

TEST REPORT

| Report No. | CISRR24080100502 |
|----------------------|--|
| Project No. | CISR240801005 |
| FCC ID | 2AIT9-PG-500 |
| Applicant | SZ PGST Co., Ltd |
| Address | No.9 Building, Huafu Industrial Park, Huachang Road, Longhua District, Shenzhen, Guangdong, China |
| Manufacturer | SZ PGST Co., Ltd |
| Address | No.9 Building, Huafu Industrial Park, Huachang Road, Longhua District, Shenzhen, Guangdong, China |
| Product Name | Alarm Host |
| Trade Mark | - |
| Model/Type reference | PG-500 |
| Listed Model(s) | - |
| Standard | Part 15 Subpart C Section 15.231 |
| Test date | August 2, 2024 ~ August 8, 2024 |
| Issue date | August 9, 2024 |
| Test result | Complied |

Kory Auging

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GenryLong

Approved by: Genry Long

The test results relate only to the tested samples.

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1. <u>REPORT VERSION</u>

| Version No. | Issue date | Description |
|-------------|-------------------------|-------------|
| 00 | August 9, 2024 Original | |
| | | |
| | | |



2. SUMMARY OF TEST RESULT

| Report clause | Test Item | Standard Requirement | Result |
|------------------|-------------------------------|--------------------------|--------|
| 5.1 | Antenna Requirement | 15.203 | PASS |
| 5.2 | AC Conducted Emission | 15.207 | PASS |
| 5.3 | 20 dB Bandwidth | 15.231(c) | PASS |
| 5.4 | Radiated Spurious Emission | 15.231 (e)/15.205/15.209 | PASS |
| 5.5 | Transmitter Deactivation Time | 15.231 | PASS |
| 5.6 | Duty cycle Factor | 15.231 | PASS |

Note:

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



3. <u>SUMMARY</u>

3.1. Product Description

| Main unit information: | | |
|------------------------|-------------------------|--|
| Product Name: | Alarm Host | |
| Trade Mark: | | |
| Model No.: | PG-500 | |
| Listed Model(s): | | |
| Power supply: | y: DC 3.7V from Battery | |
| Hardware version: V2.8 | | |
| Software version: | V1.2 | |

3.2. Radio Specification Description

| Technology: | SRD | | | |
|----------------------|--------------------|--|--|--|
| Modulation: | ASK | | | |
| Operation frequency: | 433.92MHz | | | |
| Channel Number: | 1 | | | |
| Antenna type: | pe: Spring Antenna | | | |
| Antenna gain: | -2.9dBi | | | |



3.3. Modification of EUT

No modifications are made to the EUT during all test items.

3.4. Testing Site

| Laboratory Name | Shenzhen Bangce Testing Technology Co., Ltd. | |
|-------------------------|--|--|
| Laboratory Location | 101, building 10, Yunli Intelligent Park, Shutianpu community, Matian Street, Guangming District, Shenzhen, Guangdong, China | |
| FCC registration number | 736346 | |

3.5. Field Strength Calculation

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

FS (dBuV/m) = RA (dBuV) + AF (dB/m) + CL (dB) - AG (dB)

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

3.6. DISTURBANCE Calculation

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

CD (dBuV) = RA (dBuV) + PL (dB) + CL (dB)

| Where CD = Conducted Disturbance | CL = Cable Attenuation Factor (Cable Loss) |
|----------------------------------|--|
| RA = Reading Amplitude | PL = 10 dB Pulse Limiter Factor |



4. TEST CONFIGURATION

4.1. Test frequency list

| Channel | Frequency (MHz) |
|---------|-----------------|
| CH1 | 433.92 |

4.2. Test mode

| For RF test items: | | | | | |
|--|--|--|--|--|--|
| The engineering prototype is provided with key switching channel to realize EUT continuous transmissionPower setting Default. | | | | | |
| Test Item Test Mode Modulation | | | | | |
| Conducted test item TX mode ASK | | | | | |
| Radiated test item TX mode ASK | | | | | |
| Remark: The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report. | | | | | |

4.3. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

| Ite | m | Equipment name | Trade Name | Model No. |
|-----|---|----------------|------------|--------------|
| 1 | | Adapter | Huawei | HW-05002000C |

4.4. Test sample information

| Туре | sample no. |
|-----------------|-------------------|
| Engineer sample | CISR240801005-S01 |
| Normal sample | CISR240801005-S02 |



4.5. Testing environmental condition

| Туре | Requirement | Actual |
|--------------------|--------------|----------|
| Temperature: | 15~35°C | 25°C |
| Relative Humidity: | 25~75% | 50% |
| Air Pressure: | 860~1060mbar | 1000mbar |

4.6. Statement of the measurement uncertainty

| No. | Test Items | Measurement Uncertainty |
|-----|---|-------------------------|
| 1 | AC Conducted Emission | 1.63dB |
| 2 | Power Spectral Density | 1.34dB |
| 3 | 20dB Bandwidth | 0.002% |
| 4 | Duty cycle | - |
| 5 | Conducted Band Edge and Spurious Emission | 1.93dB |
| 6 | Radiated Band Edge Emission | 3.76dB for 30MHz-1GHz |
| 0 | Radiated Band Edge Emission | 3.80dB for above 1GHz |
| 7 | Radiated Spurious Emission | 3.76dB for 30MHz-1GHz |
| | | 3.80dB for above 1GHz |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.



4.7. Equipment Used during the Test

| Equipment | Manufacture | Model No. | Serial No. | Last cal. | Cal Interval |
|--|---------------|-------------|---------------------|------------|--------------|
| 9*6*6 anechoic chamber | SKET | 9.3*6.3*6 | N/A | 2021.10.15 | 3Year |
| Spectrum analyzer | Agilent | N9020A | MY50530263 | 2024.01.08 | 1Year |
| Receiver | ROHDE&SCHWARZ | ESCI | 100853 | 2024.01.08 | 1Year |
| Spectrum analyzer | R&S | FSV-40N | / | 2024.01.08 | 1Year |
| Bilog Antenna | Schwarzbeck | VULB 9163 | 1463 | 2023.01.09 | 2Year |
| Horn Antenna | SCHWARZBECK | BBHA 9120 D | 2487 | 2023.01.09 | 2Year |
| Active Loop Antenna | SCHWARZBECK | FMZB 1519B | / | 2023.01.09 | 2Year |
| RF Cable | Tonscend | Cable 1 | / | 2024.01.08 | 1Year |
| RF Cable | Tonscend | Cable 2 | / | 2024.01.08 | 1Year |
| RF Cable | SKET | Cable 3 | / | 2024.01.08 | 1Year |
| Pre-amplifier | Tonscend | TAP9K3G32 | AP21G806153 | 2024.01.08 | 1Year |
| Pre-amplifier | Tonscend | TAP01018050 | AP22E806229 | 2024.01.08 | 1Year |
| L.I.S.N.#1 | Schwarzbeck | NSLK8127 | / | 2024.01.08 | 1Year |
| L.I.S.N.#2 | ROHDE&SCHWARZ | ENV216 | 1 | 2024.01.08 | 1Year |
| Horn Antenna | SCHWARZBECK | BBHA9170 | 1130 | 2023.01.09 | 2 Year |
| Preamplifier | Tonscend | TAP18040048 | AP21C806126 | 2024.01.08 | 1Year |
| variable-frequency power source | Pinhong | PH1110 | / | 2024.01.08 | 1Year |
| 6dB Attenuator | SKET | DC-6G | / | N/A | N/A |
| Artificial power network | Schwarzbeck | NSLK8127 | 8127-01096 | 2024.01.08 | 1Year |
| EMI Test Receiver | Rohde&schwarz | ESCI7 | 100853 | 2024.01.08 | 1Year |
| 8-wire Impedance Stabilization Network | Schwarzbeck | NTFM 8158 | 8158-00337 | 2024.01.08 | 1Year |
| Artificial power network | Schwarzbeck | ENV216 | / | 2024.01.08 | 1Year |
| Antenna tower | SKET | Bk-4AT-BS | AT2021040101- V1 | N/A | N/A |



5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

| Standard Applicable | FCC CFR Title 47 Part 15 Subpart C Section 15.203: |
|---------------------|--|
| | An intentional radiator shall be designed to ensure that no antenna other than that furnished by the response-ble 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. |
| Description | The antenna type is a PCB antenna, Refer to the below antenna photo. |

Remark: The antenna gain is provided by the customer , if the data provided by the customer is not accurate, Shenzhen Bangce Testing Technology Co., Ltd. does not assume any responsibility.

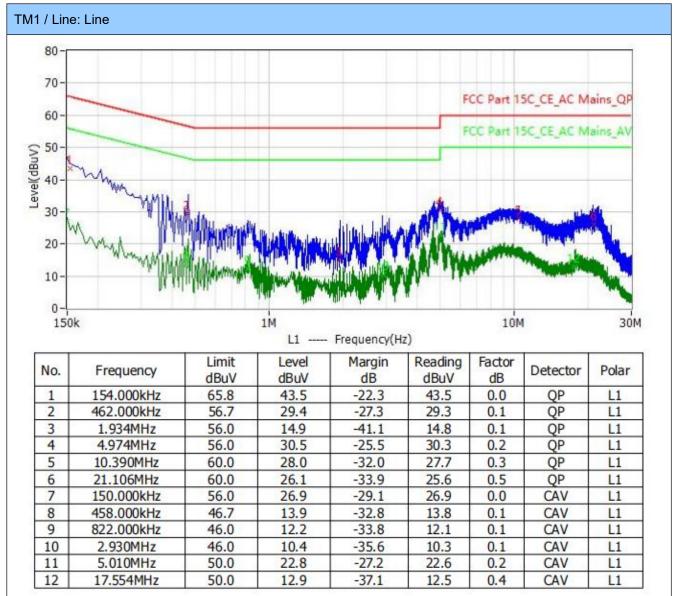


5.2. AC Conducted Emission

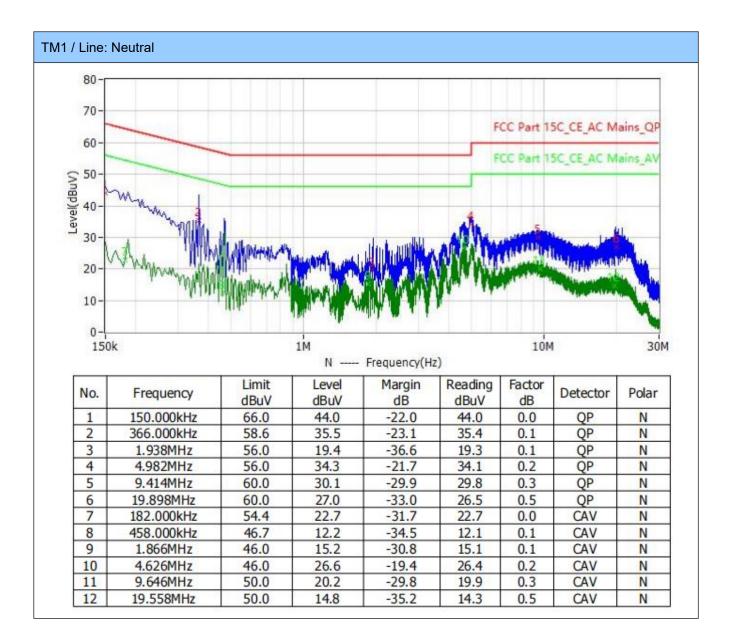
| Limit: | FCC CFR Title 47 Part 15 Subpart C Section 15.207 | | |
|----------------------------|---|--------------------------|------------------------|
| | | Limit (dBuV) | |
| | Frequency range (MHz) | Quasi-peak | Average |
| | 0.15-0.5 | 66 to 56* | 56 to 46* |
| | 0.5-5 | 56 | 46 |
| | 5-30 | 60 | 50 |
| | * Decreases with the logarith | m of the frequency. | |
| <u>Test configuration:</u> | Shielding Room Vertical Reference Ground Plane | | eiver |
| | | Ground Reference Plane 🔶 | |
| Test procedure: | The EUT was setup according to ANSI C63.10 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. | | |
| | 3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. | | |
| | 4. The peripheral devices are also connected to the main power through a LISN. (Refer to the block diagram of the test setup and photographs) | | |
| | Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source. | | |
| | The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. | | |
| | Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz. | | |
| | | | ere maximized by cable |
| <u>Test mode:</u> | Refer to the clause 4.3 | | |
| Result: | Passed | | |



Test Data









5.3. 20 dB Bandwidth

| <u>Limit:</u> | 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. Bandwidth is determined at the points 20 dB down from the modulated carrier. |
|------------------------|---|
| Test configuration: | Spectrum Analyzer EUT Non-Conducted Table |
| <u>Test procedure:</u> | Ground Reference Plane ← 1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously 3. Use the following spectrum analyzer settings: Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a Test channel RBW ≥ 1% of the 20 dB bandwidth, VBW ≥ RBW Sweep = auto, Detector function = peak, Trace = max hold 4. Measure and record the results in the test report. |
| <u>Test mode:</u> | Refer to the clause 4.3 |
| Result: | Passed |

| Center Frequency of operation(MHz) | Maximum allowed bandwidth(kHz) | Measured 20dB Bandwidth(kHz) | Result |
|---------------------------------------|--------------------------------|---------------------------------|--------|
| 433.9164 | 1084.8 | 263.8 | PASS |



| Agilent Spectrum Analyzer - Occupie μα RF 50 Ω Ai x dB -20.00 dB | Cente | SENSE:INT r Freq: 433.920000 MHz ree Run Avg Hold : 10 dB | ⚠ ALIGN OFF 03:14:48 PM Aug Radio Std: Non I:>10/10 Radio Device: I | e Peak Search |
|--|------------------------|--|--|-------------------------|
| 10 dB/div Ref 10.00 d Log | Bm | | Mkr1 433.9164 2.3189 | |
| -80.0 Center 433.9 MHz #Res BW 30 kHz | | VBW 100 kHz | Span 30 Sweep | 0 kHz 1 ms |
| Occupied Bandwi Transmit Freq Error x dB Bandwidth | 253.39 kHz | Total Power OBW Power x dB | 3.79 dBm 99.00 % -20.00 dB | |
| 🛃 start 🛛 📭 🖉 🖉 🔍 | I Agilent Spectrum Ana | | | 2 🗘 🗞 🕫 🙀 😰 🔒 💷 3:14 PM |

5.4. Radiated Spurious Emission

Limit:

FCC CFR Title 47 Part 15 Subpart C Section 15.209

| Frequency | Limit (dBuV/m) | Value |
|----------------------|-------------------|------------|
| 0.009 MHz ~0.49 MHz | 2400/F(kHz) @300m | Quasi-peak |
| 0.49 MHz ~ 1.705 MHz | 24000/F(kHz) @30m | Quasi-peak |
| 1.705 MHz ~30 MHz | 30 @30m | Quasi-peak |

Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3

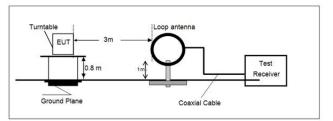
Limit dBuV/m @3m = Limit dBuV/m @30m +40*log(30/3)

| Frequency | Limit (dBuV/m @3m) | Value |
|---------------|--------------------|------------|
| 30MHz~88MHz | 40.00 | Quasi-peak |
| 88MHz~216MHz | 43.50 | Quasi-peak |
| 216MHz~960MHz | 46.00 | Quasi-peak |
| 960MHz~1GHz | 54.00 | Quasi-peak |
| Above 1GHz | 54.00 | Average |
| | 74.00 | Peak |

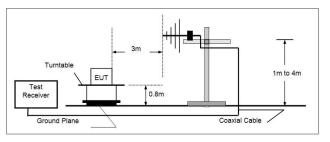
| Fundamental frequency (MHz) | Field strength of fundamental (microvolts/meter) | Field strength of spurious emissions (microvolts/meter) |
|--------------------------------|---|--|
| 40.66-40.70 | 2,250 | 225 |
| 70-130 | 1,250 | 125 |
| 130-174 | ¹ 1,250 to 3,750 | ¹ 125 to 375 |
| 174-260 | 3,750 | 375 |
| 260-470 | ¹ 3,750 to 12,500 | ¹ 375 to 1,250 |
| Above 470 | 12,500 | 1,250 |

Test configuration:

9kHz~30MHz



30 MHz \sim 1 GHz





| | Above 1 GHz |
|-------------------|--|
| | Antenna (Boresight) tower Horn antenna UT 1 ~ 4m Spectrum analyzer 1.5m 30cm Pre-amp |
| Test procedure: | 1. The EUT was setup and tested according to ANSI C63.10. |
| | 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level. |
| | The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower. |
| | 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines. |
| | Set to the maximum power setting and enable the EUT transmit continuously. |
| | 6. Use the following spectrum analyzer settings |
| | a) Span shall wide enough to fully capture the emission being measured; |
| | b) Below 1 GHz: |
| | RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold; |
| | If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. |
| | c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement |
| | d) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=Average, Trace=RMS for Average measurement |
| <u>Test mode:</u> | Refer to the clause 4.3 |
| Result: | Passed |

Note:

- 1) Level= Reading + Factor/Transd; Factor/Transd =Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level- Limit
- Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

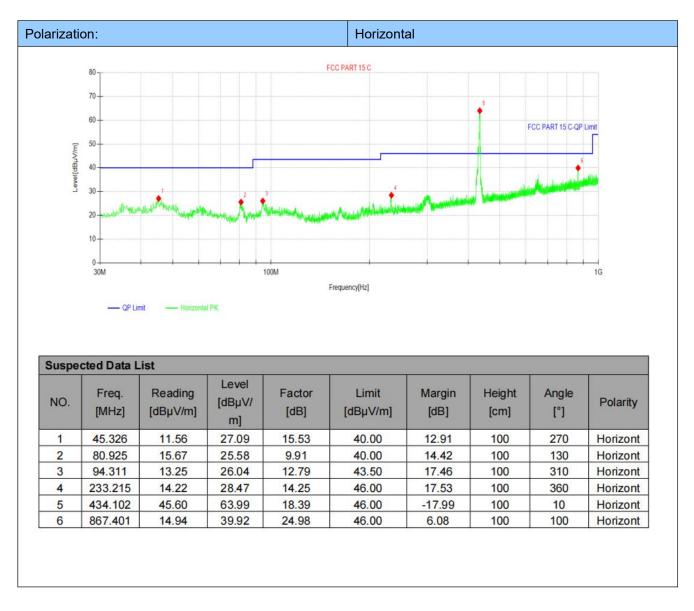
<u>For 9 kHz ~ 30 MHz</u>

The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.



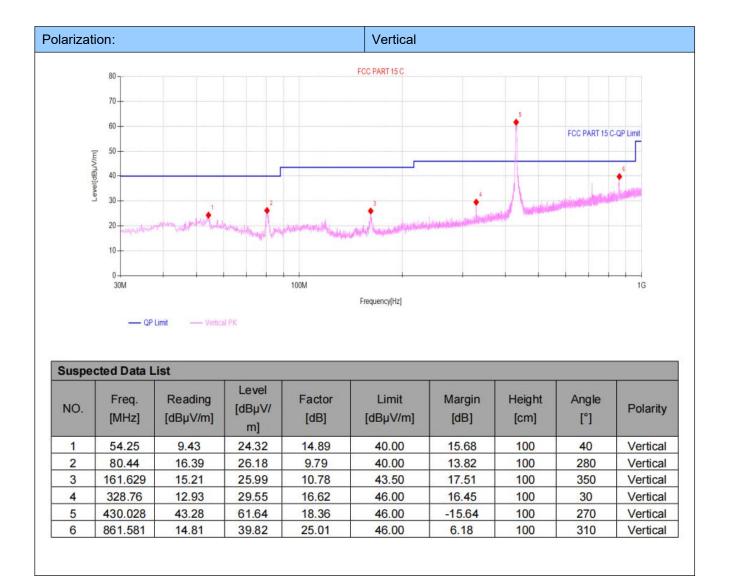
For 30 MHz ~ 1000 MHz

Have pre-scan all test channel, found CH1 which it was worst case, so only show the worst case's data on this report.



| | Fundamental and Harmonics Result | | | | | | |
|-----------|----------------------------------|--|----------|-----------|--------|------------|--|
| Frequency | Peak Level | Peak Level AV Factor(dBμV/m) Average Level Limit(dBμV/m) Limit(dBμV/m) | | | | | |
| (MHz) | (dBµV/m) | (see Section 5.4) | (dBµV/m) | (average) | (Peak) | Conclusion | |
| 434.102 | 63.99 | -10.12 | 53.87 | 60.81 | 80.81 | PASS | |
| 867.410 | 39.92 | -10.12 | 29.87 | 40.81 | 60.81 | PASS | |





| Fundamental and Harmonics Result | | | | | | |
|----------------------------------|------------|-------------------|---------------|---------------|---------------|------------|
| Frequency | Peak Level | AV Factor(dBµV/m) | Average Level | Limit(dBµV/m) | Limit(dBµV/m) | Conclusion |
| (MHz) | (dBµV/m) | (see Section 5.4) | (dBµV/m) | (average) | (Peak) | Conclusion |
| 430.02 | 61.64 | -10.12 | 51.52 | 60.70 | 80.70 | PASS |
| 861.58 | 39.82 | -10.12 | 29.70 | 40.70 | 60.70 | PASS |



For 1 GHz ~ 5 GHz

| Test channel:433.92MHz | | | | | | | | | |
|------------------------|-------------------|--------------------------|-------------------------|---------------------------|--------------------------------|-------------------|----------------|---------|------------|
| Freq. (MHz) | Reading (dBuv) | Ant. Factor (dB/m) | Cable Factor (dB) | Pre- amplifier (dB) | Correction Factor (dB/m) | Limit (dBuV/m) | Margin (dB) | Remark | Polarity |
| 1204.00 | 68.58 | 30.26 | 4.09 | 38.29 | -3.94 | 74 | 9.36 | Peak | Horizontal |
| 1204.00 | 49.20 | 30.26 | 4.09 | 38.29 | -3.94 | 54 | 8.74 | Average | Horizontal |
| 1204.00 | 65.97 | 30.26 | 4.09 | 38.29 | -3.94 | 74 | 11.97 | Peak | Vertical |
| 1204.00 | 51.23 | 30.26 | 4.09 | 38.29 | -3.94 | 54 | 6.71 | Average | Vertical |



5.5. Transmitter Deactivation Time

| <u>Limit:</u> | Devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds. |
|----------------------------|---|
| <u>Test configuration:</u> | Spectrum Analyzer EUT Non-Conducted Table Ground Reference Plane |
| Test procedure: | Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations. |
| Test mode: | Refer to the clause 4.3 |
| Result: | Passed |

| Test Results | | | | | |
|-----------------|--------------------|--|------------|--|--|
| Frequency (MHz) | Activation Time(s) | Limit: not more than 5 seconds of being released (s) | Conclusion | | |
| 433.96 | 0.17 | 5 | PASS | | |



| Keysight Spectrum Analyzer - Swept SA | | | | | |
|--|--|---------------------------|--------------------------------|----------|--|
| RL RF 50 Ω AC | SENSE:I | NT | ALIGN AUTO Avg Type | l og Dwr | 12:27:43 PM Aug 10 TRACE 1 2 |
| arker 2 Δ 170.000 ms | | g: Free Run ten: 30 dB | Avg Hold: | | |
| dB/div Ref 20.00 dBm | | | | | ΔMkr2 170.0 0.209 |
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| enter 433.960000 MHz es BW 100 kHz | #VBW 30 | 0 kHz | | Swe | Span ep 10.00 s (1001 |
| N MODE TRC SCL X | Y | FUNCTION | FUNCTION WIDTH | FL | INCTION VALUE |
| | 0 s2.975 dBm ms (Δ) 0.209 dB | | | | |
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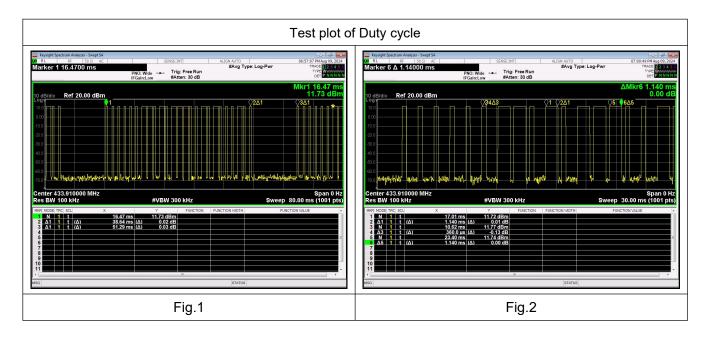


5.6. Duty cycle Factor

| <u>Limit:</u> | No dedicated limit specified in the Rules. |
|----------------------------|--|
| <u>Test configuration:</u> | Spectrum Analyzer EUT Non-Conducted Table |
| | Ground Reference Plane |
| <u>Test procedure:</u> | Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer. Set centre frequency of spectrum analyzer=operating frequency. Set the spectrum analyzer as RBW=100kHz, VBW=300kHz, Span=0Hz, Adjust Sweep=Auto. Repeat above procedures until all frequency measured was complete. |
| Test mode: | Refer to the clause 4.3 |
| Result: | Passed |

Test Data

Ton = 1.14*9+0.36*16=16.02(ms) Tp = 51.29(ms) The duty cycle=16.02/51.29=0.312 Average Correction Factory = 20log (Ton/Tp) =20log (0.312) = -10.12dB





6. <u>TEST SETUP PHOTOS</u>

Please refer to separated files for Test Setup Photos of the EUT.

7. EXTERNAL AND INTERNAL PHOTOS

7.1. External Photos

Please refer to separated files for External Photos of the EUT.

7.2. Internal photos

Please refer to separated files for Internal Photos of the EUT.

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