
| Test Frequency: | 30 MHz – 1000 MHz | Polarization:  | Vertical |
| Test Voltage:   | DC 3V             |                |          |



Suspected Data List

| NO. | Freq.<br>[MHz] | Reading[d<br>BuV/m] | Level<br>[dBuV/m] | Factor<br>[dB] | Limit<br>[dBuV/m] | Margin<br>[dB] | Trace | Polarity |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|-------|----------|
| 1   | 61.7222        | 38.77               | 24.26             | -14.51         | 40.00             | 15.74          | PK    | Vertical |
| 2   | 93.1533        | 37.95               | 22.25             | -15.70         | 43.50             | 21.25          | PK    | Vertical |
| 3   | 120.219        | 37.24               | 20.69             | -16.55         | 43.50             | 22.81          | PK    | Vertical |
| 4   | 250.018        | 38.52               | 24.52             | -14.00         | 46.00             | 21.48          | PK    | Vertical |
| 6   | 500.012        | 40.70               | 31.71             | -8.99          | 46.00             | 14.29          | PK    | Vertical |
| 7   | 727.305        | 40.13               | 35.21             | -4.92          | 46.00             | 10.79          | PK    | Vertical |

Suspected Data List

| NO. | Freq.<br>[MHz] | Reading[d<br>BuV/m] | Level<br>[dBuV/m] | Factor<br>[dB] | Limit<br>[dBuV/m] | Margin<br>[dB] | Trace | Polarity |
|-----|----------------|---------------------|-------------------|----------------|-------------------|----------------|-------|----------|
| 1   | 433.8514       | 100.39              | 90.14             | -10.25         | 100.83            | 10.69          | PK    | Vertical |
| 2   | 867.8728       | 54.13               | 51.10             | -3.03          | 80.83             | 29.73          | PK    | Vertical |

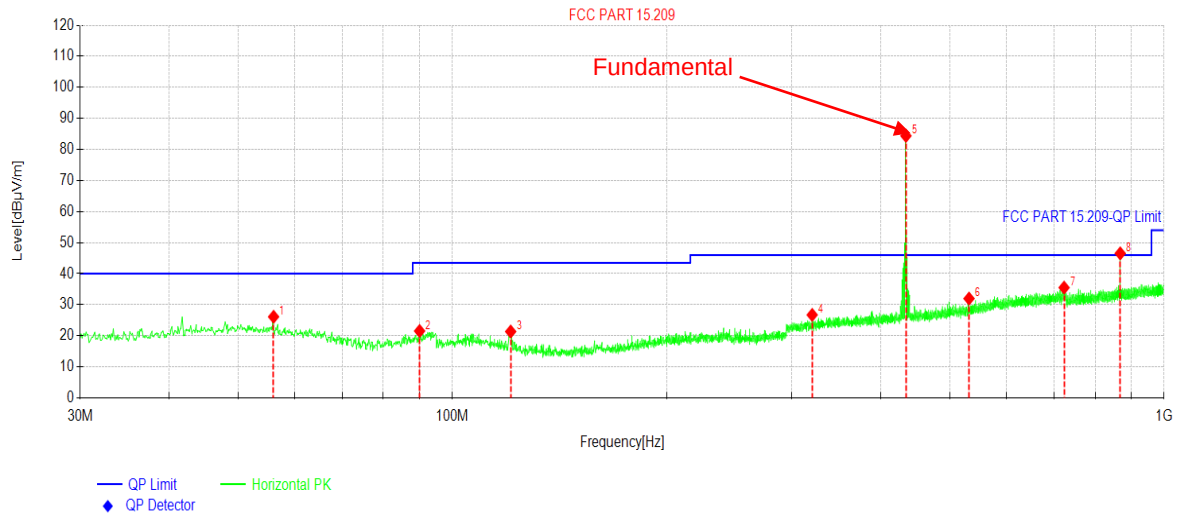
Suspected Data List

| NO. | Freq.<br>[MHz] | Peak Level<br>(dBuV/m) | Duty cycle<br>factor[dB] | Average value<br>(dBuV/m) | Limit<br>[dBuV/m] | Margin<br>[dB] | Trace | Polarity |
|-----|----------------|------------------------|--------------------------|---------------------------|-------------------|----------------|-------|----------|
| 1   | 433.8514       | 90.14                  | -9.84                    | 80.30                     | 80.83             | 0.53           | AV    | Vertical |
| 2   | 867.8728       | 51.10                  | -9.84                    | 41.26                     | 60.83             | 19.57          | AV    | Vertical |

**Remark:**

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

|                 |                   |                |            |
|-----------------|-------------------|----------------|------------|
| Product Name:   | CAR ALARM         | Product Model: | 91P        |
| Test By:        | Mike              | Test mode:     | Tx mode    |
| Test Frequency: | 30 MHz – 1000 MHz | Polarization:  | Horizontal |
| Test Voltage:   | DC 3V             |                |            |



| Suspected Data List |             |                 |                |             |                |             |       |            |
|---------------------|-------------|-----------------|----------------|-------------|----------------|-------------|-------|------------|
| NO.                 | Freq. [MHz] | Reading[dBuV/m] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Trace | Polarity   |
| 1                   | 56.0956     | 39.57           | 26.12          | -13.45      | 40.00          | 13.88       | PK    | Horizontal |
| 2                   | 89.9520     | 37.92           | 21.53          | -16.39      | 43.50          | 21.97       | PK    | Horizontal |
| 3                   | 120.801     | 38.03           | 21.36          | -16.67      | 43.50          | 22.14       | PK    | Horizontal |
| 4                   | 320.350     | 39.23           | 26.72          | -12.51      | 46.00          | 19.28       | PK    | Horizontal |
| 6                   | 532.122     | 40.31           | 31.98          | -8.33       | 46.00          | 14.02       | PK    | Horizontal |
| 7                   | 723.716     | 40.50           | 35.51          | -4.99       | 46.00          | 10.49       | PK    | Horizontal |

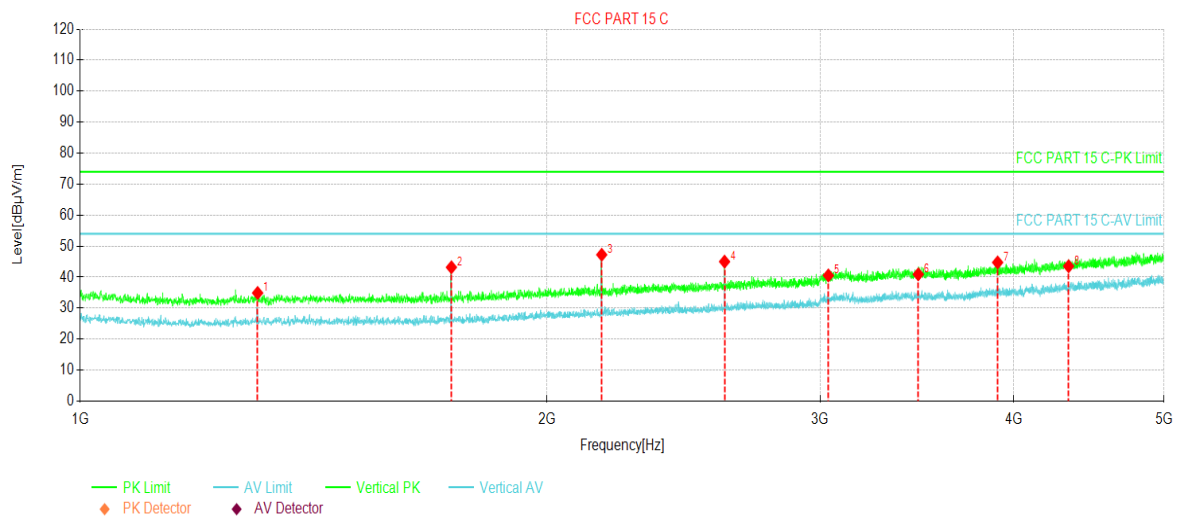
| Suspected Data List |             |                 |                |             |                |             |       |            |
|---------------------|-------------|-----------------|----------------|-------------|----------------|-------------|-------|------------|
| NO.                 | Freq. [MHz] | Reading[dBuV/m] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Trace | Polarity   |
| 1                   | 433.8514    | 94.63           | 84.38          | -10.25      | 100.83         | 16.45       | PK    | Horizontal |
| 2                   | 867.8728    | 49.56           | 46.53          | -3.03       | 80.83          | 34.3        | PK    | Horizontal |

| Suspected Data List |             |                     |                       |                        |                |             |       |            |
|---------------------|-------------|---------------------|-----------------------|------------------------|----------------|-------------|-------|------------|
| NO.                 | Freq. [MHz] | Peak Level (dBuV/m) | Duty cycle factor[dB] | Average value (dBuV/m) | Limit [dBμV/m] | Margin [dB] | Trace | Polarity   |
| 1                   | 433.8514    | 84.38               | -9.84                 | 74.54                  | 80.83          | 6.29        | AV    | Horizontal |
| 2                   | 867.8728    | 46.53               | -9.84                 | 36.69                  | 60.83          | 24.14       | AV    | Horizontal |

#### Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

|                 |                     |                |          |
|-----------------|---------------------|----------------|----------|
| Product Name:   | CAR ALARM           | Product Model: | 91P      |
| Test By:        | Mike                | Test mode:     | Tx mode  |
| Test Frequency: | 1000 MHz – 5000 MHz | Polarization:  | Vertical |
| Test Voltage:   | DC 3V               |                |          |



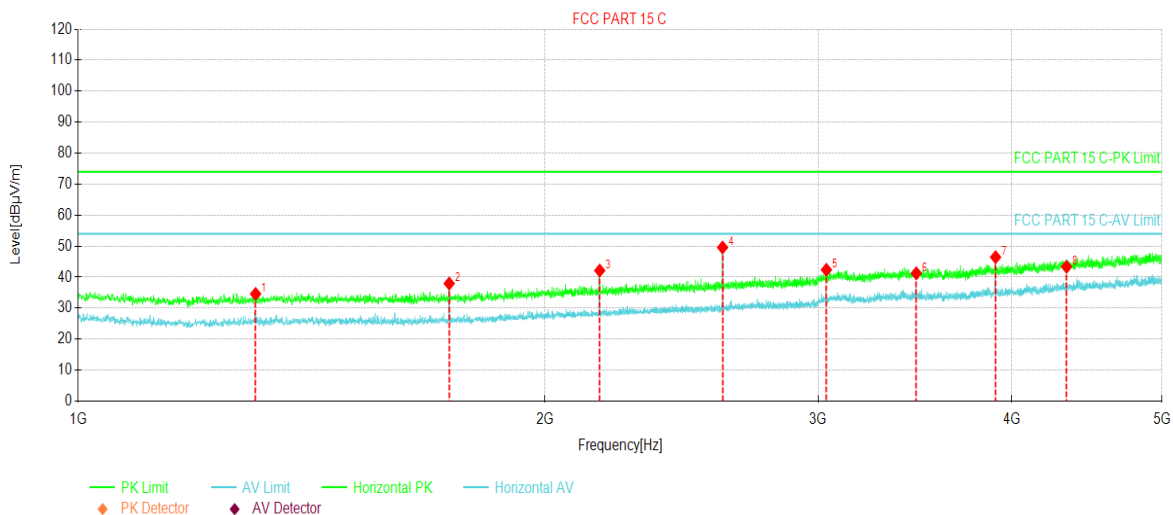
| Suspected Data List |             |                  |             |                |                |             |       |          |
|---------------------|-------------|------------------|-------------|----------------|----------------|-------------|-------|----------|
| NO.                 | Freq. [MHz] | Reading [dBuV/m] | Factor [dB] | Level [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Trace | Polarity |
| 1                   | 1301.5000   | 57.46            | -22.56      | 34.90          | 74.00          | 39.10       | PK    | Vertical |
| 2                   | 1735.5000   | 65.25            | -22.07      | 43.18          | 80.83          | 37.65       | PK    | Vertical |
| 3                   | 2169.5000   | 67.19            | -19.97      | 47.22          | 80.83          | 33.61       | PK    | Vertical |
| 4                   | 2603.5000   | 63.16            | -18.16      | 45.00          | 80.83          | 35.83       | PK    | Vertical |
| 5                   | 3037.4400   | 56.88            | -16.33      | 40.55          | 80.83          | 40.28       | PK    | Vertical |
| 6                   | 3471.3600   | 55.68            | -14.77      | 40.91          | 80.83          | 39.92       | PK    | Vertical |
| 7                   | 3905.5000   | 57.87            | -13.13      | 44.74          | 74.00          | 29.26       | PK    | Vertical |
| 8                   | 4339.2000   | 54.38            | -10.85      | 43.53          | 74.00          | 30.47       | PK    | Vertical |

| Suspected Data List |             |                     |                        |                        |                |             |       |          |
|---------------------|-------------|---------------------|------------------------|------------------------|----------------|-------------|-------|----------|
| NO.                 | Freq. [MHz] | Peak Level (dBuV/m) | Duty cycle factor [dB] | Average value (dBuV/m) | Limit [dBuV/m] | Margin [dB] | Trace | Polarity |
| 1                   | 1302.0000   | 34.90               | -9.51                  | 25.39                  | 54.00          | 28.61       | Av    | Vertical |
| 2                   | 1736.0000   | 43.18               | -9.51                  | 33.67                  | 60.83          | 27.16       | Av    | Vertical |
| 3                   | 2170.0000   | 47.22               | -9.51                  | 37.71                  | 60.83          | 23.12       | Av    | Vertical |
| 4                   | 2603.5000   | 45.00               | -9.51                  | 35.49                  | 60.83          | 25.34       | Av    | Vertical |
| 5                   | 3037.0000   | 40.55               | -9.51                  | 31.04                  | 60.83          | 29.79       | Av    | Vertical |
| 6                   | 3471.0000   | 40.91               | -9.51                  | 31.40                  | 60.83          | 29.43       | Av    | Vertical |
| 7                   | 3905.0000   | 44.74               | -9.51                  | 35.23                  | 54.00          | 18.77       | Av    | Vertical |
| 8                   | 4339.0000   | 43.53               | -9.51                  | 34.02                  | 54.00          | 19.98       | Av    | Vertical |

#### Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

|                 |                     |                |            |
|-----------------|---------------------|----------------|------------|
| Product Name:   | CAR ALARM           | Product Model: | 91P        |
| Test By:        | Mike                | Test mode:     | Tx mode    |
| Test Frequency: | 1000 MHz – 5000 MHz | Polarization:  | Horizontal |
| Test Voltage:   | DC 3V               |                |            |



| Suspected Data List |             |                  |             |                |                |             |       |            |
|---------------------|-------------|------------------|-------------|----------------|----------------|-------------|-------|------------|
| NO.                 | Freq. [MHz] | Reading [dBuV/m] | Factor [dB] | Level [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Trace | Polarity   |
| 1                   | 1301.5000   | 57.14            | -22.56      | 34.58          | 74.00          | 39.42       | PK    | Horizontal |
| 2                   | 1735.0000   | 60.01            | -22.07      | 37.94          | 80.83          | 42.89       | PK    | Horizontal |
| 3                   | 2169.5000   | 62.10            | -19.97      | 42.13          | 80.83          | 38.70       | PK    | Horizontal |
| 4                   | 2603.5000   | 67.73            | -18.16      | 49.57          | 80.83          | 31.26       | PK    | Horizontal |
| 5                   | 3037.5000   | 58.70            | -16.34      | 42.36          | 80.83          | 38.47       | PK    | Horizontal |
| 6                   | 3471.3600   | 56.00            | -14.77      | 41.23          | 80.83          | 39.60       | PK    | Horizontal |
| 7                   | 3905.0000   | 59.58            | -13.13      | 46.45          | 74.00          | 27.55       | PK    | Horizontal |
| 8                   | 4339.2000   | 54.21            | -10.85      | 43.36          | 74.00          | 30.64       | PK    | Horizontal |

| Suspected Data List |             |                     |                        |                        |                |             |       |            |
|---------------------|-------------|---------------------|------------------------|------------------------|----------------|-------------|-------|------------|
| NO.                 | Freq. [MHz] | Peak Level (dBuV/m) | Duty cycle factor [dB] | Average value (dBuV/m) | Limit [dBuV/m] | Margin [dB] | Trace | Polarity   |
| 1                   | 1301.5000   | 34.58               | -9.51                  | 25.07                  | 54.00          | 28.93       | Av    | Horizontal |
| 2                   | 1736.0000   | 37.94               | -9.51                  | 28.43                  | 60.83          | 32.40       | Av    | Horizontal |
| 3                   | 2170.0000   | 42.13               | -9.51                  | 32.62                  | 60.83          | 28.21       | Av    | Horizontal |
| 4                   | 2603.5000   | 49.57               | -9.51                  | 40.06                  | 60.83          | 20.77       | Av    | Horizontal |
| 5                   | 3037.0000   | 42.36               | -9.51                  | 32.85                  | 60.83          | 27.98       | Av    | Horizontal |
| 6                   | 3471.0000   | 41.23               | -9.51                  | 31.72                  | 60.83          | 29.11       | Av    | Horizontal |
| 7                   | 3905.0000   | 46.45               | -9.51                  | 36.94                  | 54.00          | 17.06       | Av    | Horizontal |
| 8                   | 4339.0000   | 43.36               | -9.51                  | 33.85                  | 54.00          | 20.15       | Av    | Horizontal |

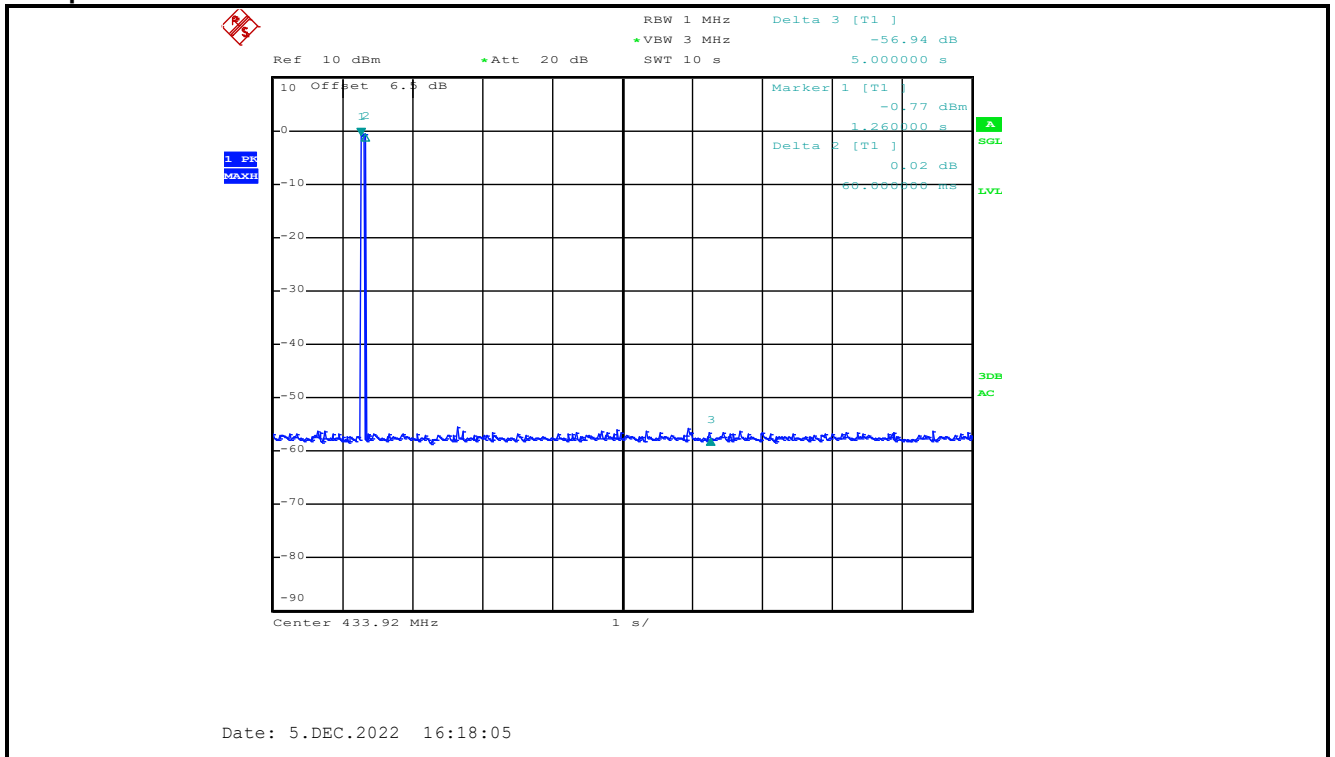
#### Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss – Preamplifier Factor).

## 5.6 Duration Time

| Measurement monitoring                                                                         | Result |
|------------------------------------------------------------------------------------------------|--------|
| The EUT automatically deactivate the transmitter within 0.06 seconds of switch being released. | Pass   |

Test plot as follows:



-----End of report-----