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FCC TEST REPORT

FCC CFR Title 47 Part 15 Subpart B:2017 Class A /ICES 003 Issue 6 2017 Class A

Report No.: S202004217556E01

Report Version: V02

Issue Date: 12-27-2021

Applicant: Hesai Technology Co., Ltd.
Address: No. 2 Building, No. 468 Xinlai Road, Jiading District,
Shanghai City, China

Application Type: FCC ID Certification
FCC ID: 2ASO2PANDAR64
Product: Rangefinder
Model No.: Pandar64, Pandar40 2.0, Pandar20A, Pandar20B
FCC Rule Part(s): CFR Title 47 Part 15 Subpart B:2017 Class A
IC Rule Part(s): ICES 003 Issue 6 2017 Class A
Test Procedure(s): ANSI C63.4: 2014
Result: Pass
Test Date: April 17, 2020

Compiled By

Line Chen

(Line Chen)

Senior Test Engineer

Approved By

Kerry Zhou

(Kerry Zhou)

Senior Test Engineer

The test results relate only to the samples tested.

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 ANSI C63.4-2014. Test results reported herein relate only to the item(s) tested.

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Revision History

| Report No. | Version | Description | Issue Date |
|------------------|---------|---|------------|
| S202004217556E01 | Rev. 01 | / | 05-08-2020 |
| S202004217556E01 | Rev. 02 | 1、Revised the name and address of the applicant 2、Deleted the EUT photos | 12-27-2021 |

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1. General Information

| | |
|--------------------------------|---|
| Applicant: | Hesai Technology Co., Ltd. |
| Applicant Address: | No. 2 Building, No. 468 Xinlai Road, Jiading District, Shanghai City, China |
| Manufacturer: | Hesai Technology Co., Ltd. |
| Manufacturer Address: | No. 2 Building, No. 468 Xinlai Road, Jiading District, Shanghai City, China |
| Factory: | Hesai Technology Co., Ltd. |
| Factory Address: | No. 2 Building, No. 468 Xinlai Road, Jiading District, Shanghai City, China |
| Test Site: | Fanguang Inspection & Testing Co., Ltd. Wuxi Branch |
| Test Site Address: | 200 Linghu Avenue, Xinwu District, Wuxi City, China |
| Test Device Serial No.: | N/A <input checked="" type="checkbox"/> Production <input type="checkbox"/> Pre-Production <input type="checkbox"/> Engineering |

2. INTRODUCTION

2.1. Scope


Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

2.2. Fangguang Test Location

These measurement tests were performed at the Fangguang Inspection and testing Co.,Ltd. Wuxi Branch located at 200 Linghu Avenue, Xinwu District, Wuxi City. The detailed description of the measurement facility was found to be in compliance with the requirements of ANSI C63.4-2014.

3. PRODUCT INFORMATION

3.1. Equipment Description

| | |
|----------------------|---|
| Product Name: | Rangefinder |
| Model Name: | Pandar64, Pandar40 2.0, Pandar20A, Pandar20B |
| Model difference: | <p>1. We declare that Pandar40 2.0、Pandar20A and Pandar20B share a common structure with Pandar64. They all use the same laser emitter and optical design.</p> <p>2. The energy of single laser pulse is the same for these products.</p> <p>3. The main difference is that Pandar40 2.0 removes 24 laser channels and Pandar20A/B removes 44 laser channels compared to Pandar64; Pandar20A and Pandar20B both have 20 emitting channels but their distribution (i.e. the emitting angles) are different; Laser emitting cycle remains unchanged while the unlighted laser channels still occupy the period. Another, Pandar64 is the appearance such as fin style heat-sink on top cover and mounting holes on the bottom. Pandar40 2.0, Pandar20A and Pandar20B have no fin style-sink on top cover.</p> |
| Main Test Model: | Pandar64 |
| Input Voltage Range: | DC 9-48V, 3.5A, 22W |
| Trade Mark: |  “HESAI” “禾赛” |
| Adapter Information: | Model: GST40A12 Rated Input: AC 100-240V, 50/60Hz , Max. Input current: 1.0A, Rated Output: DC 12V, 3.34A |

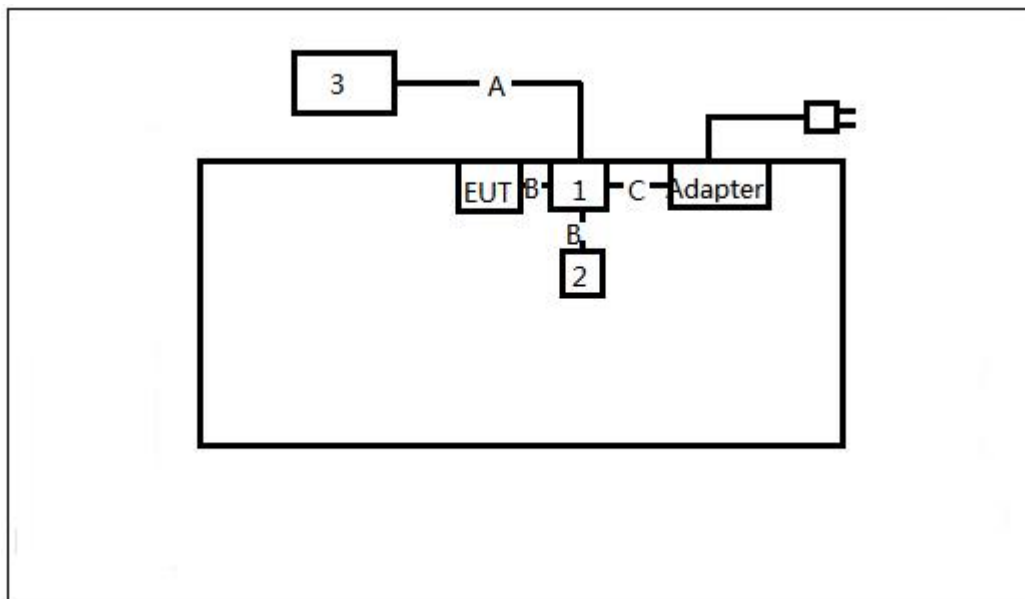
3.2. Configuration of Tested System

The **Rangefinder** was tested per the guidance FCC CFR Title 47 Part 15 Subpart B:2017 Class A and ANSI C63.4: 2014 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

3.3. Test Mode

| Test Mode | |
|-----------|---|
| EMI Mode | Mode 1: power on and the sample is in real-time detection state |

Connection Diagram (Mode 1)



| Signal Cable Type | Signal Cable Description | |
|-------------------|--------------------------|-------------------|
| A | LAN Cable | Non-Shielded, >6m |
| B | Signal cable | Shielded, 2m |
| C | power cable | Shielded, 2m |

3.4. Description of Auxiliary Equipment

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

| Product | Manufacturer | Model No. | Serial No. | Power Cord |
|---------|----------------|-----------|---------------|------------|
| 1 | Connection box | HESAI | / | / |
| 2 | GPS antenna | / | GPSU7/U28 | / |
| 3 | Notebook | DELL | Latitude 3490 | / |

3.5. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

4. DESCRIPTION OF TEST

4.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical Equipment in the Range of 9kHz to 18GHz (ANSI C63.4-2014) was used in the measurement of the **Rangefinder**.

Deviation from measurement procedure.....None

4.2. AC Line Conducted Emissions

The line-conducted facility is located inside an shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150 kHz to 30 MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9 kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or resolution, clock or data exchange speed, scrolling H pattern to the EUT and/or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site.

4.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30 MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30 MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 0.8 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, mode of operation, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. According to 3dB beam-width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

5. LIST OF USED TEST EQUIPMENT

Conducted Emissions

| Instrument | Manufacturer | Type No. | Asset No. | Cali. Interval | Cali. Due Date |
|--------------------|--------------|----------|-----------------|----------------|----------------|
| EMI Test Receiver | R&S | ESR3 | FWXGJC-2016-181 | 1 year | 2020/05/16 |
| Two-Line V-Network | R&S | ENV 216 | FWXGJC-2016-182 | 1 year | 2021/03/15 |
| AMN | AFJ | LT32C/10 | FWXGJC-2016-179 | 1 year | 2021/04/29 |
| Thermohygrometer | Yuhuaze | HTC-1 | FWXDA-2016-385 | 1 year | 2021/02/28 |

Radiated Emission

| Instrument | Manufacturer | Type No. | Asset No. | Cali. Interval | Cali. Due Date |
|------------------------|--------------|-----------------|--------------------|----------------|----------------|
| Loop Antenna | Schwarzbeck | FMZB 1519B | FWXGJC-2018-015 | 1 year | 2021/08/23 |
| Bi-Log Antenna | R&S | HL562E | FWXGJC-2016-267-06 | 3 year | 2021/03/21 |
| Broadband Horn Antenna | R&S | HF907 | FWXGJC-2016-267-07 | 1 year | 2021/04/06 |
| Broadband Horn Antenna | Schwarzbeck | BBHA9170 | FWXGJC-2018-016 | 1 year | 2021/08/19 |
| EMI Receiver | R&S | ESR26 | FWXGJC-2016-267-01 | 1 year | 2020/05/16 |
| Pre-Amplifier | R&S | SCU-18D | FWXGJC-2016-267-05 | 1 year | 2021/04/09 |
| Pre-Amplifier | R&S | EMC184055 SE | | | 2020/08/09 |
| Thermohygrometer | Yuhuaze | HTC-1 | FWXDA-2016-386 | 1 year | 2021/02/28 |
| Anechoic Chamber | Aimuke | EMCCT-3 | FWXGJC-2016-270 | 1 year | 2021/04/10 |

| Test Software | Manufacturer | Version | Asset No. | Function |
|-------------------|--------------|----------|----------------|---------------|
| EMI Test Software | tonscend | V2.5.0.0 | FWXWA-2018-004 | Emission Test |

6. TEST RESULT

6.1. Summary

| FCC Part Section(s) | IC Part Section(s) | Test Description | Test Result |
|--|----------------------------------|---------------------|-------------|
| FCC CFR Title 47 Part 15 Subpart B:2017 15.107 Class A, ANSI C63.4: 2014 | ICES 003 Issue 6 2017 Class A | Conducted Emissions | Pass |
| FCC CFR Title 47 Part 15 Subpart B:2017 15.109 Class A, ANSI C63.4: 2014 | ICES 003 Issue 6 2017 Class A | Radiated Emissions | Pass |

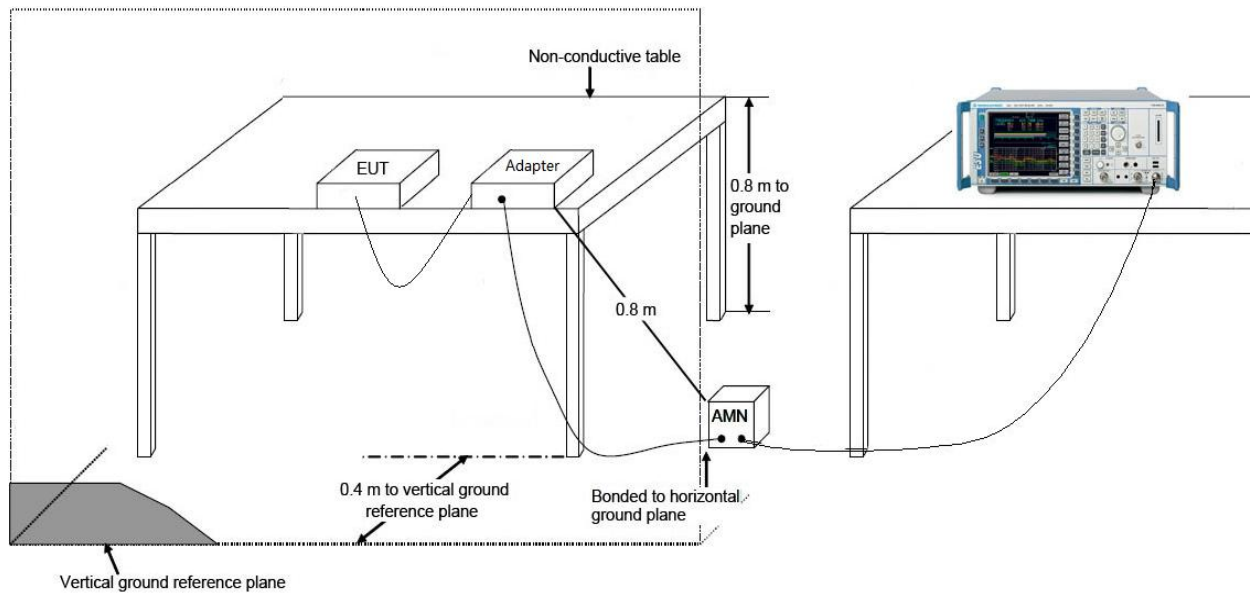
6.2. Conducted Emission Measurement

6.2.1. Test Limit

| FCC Part 15.107 Class A Limits | | |
|--------------------------------|-----------------|-----------------|
| Frequency (MHz) | QP (dB μ V) | AV (dB μ V) |
| 0.15 - 0.50 | 79 | 66 |
| 0.50 - 30 | 73 | 60 |

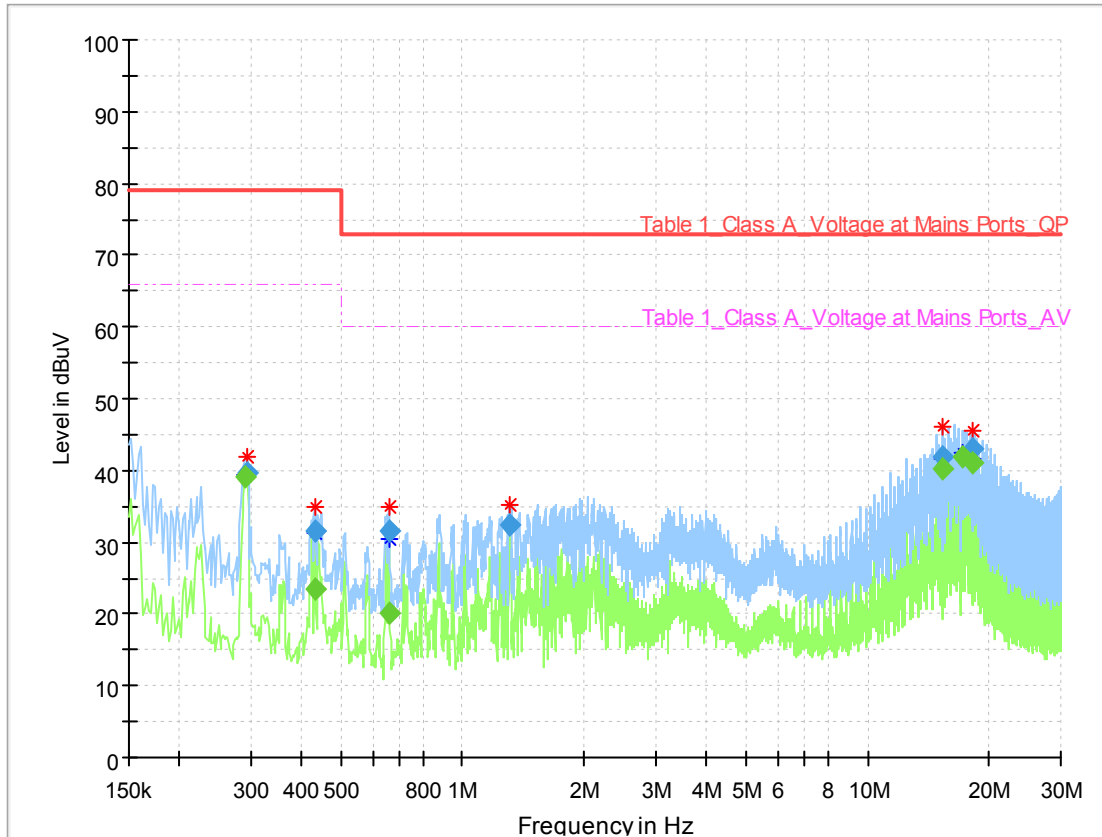
Note 1: The lower limit shall apply at the transition frequencies.

6.2.2. Test Setup



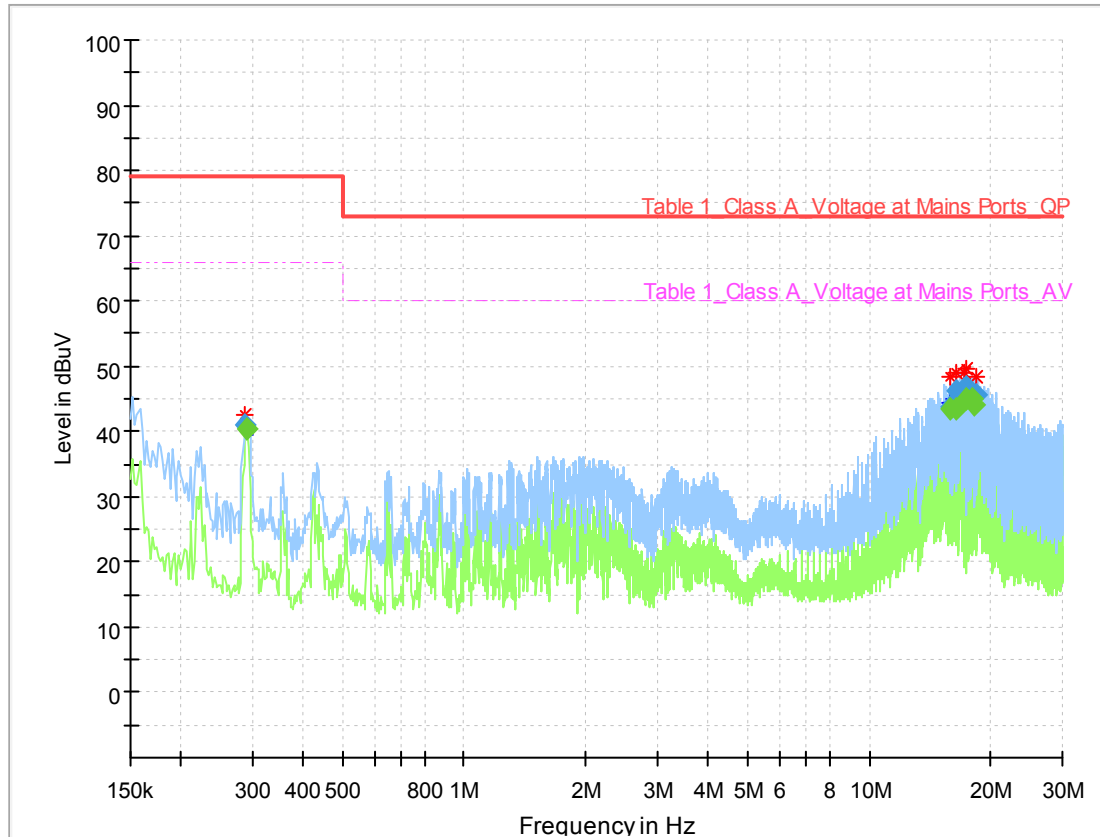
6.2.3. Test Result of Conducted Emissions

| | | | |
|--------------|----------------------|-----------|--------------------|
| EUT: | Rangefinder | Polarity: | LINE |
| Model: | Pandar64 | SN: | PA6431C3579531C352 |
| Mode: | Mode 1 | Voltage: | 120V/60Hz |
| Environment: | Temp: 25°C; Humi:60% | Engineer: | Line Chen |



| Frequency (MHz) | QuasiPeak (dBuV) | Average (dBuV) | Limit (dBuV) | Margin (dB) | Meas. Time | Bandwidth (kHz) | Line | Filter | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|------------|-----------------|------|--------|------------|
| 0.292000 | --- | 39.14 | 66.00 | 26.86 | 1000. | 9.000 | L1 | ON | 10.0 |
| 0.294000 | 39.66 | --- | 79.00 | 39.34 | 1000. | 9.000 | L1 | ON | 10.0 |
| 0.432000 | --- | 23.32 | 66.00 | 42.68 | 1000. | 9.000 | L1 | ON | 10.0 |
| 0.432000 | 31.52 | --- | 79.00 | 47.48 | 1000. | 9.000 | L1 | ON | 10.0 |
| 0.658000 | --- | 20.19 | 60.00 | 39.81 | 1000. | 9.000 | L1 | ON | 10.0 |
| 0.658000 | 31.48 | --- | 73.00 | 41.52 | 1000. | 9.000 | L1 | ON | 10.0 |
| 1.314000 | 32.46 | --- | 73.00 | 40.54 | 1000. | 9.000 | L1 | ON | 9.9 |
| 15.294000 | --- | 40.18 | 60.00 | 19.82 | 1000. | 9.000 | L1 | ON | 9.8 |
| 15.296000 | 41.81 | --- | 73.00 | 31.19 | 1000. | 9.000 | L1 | ON | 9.8 |
| 17.092000 | --- | 41.81 | 60.00 | 18.19 | 1000. | 9.000 | L1 | ON | 9.8 |
| 18.120000 | --- | 41.10 | 60.00 | 18.90 | 1000. | 9.000 | L1 | ON | 9.8 |
| 18.120000 | 43.07 | --- | 73.00 | 29.93 | 1000. | 9.000 | L1 | ON | 9.8 |

| | | | |
|--------------|----------------------|-----------|--------------------|
| EUT: | Rangefinder | Polarity: | NEUTRAL |
| Model: | Pandar64 | SN: | PA6431C3579531C352 |
| Mode: | Mode 1 | Voltage: | 120V/60Hz |
| Environment: | Temp: 25°C; Humi:60% | Engineer: | Line Chen |



| Frequency (MHz) | QuasiPeak (dBuV) | Average (dBuV) | Limit (dBuV) | Margin (dB) | Meas. Time | Bandwidth (kHz) | Line | Filter | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|------------|-----------------|------|--------|------------|
| 0.288000 | 41.07 | --- | 79.00 | 37.93 | 1000. | 9.000 | N | ON | 9.9 |
| 0.290000 | --- | 40.45 | 66.00 | 25.55 | 1000. | 9.000 | N | ON | 9.9 |
| 15.804000 | 43.66 | --- | 73.00 | 29.34 | 1000. | 9.000 | N | ON | 9.9 |
| 15.808000 | --- | 43.59 | 60.00 | 16.41 | 1000. | 9.000 | N | ON | 9.9 |
| 16.324000 | --- | 43.45 | 60.00 | 16.55 | 1000. | 9.000 | N | ON | 9.9 |
| 16.324000 | 46.16 | --- | 73.00 | 26.84 | 1000. | 9.000 | N | ON | 9.9 |
| 17.094000 | 46.45 | --- | 73.00 | 26.55 | 1000. | 9.000 | N | ON | 9.9 |
| 17.350000 | --- | 45.06 | 60.00 | 14.94 | 1000. | 9.000 | N | ON | 9.9 |
| 17.350000 | 46.91 | --- | 73.00 | 26.09 | 1000. | 9.000 | N | ON | 9.9 |
| 17.864000 | --- | 44.90 | 60.00 | 15.10 | 1000. | 9.000 | N | ON | 9.9 |
| 18.120000 | --- | 44.12 | 60.00 | 15.88 | 1000. | 9.000 | N | ON | 9.9 |
| 18.380000 | 45.61 | --- | 73.00 | 27.39 | 1000. | 9.000 | N | ON | 9.9 |

6.3. Radiated Emission Measurement

6.3.1. Test Limit

| FCC Part 15.109 Class A Limits | | |
|--------------------------------|--------------|----------------------|
| Frequency (MHz) | Distance (m) | Level (dB μ V/m) |
| 30 - 88 | 3 | 50 |
| 88 - 216 | 3 | 53.5 |
| 216 - 960 | 3 | 56 |
| Above 960 | 3 | 60 |

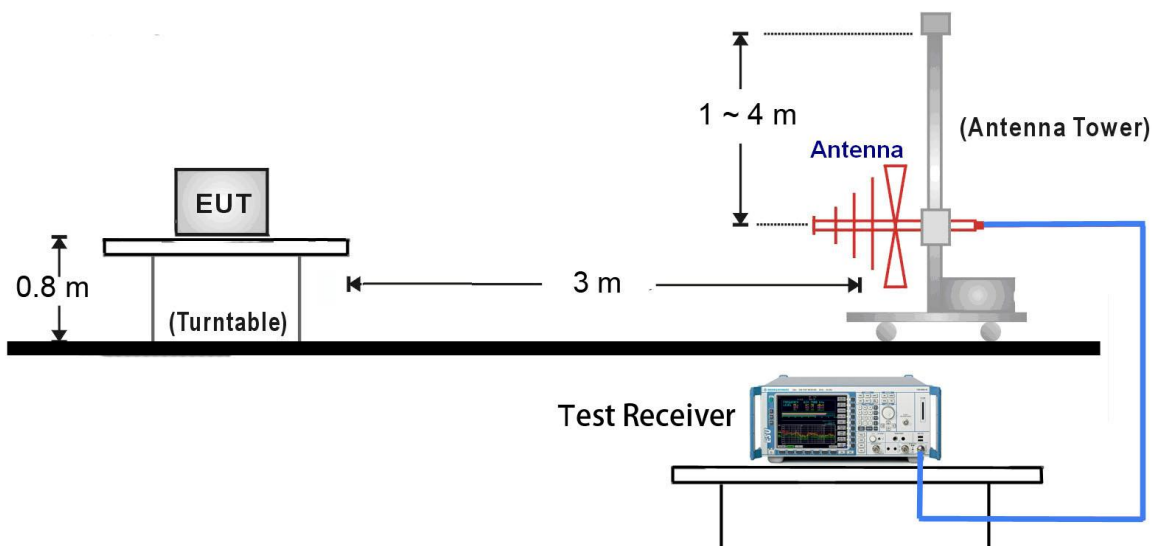
Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Note 3: E field strength (dB μ V/m) = 20 log E field strength (μ V/m)

6.3.2. Test Setup

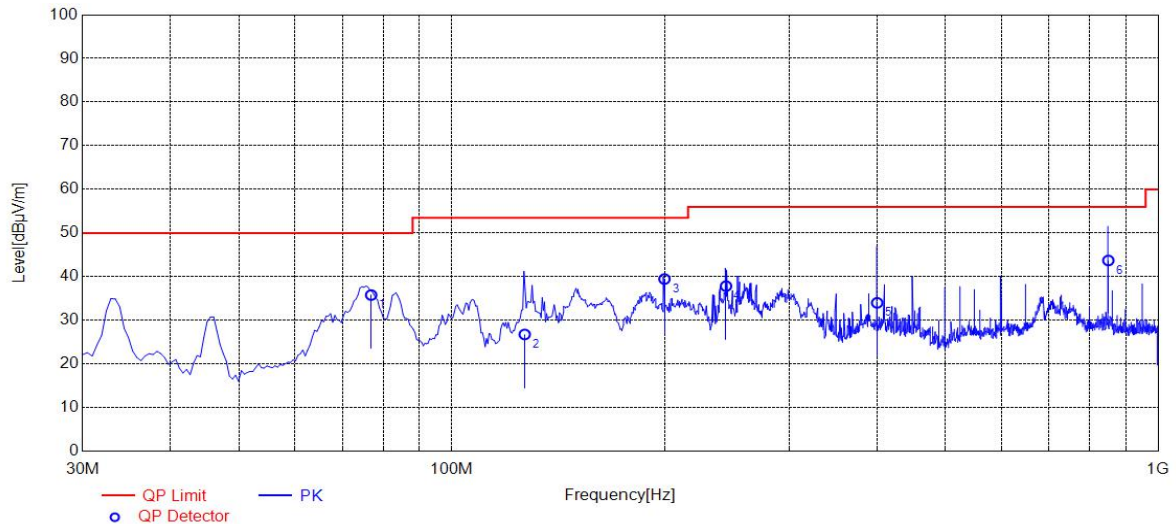
30MHz ~ 1GHz Test Setup:



6.3.3. Test Result of Radiated Emissions

| | | | |
|--------------|----------------------|-----------|--------------------|
| EUT: | Rangefinder | Polarity: | Horizontal |
| Model: | Pandar64 | SN: | PA6431C3579531C352 |
| Mode: | Mode 1 | Voltage: | 120V/60Hz |
| Environment: | Temp: 25°C; Humi:60% | Engineer: | Line Chen |

Test Graph

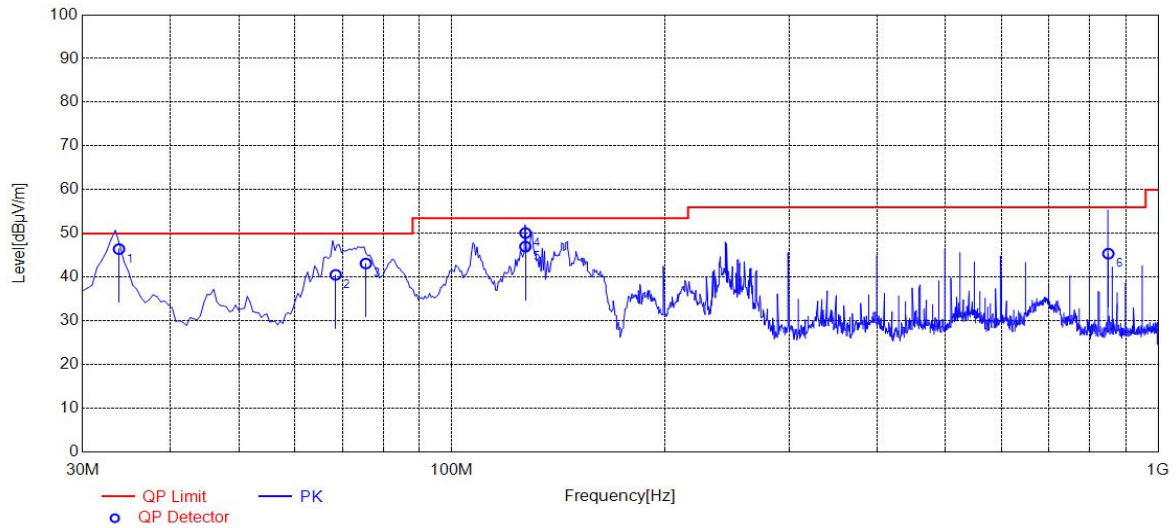


Final Data List

| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|----------------|----------------|----------------------|----------------------|-------------------|----------------|--------------|------------|
| 1 | 76.8650 | 9.85 | 35.78 | 50.00 | 14.22 | 199.9 | 171.1 | Horizontal |
| 2 | 126.805 | 11.47 | 26.76 | 53.50 | 26.74 | 199.9 | 166.2 | Horizontal |
| 3 | 199.989 | 8.99 | 39.45 | 53.50 | 14.05 | 199.9 | 62.9 | Horizontal |
| 4 | 244.442 | 11.29 | 37.83 | 56.00 | 18.17 | 99.9 | 17 | Horizontal |
| 5 | 400.014 | 16.25 | 34.00 | 56.00 | 22.00 | 99.9 | -0.1 | Horizontal |
| 6 | 849.965 | 23.82 | 43.71 | 56.00 | 12.29 | 99.9 | 360.1 | Horizontal |

| | | | |
|--------------|----------------------|-----------|--------------------|
| EUT: | Rangefinder | Polarity: | Vertical |
| Model: | Pandar64 | SN: | PA6431C3579531C352 |
| Mode: | Mode 1 | Voltage: | 120V/60Hz |
| Environment: | Temp: 25°C; Humi:60% | Engineer: | Line Chen |

Test Graph

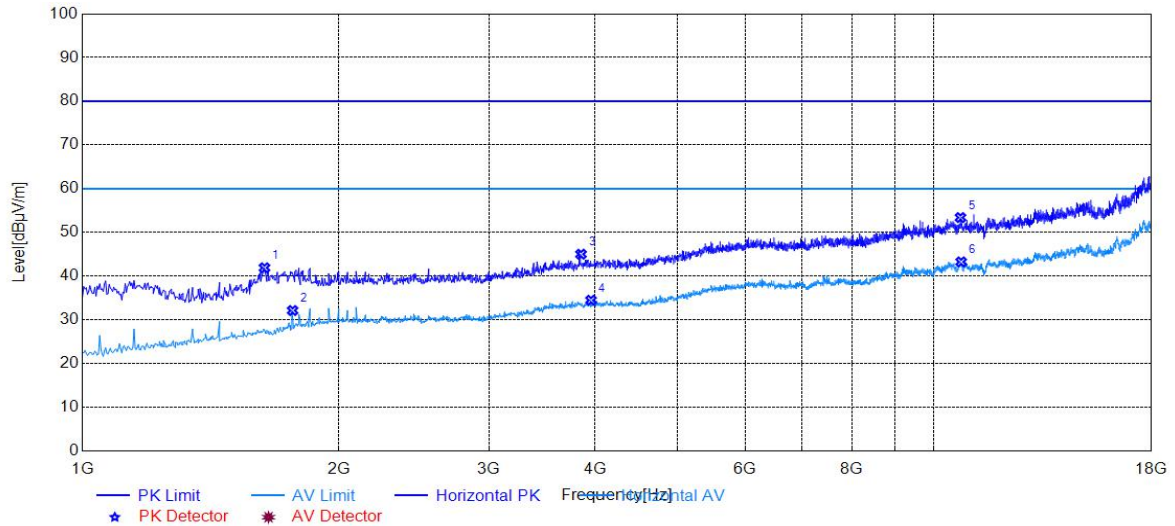


Final Data List

| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|-------------|-------------------|-------------------|----------------|-------------|-----------|----------|
| 1 | 33.7882 | 17.67 | 46.42 | 50.00 | 3.58 | 99.9 | 357.3 | Vertical |
| 2 | 68.4799 | 8.58 | 40.53 | 50.00 | 9.47 | 99.9 | 360.1 | Vertical |
| 3 | 75.5473 | 9.69 | 43.12 | 50.00 | 6.88 | 99.9 | -0.1 | Vertical |
| 4 | 127.101 | 11.48 | 50.09 | 53.50 | 3.41 | 99.9 | 360 | Vertical |
| 5 | 127.083 | 11.48 | 46.99 | 53.50 | 6.51 | 99.9 | -0.1 | Vertical |
| 6 | 849.965 | 23.82 | 45.38 | 56.00 | 10.62 | 199.8 | 26 | Vertical |

| | | | |
|--------------|----------------------|-----------|--------------------|
| EUT: | Rangefinder | Polarity: | Horizontal |
| Model: | Pandar64 | SN: | PA6431C3579531C352 |
| Mode: | Mode 1 | Voltage: | 120V/60Hz |
| Environment: | Temp: 25°C; Humi:60% | Engineer: | Line Chen |

Test Graph

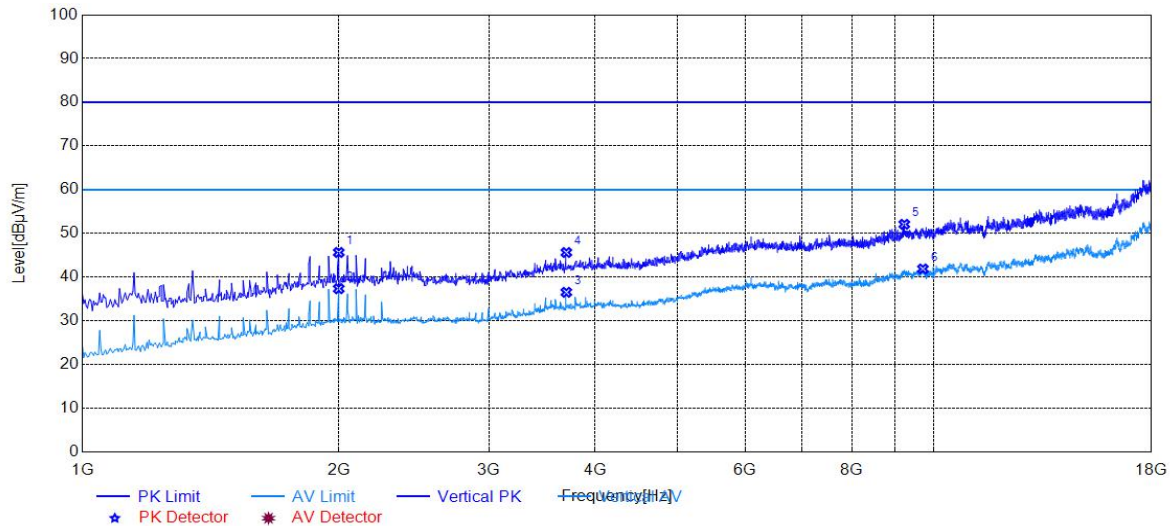


Final Data List

| NO. | Freq. [MHz] | Factor [dB] | Value [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Detection Mode |
|-----|-------------|-------------|----------------|----------------|-------------|-------------|-----------|----------------|
| 1 | 1635.80 | 41.91 | -2.04 | 80.00 | 38.09 | 100 | 228 | PK |
| 2 | 1765.00 | 32.14 | -0.80 | 60.00 | 27.86 | 100 | 313 | AV |
| 3 | 3849.20 | 45.02 | 4.93 | 80.00 | 34.98 | 100 | 173 | PK |
| 4 | 3954.60 | 34.49 | 5.02 | 60.00 | 25.51 | 100 | 137 | AV |
| 5 | 10737.6 | 53.40 | 16.61 | 80.00 | 26.60 | 100 | 89 | PK |
| 6 | 10758.0 | 43.26 | 16.59 | 60.00 | 16.74 | 100 | 328 | AV |

| | | | |
|--------------|----------------------|-----------|--------------------|
| EUT: | Rangefinder | Polarity: | Vertical |
| Model: | Pandar64 | SN: | PA6431C3579531C352 |
| Mode: | Mode 1 | Voltage: | 120V/60Hz |
| Environment: | Temp: 25°C; Humi:60% | Engineer: | Line Chen |

Test Graph



Final Data List

| NO. | Freq. [MHz] | Factor [dB] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Detection Mode |
|-----|-------------|-------------|-------------------|-------------------|----------------|-------------|-----------|----------------|
| 1 | 1999.60 | 45.65 | 1.09 | 80.00 | 34.35 | 100 | 21 | PK |
| 2 | 1999.60 | 37.35 | 1.09 | 60.00 | 22.65 | 100 | 170 | AV |
| 3 | 3699.60 | 36.54 | 4.66 | 60.00 | 23.46 | 100 | 28 | AV |
| 4 | 3699.60 | 45.64 | 4.66 | 80.00 | 34.36 | 100 | 25 | PK |
| 5 | 9224.60 | 52.09 | 14.61 | 80.00 | 27.91 | 100 | 64 | PK |
| 6 | 9700.60 | 41.88 | 14.76 | 60.00 | 18.12 | 100 | 188 | AV |

7. CONCLUSION

The data collected relate only the item(s) tested and show that the **Rangefinder**

(Model:Pandar64) has been tested to comply with the requirements specified in §15.107 / §15.109 of the FCC CFR Title 47 Part 15 Subpart B:2017.

_____ The End _____