



# EMC TEST REPORT

**Report No.:** 20240717G13903X-W1

**Product Name:** ACE Thermal Imaging Scope

**FCC ID:** 2BHFB-ACE-00

**Main Model No. :** ACE H50R

**Series Model No. :** ACE H50, ACE S60R, ACE L35

**Trade Name:** Nocpix

**Applicant:** Inlumen Technologies Co., Ltd.

**Address:** Building B3, NO.800 Wangjiang West Road, National High-tech Industry Development District, Hefei, Anhui, China.

**Received Date:** 2024.07.25

**Dates of Testing:** 2024.07.26-2024.08.01

**Issued by:** CCIC Southern Testing Co., Ltd.

**Lab Location:** Electronic Testing Building, No.43, Shahe Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China.

**Tel:** 86-755-26627338    **E-Mail:** manager@ccic-set.com

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## Test Report

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**Model No.** ..... ACE H50R

**Applicant**..... Inlumen Technologies Co., Ltd.

**Applicant Address**..... Building B3, NO.800 Wangjiang West Road, National High-tech Industry Development District, Hefei, Anhui, China.

**Manufacturer**..... Inlumen Technologies Co., Ltd.

**Manufacturer Address**..... Building B3, NO.800 Wangjiang West Road, National High-tech Industry Development District, Hefei, Anhui, China.

**Test Standards**..... 47 CFR Part 15 Subpart B

**Test Result**..... PASS

**Tested by** ..... Sun Jiaohui  
Sun Jiaohui, Test Engineer 2024.08.23

**Reviewed by**..... Chris You  
Chris You, Senior Engineer 2024.08.23

**Approved by**..... Wang Shijie  
Wang Shijie, Manager 2024.08.23



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| Change History |            |                   |
|----------------|------------|-------------------|
| Issue          | Date       | Reason for change |
| 1.0            | 2024.08.23 | First edition     |
|                |            |                   |
|                |            |                   |

## 1. GENERAL INFORMATION

### 1.1 EUT Description

|                  |                                                                                                                                                    |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| EUT Name         | ACE Thermal Imaging Scope                                                                                                                          |
| Hardware Version | V1_1                                                                                                                                               |
| Software Version | V1.07                                                                                                                                              |
| Power supply     | Rechargeable Li-ion Battery<br>Model No: IRB-2<br>Capacity: 3850mAh<br>Rated Voltage: 3.6V<br>Manufacturer: Jinqu Electronics (Zhejiang) Co., Ltd. |
|                  | Built-in Battery<br>Model No: JQ033-201L<br>MAX Charge Voltage: 4.2V<br>Manufacturer: Jinqu Electronics (Zhejiang) Co., Ltd.                       |

*Note 1:* The EUT is a ACE Thermal Imaging Scope; It could support the following operating mode and frequency band: 2.4G WIFI

*Note 2:* The EUT have the following typical setups during the test:

Setup1: 2.4G WIFI + Charger;

Setup2: 2.4G WIFI + Battery;

Setup3: EUT + Notebook PC + DATA;

Setup4: Idle + Charger;

*Note 3:* The ACE H50 have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction, with ACE H50R the difference lies only in the laser module of the different models. The ACE S60R have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction, with ACE H50R the difference lies only in lens focal length and thermal imaging module of the different models. The ACE L35 have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction, with ACE H50R the difference lies only in lens focal length, thermal imaging module and the laser module of the different models.

*Note 4:* All the patterns have been tested and only the worst results are recorded in the report.

*Note 5:* For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



## 1.2 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart B:

| No. | Identity                    | Document Title          |
|-----|-----------------------------|-------------------------|
| 1   | 47 CFR Part 15<br>Subpart B | Radio Frequency Devices |

Test detailed items/section required by FCC rules and results are as below:

| No. | Section | Description        | Result |
|-----|---------|--------------------|--------|
| 1   | 15.107  | Conducted Emission | PASS   |
| 2   | 15.109  | Radiated Emission  | PASS   |

NOTE:

- (1) The EUT has been tested according to 47 CFR Part 15 Subpart B, CLASS B. The test procedure is according to ANSI C63.4:2014.



## 1.3 Facilities and Accreditations

### 1.3.1 Facilities

#### **FCC-Registration No.: CN1283**

CCIC Southern Testing Co., Ltd EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN1283, valid time is until Jun.30, 2025.

#### **ISED Registration: 11185A-1**

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on Aug. 04, 2016, valid time is until Jun.30, 2025.

#### **A2LA Code: 5721.01**

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025. The accreditation certificate number is 5721.01.

### 1.3.2 Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

|                             |              |
|-----------------------------|--------------|
| Temperature (°C):           | 15°C - 35°C  |
| Relative Humidity (%):      | 25% -75%     |
| Atmospheric Pressure (kPa): | 86kPa-106kPa |

### 1.3.3 Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

|                                                   |                   |
|---------------------------------------------------|-------------------|
| Uncertainty of Conducted Emission:                | Uc = 3.2 dB (k=2) |
| Uncertainty of Radiated Emission:<br>(30MHz~1GHz) | Uc = 5.8 dB (k=2) |
| Uncertainty of Radiated Emission:<br>(1~6GHz)     | Uc = 5.1 dB (k=2) |
| Uncertainty of Radiated Emission:<br>(6~18GHz)    | Uc = 5.5 dB (k=2) |



## 2. TEST CONDITIONS SETTING

### 2.1 Test Peripherals

The following is a listing of the EUT and peripherals utilized during the performance of EMC test:

#### Support Equipment:

| Description | Brand name | Model    | Serial No. | FCCID |
|-------------|------------|----------|------------|-------|
| Adapter     | /          | VC56JBCH | /          | /     |

#### Support Cable:

| Description | Shield Type | Ferrite Core | Length |
|-------------|-------------|--------------|--------|
| /           | /           | /            | /      |

### 2.2 Test Mode

The EUT have the following typical setups during the test:

Setup1: 2.4G WIFI + Charger;

Setup2: 2.4G WIFI + Battery;

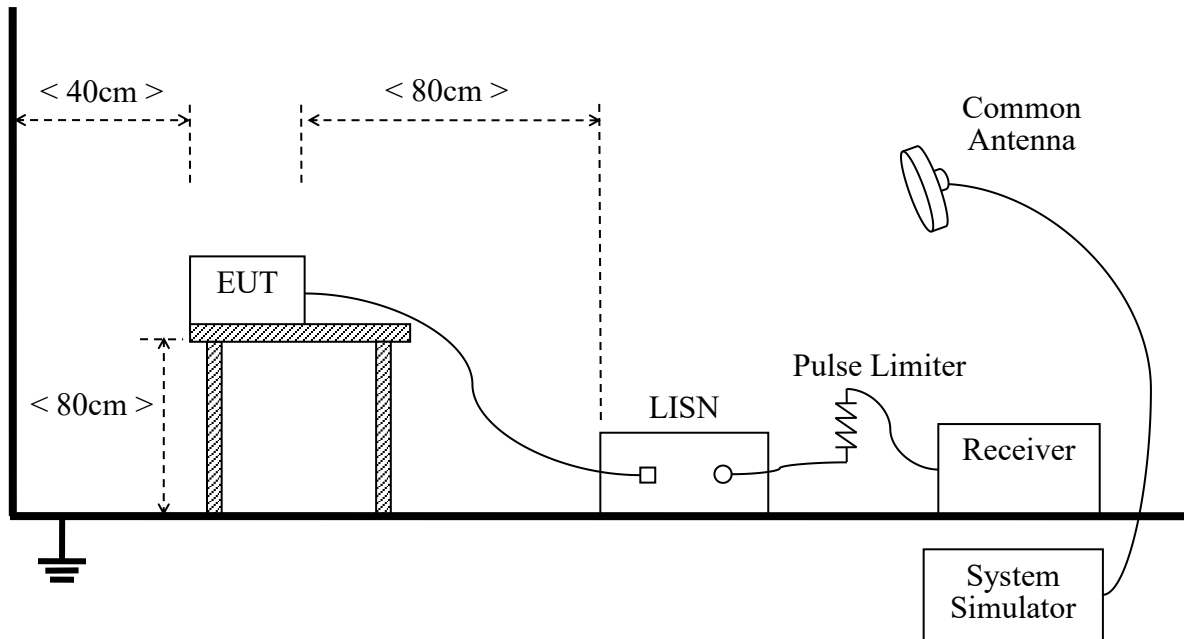
Setup3: EUT + Notebook PC + DATA;

Setup4: Idle + Charger;

## 2.3 Test Setup and Equipments List

### 2.3.1 Conducted Emission

#### A. Test Setup:



The EUT is placed on a 0.8m high insulating table, which stands on the grounded conducting floor, and keeps 0.4m away from the grounded conducting wall. The EUT is connected to the power mains through a LISN which provides  $50\Omega/50\mu\text{H}$  of coupling impedance for the measuring instrument. The Common Antenna is used for the call between the EUT and the System Simulator (SS). A Pulse Limiter is used to protect the measuring instrument. The factors of the whole test system are calibrated to correct the reading.

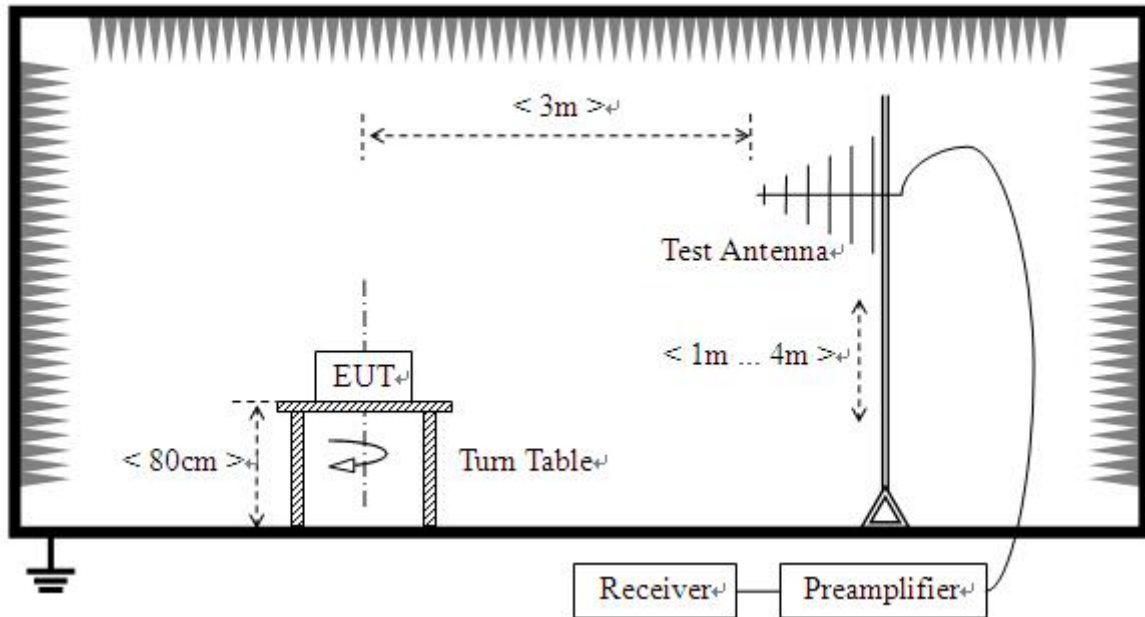
#### B. Equipments List:

| Description   | Manufacturer  | Model  | Serial No. | Calibration Date | Calibration Due. Date |
|---------------|---------------|--------|------------|------------------|-----------------------|
| Test Receiver | KEYSIGHT      | N9038A | A141202036 | 2024.06.05       | 2025.06.04            |
| LISN          | ROHDE&SCHWARZ | ENV216 | A140701847 | 2024.05.23       | 2025.05.22            |
| Cable         | MATCHING PAD  | W7     | /          | 2024.07.03       | 2025.07.02            |

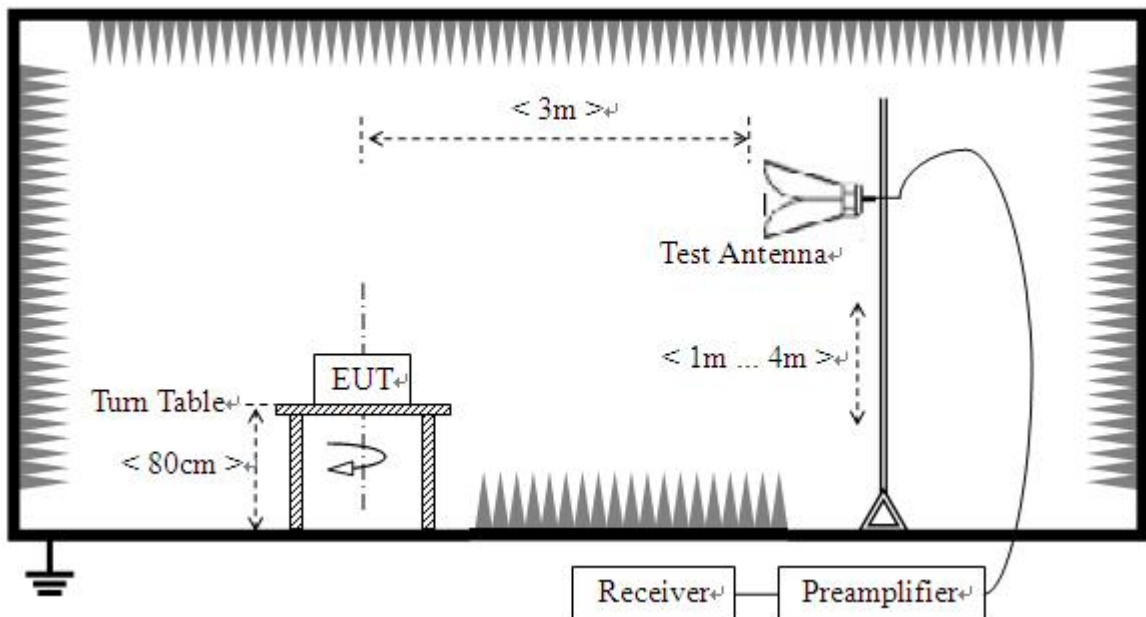
## 2.3.2 Radiated Emission

### A. Test Setup:

- 1) For radiated emissions from 30MHz to 1GHz



- 2) For radiated emissions above 1GHz



**B. Test Procedure**

The test is performed in a 3m Semi-Anechoic Chamber; the antenna factor, cable loss and so on of the site (factors) is calculated to correct the reading. The EUT is placed on a 0.8m high insulating Turn Table, and keeps 3m away from the Test Antenna, which is mounted on a variable-height antenna master tower.

For the test Antenna:

- 1) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

**C. Equipments List:**

| Description         | Manufacturer  | Model                     | Serial No. | Calibration Date | Calibration Due. Date |
|---------------------|---------------|---------------------------|------------|------------------|-----------------------|
| EMI Test Receiver   | ROHDE&SCHWARZ | ESIB7                     | A0501375   | 2024.02.28       | 2025.02.27            |
| Broadband Ant.      | ETC           | MCTD2786                  | A150402239 | 2024.01.19       | 2025.01.18            |
| 3M Anechoic Chamber | Albatross     | SAC-3MAC<br>9*6*6m        | A0412375   | 2024.02.27       | 2027.02.27            |
| EMI Test Receiver   | ROHDE&SCHWARZ | ESW26                     | A180502935 | 2024.05.24       | 2025.05.23            |
| 5M Anechoic Chamber | Albatross     | SAC-5MAC<br>12.8x6.8x6.4m | A0304210   | 2022.03.25       | 2025.06.07            |
| EMI Horn Ant.       | ROHDE&SCHWARZ | HF906                     | A0304225   | 2022.04.12       | 2025.04.11            |

### 3. 47 CFR PART 15B REQUIREMENTS

#### 3.1 Conducted Emission

##### 3.1.1 Requirement

According to FCC section 15.107, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 $\Omega$  line impedance stabilization network (LISN).

| Frequency range (MHz) | Conducted Limit (dB $\mu$ V) |          |
|-----------------------|------------------------------|----------|
|                       | Quasi-peak                   | Average  |
| 0.15 - 0.50           | 66 to 56                     | 56 to 46 |
| 0.50 - 5              | 56                           | 46       |
| 5 - 30                | 60                           | 50       |

**Note:**

- The limit subjects to the Class B digital device.
- The lower limit shall apply at the band edges.
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

##### 3.1.2 Test Description

See section 2.3.1 of this report.

##### 3.1.3 Test Result

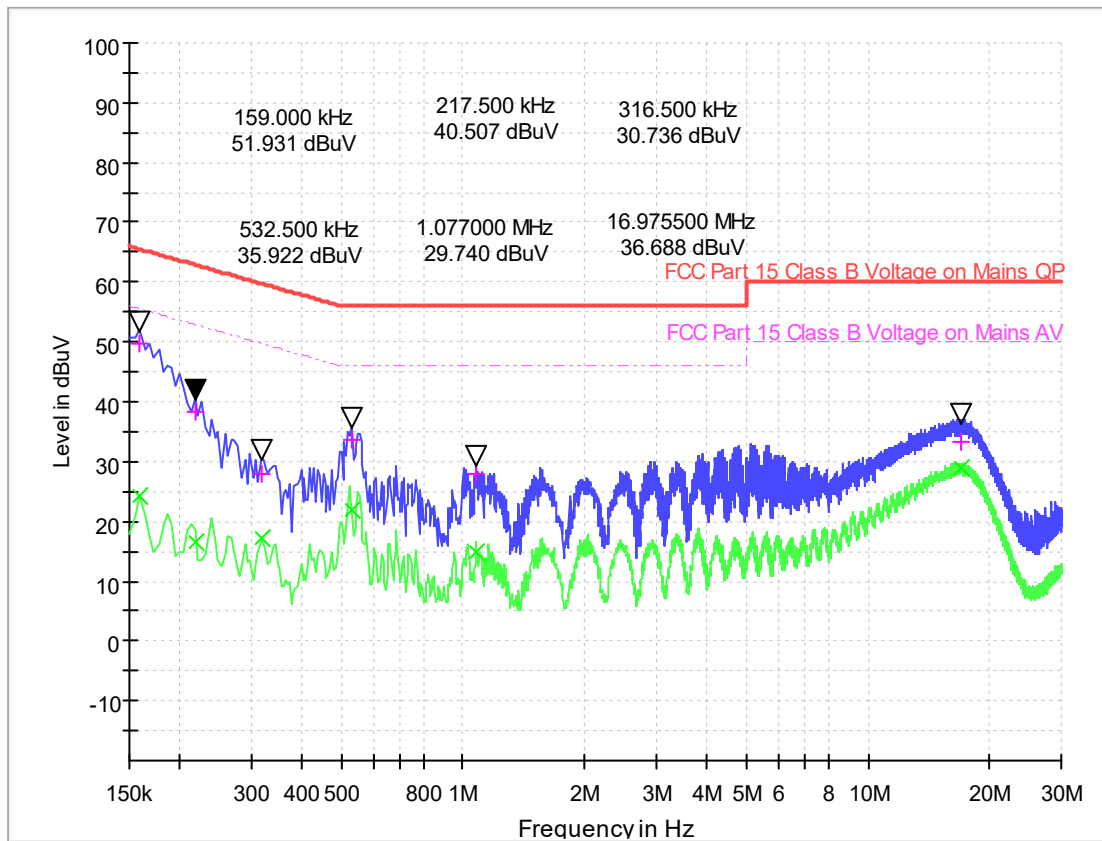
The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. All test modes are considered, refer to recorded points and plots below.

**Note:**

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a Nominal 230V AC, 50/60Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

## Test voltage and frequency (230V AC, 60Hz)

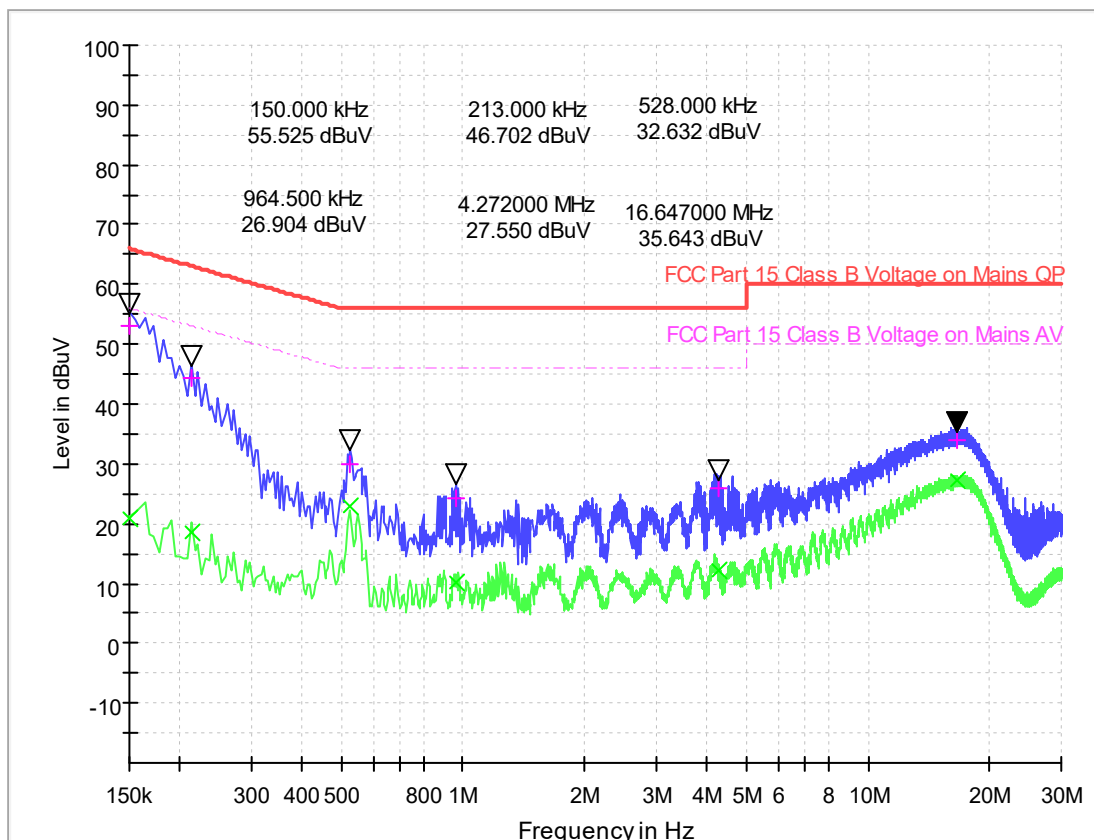
### A. Mains terminal disturbance voltage, L phase, Setup 1



(Plot A: L Phase)

| Frequency (MHz) | QuasiPea k | CAverage (dB $\mu$ V) | Cabel Loss (dB) | Corr. (dB) | Margin - QPK | Limit - QPK | Margin - AV | Limit - AV (dB $\mu$ V) |
|-----------------|------------|-----------------------|-----------------|------------|--------------|-------------|-------------|-------------------------|
| 0.159000        | 49.66      | 24.15                 | 0.1             | 10.1       | 15.86        | 65.5        | 31.37       | 55.5                    |
| 0.217500        | 38.16      | 16.51                 | 0.1             | 10.1       | 24.75        | 62.9        | 36.40       | 52.9                    |
| 0.316500        | 27.85      | 17.17                 | 0.1             | 10.1       | 31.95        | 59.8        | 32.63       | 49.8                    |
| 0.532500        | 33.69      | 21.76                 | 0.1             | 10.1       | 22.31        | 56.0        | 24.24       | 46.0                    |
| 1.077000        | 27.78      | 14.82                 | 0.2             | 10.2       | 28.22        | 56.0        | 31.18       | 46.0                    |
| 16.975500       | 33.30      | 28.79                 | 0.5             | 10.5       | 26.70        | 60.0        | 21.21       | 50.0                    |

## B. Mains terminal disturbance voltage, N phase, Setup 1



(Plot B: N Phase)

| Frequency (MHz) | QuasiPea k | CAverage (dB $\mu$ V) | Cabel Loss (dB) | Corr. (dB) | Margin - QPK | Limit - QPK | Margin - AV | Limit - AV (dB $\mu$ V) |
|-----------------|------------|-----------------------|-----------------|------------|--------------|-------------|-------------|-------------------------|
| 0.150000        | 53.11      | 20.82                 | 0.1             | 10.1       | 12.89        | 66.0        | 35.18       | 56.0                    |
| 0.213000        | 44.29      | 18.39                 | 0.1             | 10.1       | 18.80        | 63.1        | 34.70       | 53.1                    |
| 0.528000        | 30.05      | 22.77                 | 0.1             | 10.1       | 25.95        | 56.0        | 23.23       | 46.0                    |
| 0.964500        | 24.10      | 10.31                 | 0.2             | 10.2       | 31.90        | 56.0        | 35.69       | 46.0                    |
| 4.272000        | 25.77      | 12.20                 | 0.5             | 10.5       | 30.23        | 56.0        | 33.80       | 46.0                    |
| 16.647000       | 33.90      | 27.26                 | 0.5             | 10.5       | 26.10        | 60.0        | 22.74       | 50.0                    |

## 3.2 Radiated Emission

### 3.2.1 Requirement

According to FCC section 15.109, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

| Frequency range (MHz) | Field Strength  |      | Field Strength Limitation at 3m Measurement Dist |                     |
|-----------------------|-----------------|------|--------------------------------------------------|---------------------|
|                       | $\mu\text{V/m}$ | Dist | ( $\mu\text{V/m}$ )                              | ( $\text{dBuV/m}$ ) |
| 30.0 - 88.0           | 100             | 3m   | 100                                              | $20\log 100$        |
| 88.0 - 216.0          | 150             | 3m   | 150                                              | $20\log 150$        |
| 216.0 - 960.0         | 200             | 3m   | 200                                              | $20\log 200$        |
| Above 960.0           | 500             | 3m   | 500                                              | $20\log 500$        |

- For frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.
- Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.
- For below 1G: QP detector RBW 120 kHz, VBW 300 kHz.

For Above 1G: PK detector RBW 1MHz, VBW 3MHz for PK value; AV detector RBW 1MHz, VBW 10Hz for AV value.

#### Note:

- The tighter limit shall apply at the boundary between two frequency range.
- Limitation expressed in  $\text{dBuV/m}$  is calculated by  $20\log \text{Emission Level}(\mu\text{V/m})$ .
- If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula of  $Ld1 = Ld2 * (d2/d1)^2$ .

Example:

F.S Limit at 30m distance is  $30\mu\text{V/m}$ , then F.S Limitation at 3m distance is adjusted as

$$Ld1 = L1 = 30\mu\text{V/m} * (10)^2 = 100 * 30\mu\text{V/m}.$$



### **3.2.2 Test Description**

See section 2.3.2 of this report.

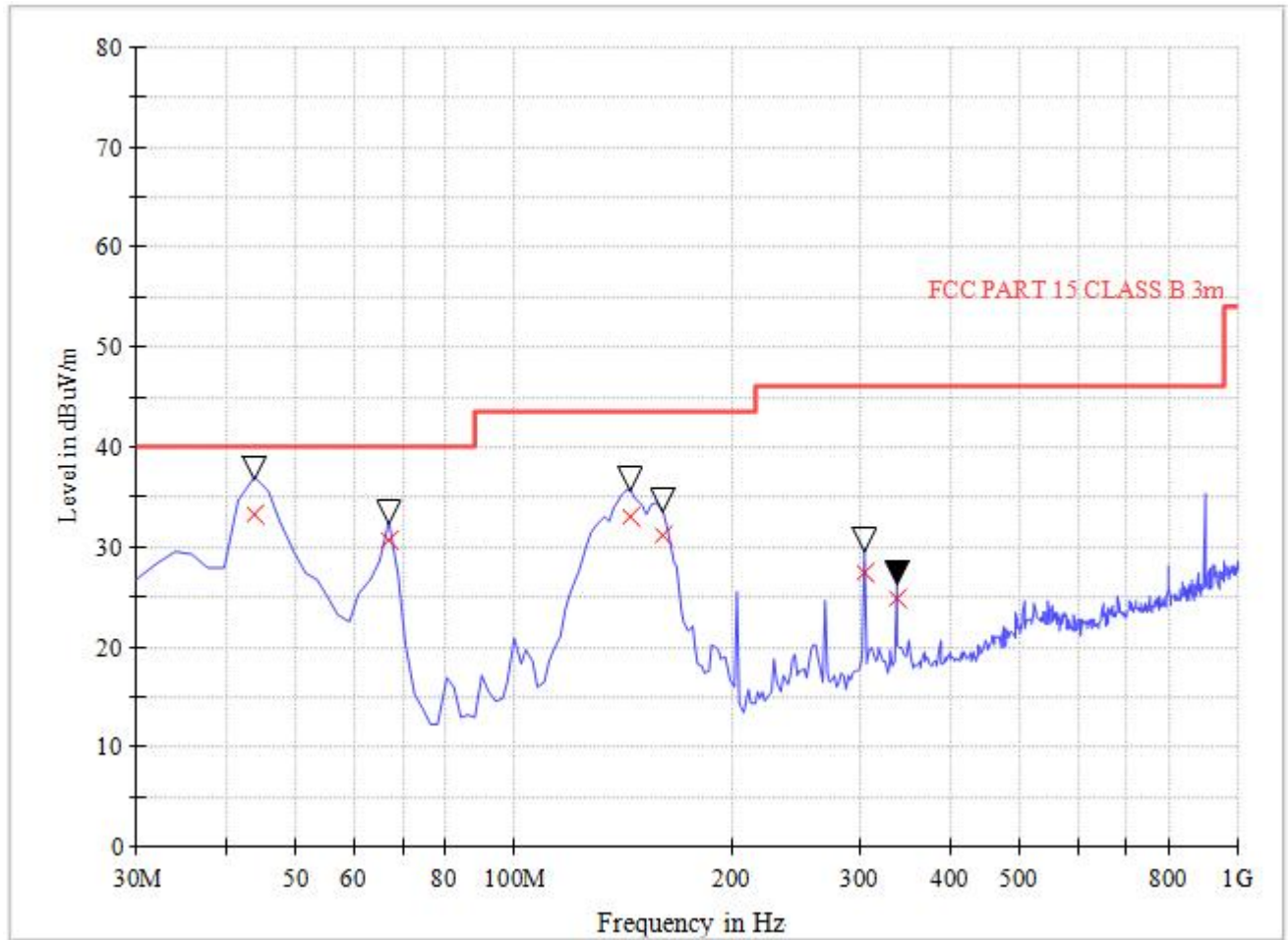
### **3.2.3 Test Result**

The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors. Both the vertical and the horizontal polarizations of the Test Antenna are considered to perform the tests. All test modes are considered, refer to recorded points and plots below.

The amplitude of spurious emissions which are attenuated more than 20 dB below the permissible value need not be reported.

Note: All radiated emission tests were performed in X, Y, Z axis direction, and only the worst axis test condition was recorded in this test report.

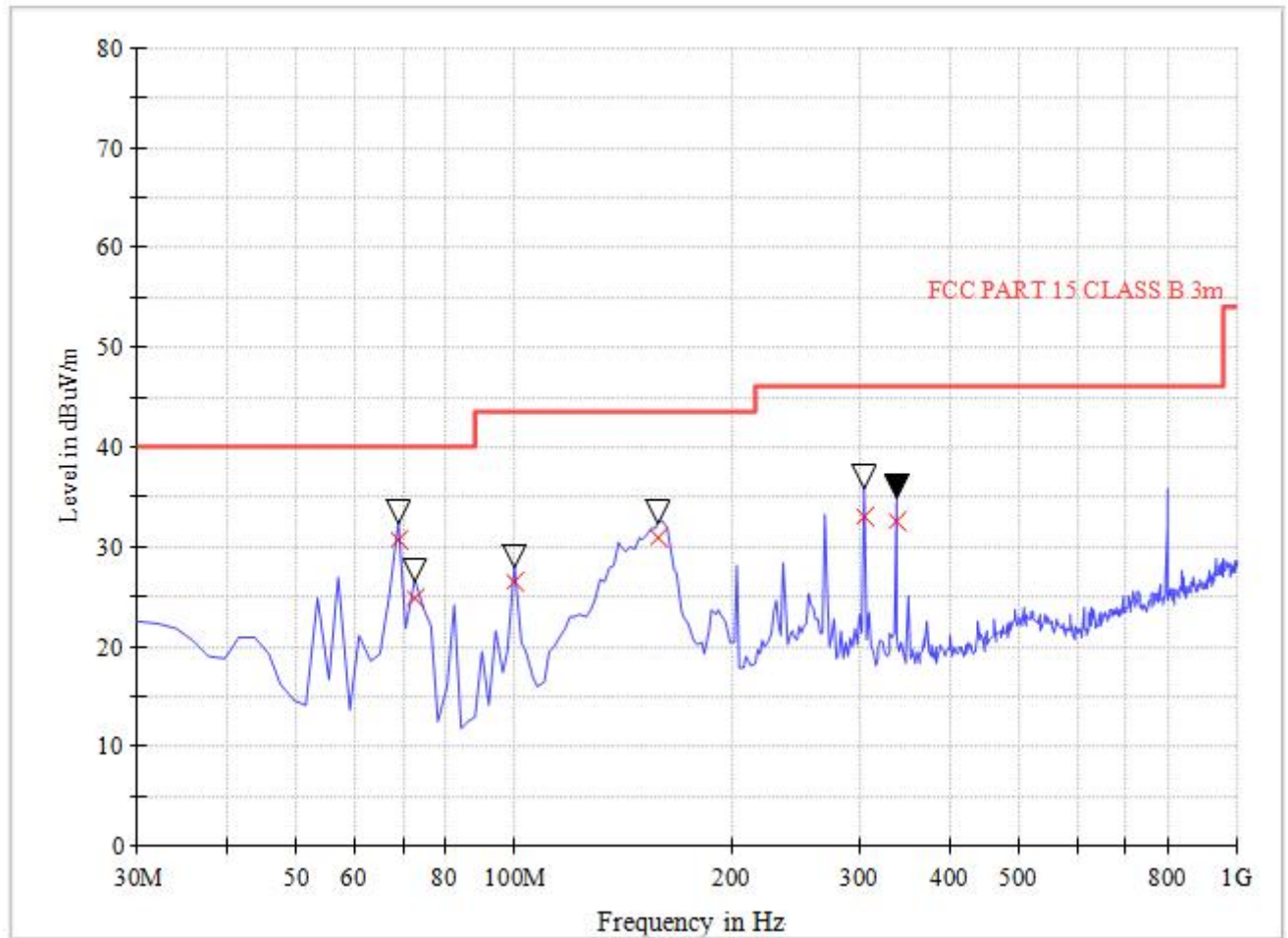
### A. Radiation disturbances, antenna polarization: Vertical, Setup1



(Plot C: Test Antenna Vertical 30M - 1G)

| Frequency (MHz) | QuasiPeak (dB $\mu$ V/m) | Bandwidth (kHz) | Antenna height (cm) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna  | Cable Loss(dB) | ANT. Factor(dB ) | Verdict |
|-----------------|--------------------------|-----------------|---------------------|----------------------|-------------|----------|----------------|------------------|---------|
| 43.60           | 33.33                    | 120.000         | 106                 | 40.0                 | 6.67        | Vertical | 0.5            | 11.2             | Pass    |
| 66.92           | 30.55                    | 120.000         | 101                 | 40.0                 | 9.45        | Vertical | 0.8            | 5.7              | Pass    |
| 144.68          | 32.98                    | 120.000         | 105                 | 43.5                 | 10.52       | Vertical | 1.0            | 11.5             | Pass    |
| 160.24          | 31.09                    | 120.000         | 103                 | 43.5                 | 12.41       | Vertical | 1.2            | 11.2             | Pass    |
| 304.08          | 27.43                    | 120.000         | 106                 | 46.0                 | 18.57       | Vertical | 1.4            | 14.5             | Pass    |
| 337.12          | 24.89                    | 120.000         | 104                 | 46.0                 | 21.11       | Vertical | 1.4            | 15.1             | Pass    |

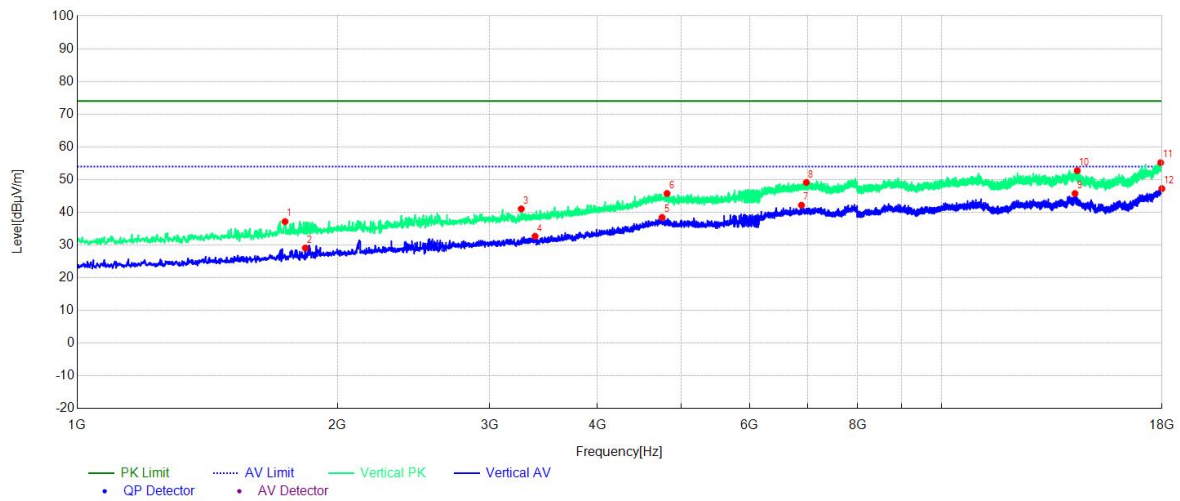
## B. Radiation disturbances, antenna polarization: Horizontal, Setup1



(Plot D: Test Antenna Horizontal 30M - 1G)

| Frequency (MHz) | QuasiPeak (dB $\mu$ V/m) | Bandwidth (kHz) | Antenna height (cm) | Limit (dB $\mu$ V/m) | Margin (dB) | Antenna    | Cable Loss(dB) | ANT. Factor(dB) | Verdict |
|-----------------|--------------------------|-----------------|---------------------|----------------------|-------------|------------|----------------|-----------------|---------|
| 68.88           | 30.74                    | 120.000         | 105                 | 40.0                 | 9.26        | Horizontal | 0.8            | 5.9             | Pass    |
| 72.76           | 24.82                    | 120.000         | 103                 | 40.0                 | 15.18       | Horizontal | 0.8            | 6.4             | Pass    |
| 99.96           | 26.35                    | 120.000         | 106                 | 43.5                 | 17.15       | Horizontal | 0.8            | 10.0            | Pass    |
| 158.28          | 30.88                    | 120.000         | 102                 | 43.5                 | 12.62       | Horizontal | 1.1            | 11.4            | Pass    |
| 304.08          | 32.87                    | 120.000         | 107                 | 46.0                 | 13.13       | Horizontal | 1.4            | 14.5            | Pass    |
| 337.12          | 32.48                    | 120.000         | 105                 | 46.0                 | 13.52       | Horizontal | 1.4            | 15.1            | Pass    |

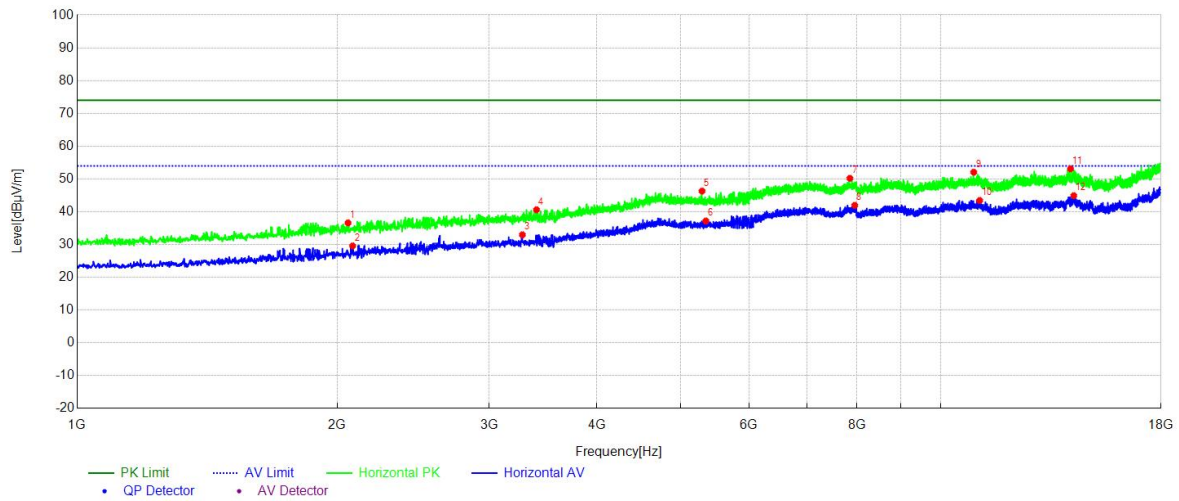
## A. Radiation disturbances, antenna polarization: Vertical, Setup1



(Plot M: Test Antenna Vertical 1G – 18G)

| NO | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin[dB μV/m] | Trace | Height [cm] | Angle [°] | Polarity |
|----|-------------|----------------|-------------|----------------|-----------------|-------|-------------|-----------|----------|
| 1  | 1739.57     | 37.18          | -13.05      | 74.00          | 36.82           | PK    | 106         | 27        | Vertical |
| 2  | 1836.48     | 29.11          | -12.58      | 54.00          | 24.89           | AV    | 103         | 25        | Vertical |
| 3  | 3264.63     | 41.05          | -7.78       | 74.00          | 32.95           | PK    | 107         | 112       | Vertical |
| 4  | 3387.04     | 32.67          | -7.45       | 54.00          | 21.33           | AV    | 102         | 204       | Vertical |
| 5  | 4750.58     | 38.44          | -0.96       | 54.00          | 15.56           | AV    | 108         | 13        | Vertical |
| 6  | 4813.48     | 45.76          | -0.92       | 74.00          | 28.24           | PK    | 106         | 345       | Vertical |
| 7  | 6887.69     | 42.18          | 3.16        | 54.00          | 11.82           | AV    | 104         | 27        | Vertical |
| 8  | 6977.80     | 49.13          | 3.30        | 74.00          | 24.87           | PK    | 105         | 112       | Vertical |
| 9  | 14274.93    | 45.75          | 9.77        | 54.00          | 8.25            | AV    | 101         | 104       | Vertical |
| 10 | 14361.64    | 52.77          | 9.44        | 74.00          | 21.23           | PK    | 109         | 223       | Vertical |
| 11 | 17938.79    | 55.18          | 14.74       | 74.00          | 18.82           | PK    | 106         | 342       | Vertical |
| 12 | 17993.20    | 47.23          | 14.85       | 54.00          | 6.77            | AV    | 105         | 14        | Vertical |

## B. Radiation disturbances, antenna polarization: Horizontal, Setup1



(Plot N: Test Antenna Horizontal 1G – 18G)

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin[dB μV/m] | Trace | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-----------------|-------|-------------|-----------|------------|
| 1   | 2059.21     | 36.61          | -11.73      | 74.00          | 37.39           | PK    | 101         | 324       | Horizontal |
| 2   | 2084.71     | 29.58          | -11.67      | 54.00          | 24.42           | AV    | 108         | 203       | Horizontal |
| 3   | 3278.23     | 32.97          | -7.75       | 54.00          | 21.03           | AV    | 106         | 241       | Horizontal |
| 4   | 3404.04     | 40.62          | -7.41       | 74.00          | 33.38           | PK    | 107         | 158       | Horizontal |
| 5   | 5292.93     | 46.31          | -1.40       | 74.00          | 27.69           | PK    | 108         | 274       | Horizontal |
| 6   | 5347.33     | 37.19          | -1.42       | 54.00          | 16.81           | AV    | 103         | 136       | Horizontal |
| 7   | 7849.99     | 50.21          | 4.02        | 74.00          | 23.79           | PK    | 104         | 223       | Horizontal |
| 8   | 7952.00     | 41.95          | 4.08        | 54.00          | 12.05           | AV    | 102         | 224       | Horizontal |
| 9   | 10923.89    | 52.06          | 6.60        | 74.00          | 21.94           | PK    | 106         | 112       | Horizontal |
| 10  | 11099.01    | 43.44          | 6.56        | 54.00          | 10.56           | AV    | 105         | 219       | Horizontal |
| 11  | 14138.91    | 53.09          | 9.35        | 74.00          | 20.91           | PK    | 101         | 65        | Horizontal |
| 12  | 14263.03    | 44.91          | 9.72        | 54.00          | 9.09            | AV    | 108         | 294       | Horizontal |

-----End of Report-----