

# FCC REPORT

**Applicant:** Jiangxi Lesia Technology Co., Limited

**Address of Applicant:** Yangjiahu District(South Of Xiangxing Avenue), Industrial Park,  
Gao'An City, Jiangxi Province

**Equipment Under Test (EUT)**

Product Name: Mobile Phone

Model No.: KT5509, K5

Trade mark: LESIA

**FCC ID:** 2ATFDLESIK5

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart B

**Date of sample receipt:** 06 Jun., 2019

**Date of Test:** 07 Jun., to 25 Jun., 2019

**Date of report issued:** 26 Jun., 2019

**Test Result:** PASS \*

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

Authorized Signature:



Bruce Zhang  
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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## 2 Version

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 00          | 26 Jun., 2019 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |
|             |               |             |

**Tested by:**

*Carey Chen*

**Test Engineer**

**Date:**

26 Jun., 2019

**Reviewed by:**

*Wimer Zhang*

**Project Engineer**

**Date:**

26 Jun., 2019

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## 4 Test Summary

| Test Item                                                                                                                                                | Section in CFR 47 | Result |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------|
| Conducted Emission                                                                                                                                       | Part 15.107       | Pass   |
| Radiated Emission                                                                                                                                        | Part 15.109       | Pass   |
| <i>Remark:</i><br><i>Pass: The EUT complies with the essential requirements in the standard.</i><br><i>N/A: The EUT not applicable of the test item.</i> |                   |        |

## 5 General Information

### 5.1 Client Information

|               |                                                                                               |
|---------------|-----------------------------------------------------------------------------------------------|
| Applicant:    | Jiangxi Lesia Technology Co., Limited                                                         |
| Address:      | Yangjiahu District(South Of Xiangxing Avenue), Industrial Park, Gao'An City, Jiangxi Province |
| Manufacturer: | Jiangxi Lesia Technology Co., Limited                                                         |
| Address:      | Yangjiahu District(South Of Xiangxing Avenue), Industrial Park, Gao'An City, Jiangxi Province |

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

|                        |                                                                                                                                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:          | Mobile phone                                                                                                                                                  |
| Model No.:             | KT5509, K5                                                                                                                                                    |
| Power supply:          | Rechargeable Li-ion Battery DC3.8V, 2500mAh                                                                                                                   |
| AC adapter :           | Model: SMART SERIES<br>Input: AC100-240V, 50/60Hz, 0.2A<br>Output: DC 5.0V, 1.0A                                                                              |
| Remarks:               | item No.: KT5509, K5 were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name |
| Test Sample Condition: | The test samples were provided in good working order with no visible defects.                                                                                 |

### 5.3 Test Mode

| Operating mode          | Detail description                           |
|-------------------------|----------------------------------------------|
| PC mode                 | Keep the EUT in Downloading mode(Worst case) |
| Charging+Recording mode | Keep the EUT in Charging+Recording mode      |
| Charging+Playing mode   | Keep the EUT in Charging+Playing mode        |
| FM mode                 | Keep the EUT in FM receiver mode             |
| GPS mode                | Keep the EUT in GPS receiver mode            |

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

### 5.4 Measurement Uncertainty

| Parameters                          | Expanded Uncertainty |
|-------------------------------------|----------------------|
| Conducted Emission (9kHz ~ 30MHz)   | ±1.60 dB (k=2)       |
| Radiated Emission (9kHz ~ 30MHz)    | ±3.12 dB (k=2)       |
| Radiated Emission (30MHz ~ 1000MHz) | ±4.54 dB (k=2)       |
| Radiated Emission (1GHz ~ 18GHz)    | ±5.84 dB (k=2)       |
| Radiated Emission (18GHz ~ 40GHz)   | ±3.36 dB (k=2)       |

## 5.5 Description of Support Units

| Manufacturer | Description | Model       | Serial Number | FCC ID/DoC |
|--------------|-------------|-------------|---------------|------------|
| DELL         | PC          | OPTIPLEX745 | N/A           | DoC        |
| DELL         | MONITOR     | E178FPC     | N/A           | DoC        |
| DELL         | KEYBOARD    | SK-8115     | N/A           | DoC        |
| DELL         | MOUSE       | MOC5UO      | N/A           | DoC        |
| LENOVO       | Laptop      | SL510       | 2847A65       | DoC        |

## 5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

## 5.7 Description of Cable Used

| Cable Type             | Description | Length | From | To         |
|------------------------|-------------|--------|------|------------|
| Detached USB Cable     | Shielding   | 1.0m   | EUT  | PC/Adapter |
| Detached headset cable | Unshielded  | 1.2m   | EUT  | Headset    |

## 5.8 Laboratory Facility

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

- **FCC - Designation No.: CN1211**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L6048**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

## 5.9 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.  
Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,  
Bao'an District, Shenzhen, Guangdong, China  
Tel: +86-755-23118282, Fax: +86-755-23116366  
Email: info@ccis-cb.com, Website: <http://www.ccis-cb.com>

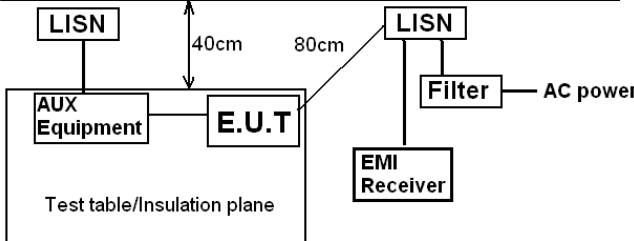
## 5.10 Test Instruments list

| Radiated Emission: |                 |               |                    |                      |                          |
|--------------------|-----------------|---------------|--------------------|----------------------|--------------------------|
| Test Equipment     | Manufacturer    | Model No.     | Serial No.         | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| 3m SAC             | SAEMC           | 9m*6m*6m      | 966                | 07-22-2017           | 07-21-2020               |
| Loop Antenna       | SCHWARZBECK     | FMZB1519B     | 00044              | 03-18-2019           | 03-17-2020               |
| BiConiLog Antenna  | SCHWARZBECK     | VULB9163      | 497                | 03-18-2019           | 03-17-2020               |
| Horn Antenna       | SCHWARZBECK     | BBHA9120D     | 916                | 03-18-2019           | 03-17-2020               |
| Horn Antenna       | SCHWARZBECK     | BBHA9120D     | 1805               | 06-22-2017           | 06-21-2020               |
| Horn Antenna       | SCHWARZBECK     | BBHA 9170     | BBHA9170582        | 11-21-2018           | 11-20-2019               |
| EMI Test Software  | AUDIX           | E3            | Version: 6.110919b |                      |                          |
| Pre-amplifier      | HP              | 8447D         | 2944A09358         | 03-18-2019           | 03-17-2020               |
| Pre-amplifier      | CD              | PAP-1G18      | 11804              | 03-18-2019           | 03-17-2020               |
| Spectrum analyzer  | Rohde & Schwarz | FSP30         | 101454             | 03-18-2019           | 03-17-2020               |
| Spectrum analyzer  | Rohde & Schwarz | FSP40         | 100363             | 11-21-2018           | 11-20-2019               |
| EMI Test Receiver  | Rohde & Schwarz | ESRP7         | 101070             | 03-18-2019           | 03-17-2020               |
| Cable              | ZDECL           | Z108-NJ-NJ-81 | 1608458            | 03-18-2019           | 03-17-2020               |
| Cable              | MICRO-COAX      | MFR64639      | K10742-5           | 03-18-2019           | 03-17-2020               |
| Cable              | SUHNER          | SUCOFLEX100   | 58193/4PE          | 03-18-2019           | 03-17-2020               |

| Conducted Emission: |                 |            |                    |                      |                          |
|---------------------|-----------------|------------|--------------------|----------------------|--------------------------|
| Test Equipment      | Manufacturer    | Model No.  | Serial No.         | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| EMI Test Receiver   | Rohde & Schwarz | ESCI       | 101189             | 03-18-2019           | 03-17-2020               |
| Pulse Limiter       | SCHWARZBECK     | OSRAM 2306 | 9731               | 03-18-2019           | 03-17-2020               |
| LISN                | CHASE           | MN2050D    | 1447               | 03-18-2019           | 03-17-2020               |
| LISN                | Rohde & Schwarz | ESH3-Z5    | 8438621/010        | 07-21-2018           | 07-20-2019               |
| Cable               | HP              | 10503A     | N/A                | 03-18-2019           | 03-17-2020               |
| EMI Test Software   | AUDIX           | E3         | Version: 6.110919b |                      |                          |

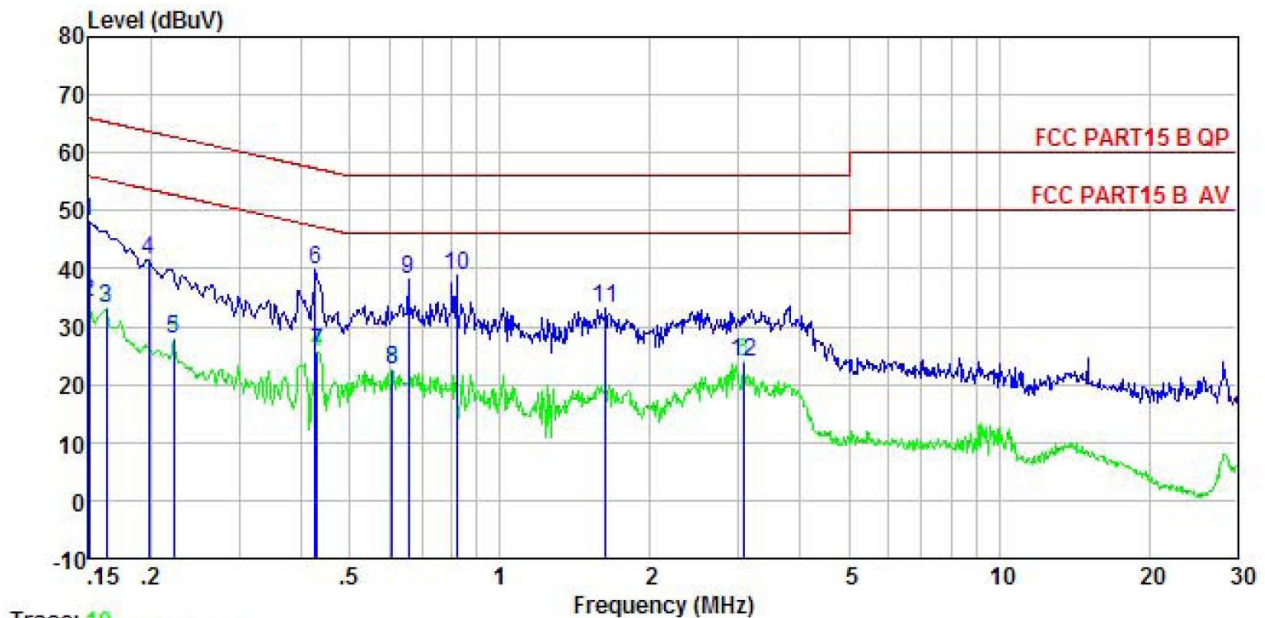
## 6 Test results and Measurement Data

### 6.1 Conducted Emission

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |         |           |         |        |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------|-----------|---------|--------|
| Test Requirement:                                | FCC Part 15 B Section 15.107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |         |           |         |        |
| Test Method:                                     | ANSI C63.4:2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |         |           |         |        |
| Test Frequency Range:                            | 150kHz to 30MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |         |           |         |        |
| Class / Severity:                                | Class B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |         |           |         |        |
| Receiver setup:                                  | RBW=9kHz, VBW=30kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |         |           |         |        |
| Limit:                                           | Frequency range (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Limit (dBμV) |         |           |         |        |
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Quasi-peak   |         | Average   |         |        |
|                                                  | 0.15-0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 66 to 56*    |         | 56 to 46* |         |        |
|                                                  | 0.5-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 56           |         | 46        |         |        |
|                                                  | 0.5-30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 60           |         | 50        |         |        |
| * Decreases with the logarithm of the frequency. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |         |           |         |        |
| Test setup:                                      | <div><p style="text-align: center;"><b>Reference Plane</b></p><p>Remark<br/>E.U.T: Equipment Under Test<br/>LISN: Line Impedance Stabilization Network<br/>Test table height=0.8m</p></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |         |           |         |        |
| Test procedure                                   | <div><div>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment.</div><div>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs).</div><div>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.</div></div> |              |         |           |         |        |
| Test environment:                                | Temp.:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 22.5 °C      | Humid.: | 55%       | Press.: | 101kPa |
| Test Instruments:                                | Refer to section 5.9 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |         |           |         |        |
| Test mode:                                       | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |         |           |         |        |
| Test results:                                    | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |         |           |         |        |

## Measurement data:

|                 |                  |                |                       |
|-----------------|------------------|----------------|-----------------------|
| Product name:   | Mobile Phone     | Product model: | KT5509                |
| Test by:        | YT               | Test mode:     | PC mode               |
| Test frequency: | 150 kHz ~ 30 MHz | Phase:         | Line                  |
| Test voltage:   | AC 120 V/60 Hz   | Environment:   | Temp: 22.5℃ Humi: 55% |



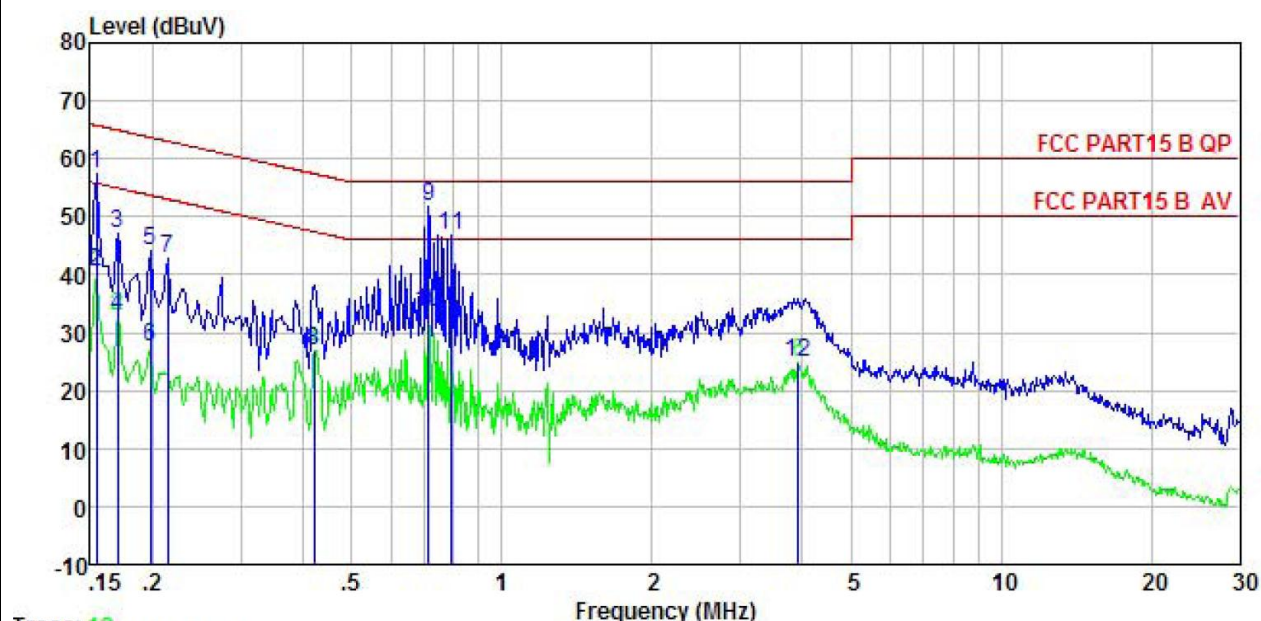
Trace: 10

|    | Freq  | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark  |
|----|-------|------------|-------------|------------|-------|------------|------------|---------|
|    | MHz   | dBuV       | dB          | dB         | dBuV  | dBuV       | dB         |         |
| 1  | 0.150 | 37.79      | -0.45       | 10.78      | 48.12 | 66.00      | -17.88     | QP      |
| 2  | 0.150 | 23.70      | -0.45       | 10.78      | 34.03 | 56.00      | -21.97     | Average |
| 3  | 0.162 | 22.72      | -0.44       | 10.77      | 33.05 | 55.34      | -22.29     | Average |
| 4  | 0.198 | 31.21      | -0.41       | 10.76      | 41.56 | 63.71      | -22.15     | QP      |
| 5  | 0.222 | 17.53      | -0.40       | 10.76      | 27.89 | 52.74      | -24.85     | Average |
| 6  | 0.426 | 29.41      | -0.38       | 10.73      | 39.76 | 57.33      | -17.57     | QP      |
| 7  | 0.431 | 15.19      | -0.38       | 10.73      | 25.54 | 47.24      | -21.70     | Average |
| 8  | 0.608 | 11.99      | -0.38       | 10.77      | 22.38 | 46.00      | -23.62     | Average |
| 9  | 0.654 | 27.77      | -0.38       | 10.77      | 38.16 | 56.00      | -17.84     | QP      |
| 10 | 0.817 | 28.40      | -0.38       | 10.82      | 38.84 | 56.00      | -17.16     | QP      |
| 11 | 1.628 | 22.67      | -0.40       | 10.93      | 33.20 | 56.00      | -22.80     | QP      |
| 12 | 3.074 | 13.37      | -0.44       | 10.92      | 23.85 | 46.00      | -22.15     | Average |

## Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

|                 |                  |                |                       |
|-----------------|------------------|----------------|-----------------------|
| Product name:   | Mobile Phone     | Product model: | KT5509                |
| Test by:        | YT               | Test mode:     | PC mode               |
| Test frequency: | 150 kHz ~ 30 MHz | Phase:         | Neutral               |
| Test voltage:   | AC 120 V/60 Hz   | Environment:   | Temp: 22.5℃ Humi: 55% |



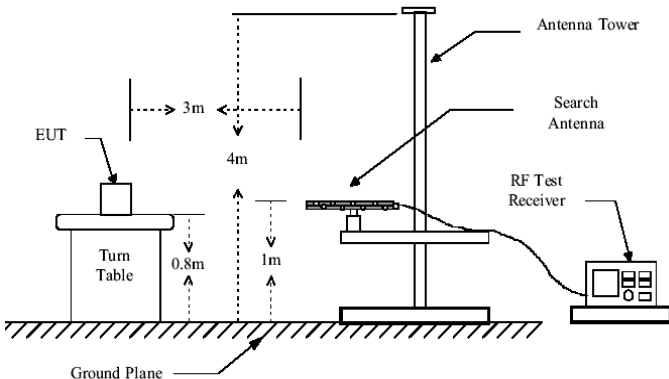
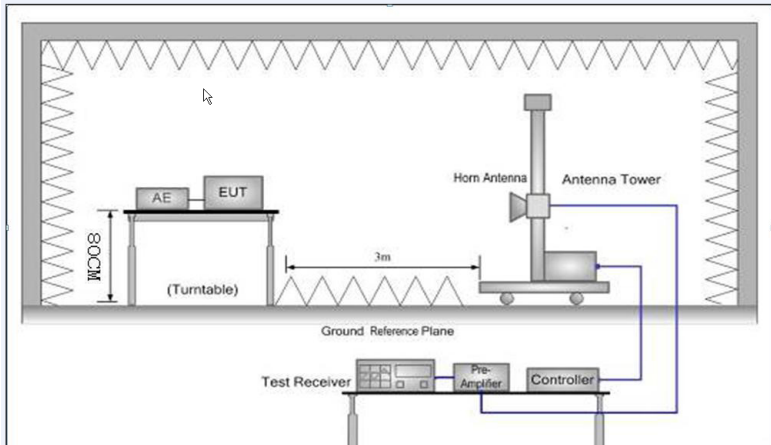
Trace: 12

|    | Freq  | Read Level | LISN Factor | Cable Loss | Level | Limit | Over   | Remark  |
|----|-------|------------|-------------|------------|-------|-------|--------|---------|
|    | MHz   | dBuV       | dB          | dB         | dBuV  | dBuV  | dB     |         |
| 1  | 0.154 | 47.18      | -0.68       | 10.78      | 57.28 | 65.78 | -8.50  | QP      |
| 2  | 0.154 | 30.34      | -0.68       | 10.78      | 40.44 | 55.78 | -15.34 | Average |
| 3  | 0.170 | 36.88      | -0.68       | 10.77      | 46.97 | 64.94 | -17.97 | QP      |
| 4  | 0.170 | 22.83      | -0.68       | 10.77      | 32.92 | 54.94 | -22.02 | Average |
| 5  | 0.198 | 33.96      | -0.69       | 10.76      | 44.03 | 63.71 | -19.68 | QP      |
| 6  | 0.198 | 17.31      | -0.69       | 10.76      | 27.38 | 53.71 | -26.33 | Average |
| 7  | 0.214 | 32.67      | -0.68       | 10.76      | 42.75 | 63.05 | -20.30 | QP      |
| 8  | 0.421 | 16.91      | -0.64       | 10.73      | 27.00 | 47.42 | -20.42 | Average |
| 9  | 0.712 | 41.54      | -0.64       | 10.78      | 51.68 | 56.00 | -4.32  | QP      |
| 10 | 0.712 | 23.35      | -0.64       | 10.78      | 33.49 | 46.00 | -12.51 | Average |
| 11 | 0.792 | 36.64      | -0.64       | 10.81      | 46.81 | 56.00 | -9.19  | QP      |
| 12 | 3.922 | 14.58      | -0.70       | 10.89      | 24.77 | 46.00 | -21.23 | Average |

#### Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

## 6.2 Radiated Emission

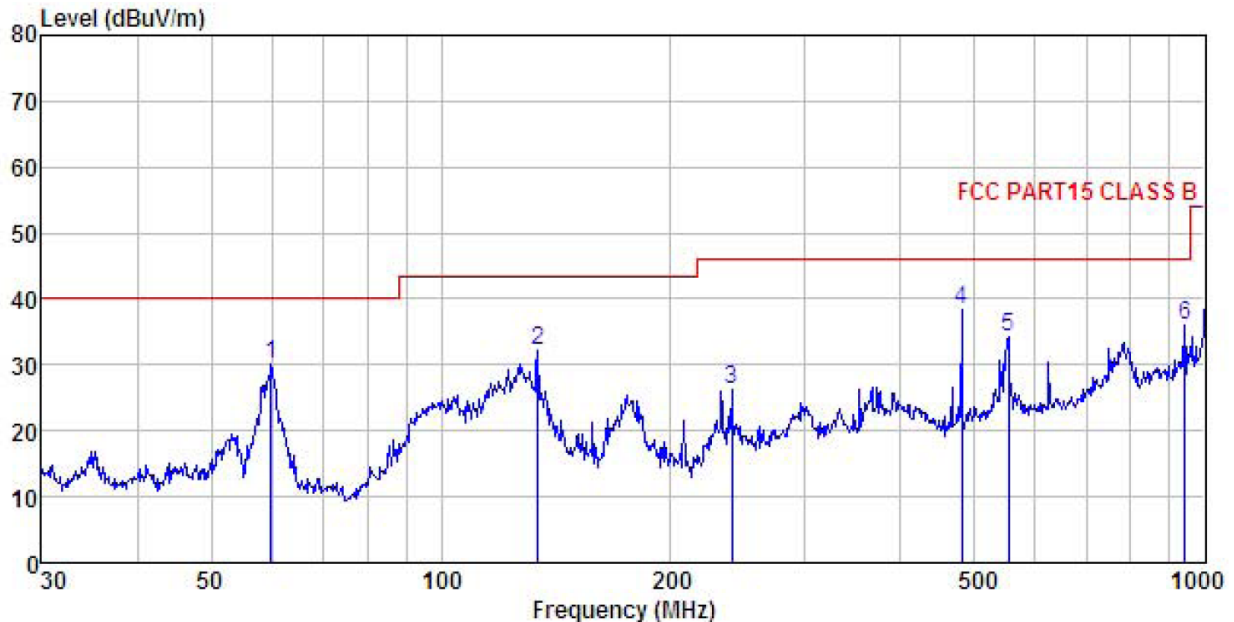
|                       |                                                                                      |             |                    |              |                             |
|-----------------------|--------------------------------------------------------------------------------------|-------------|--------------------|--------------|-----------------------------|
| Test Requirement:     | FCC Part 15 B Section 15.109                                                         |             |                    |              |                             |
| Test Method:          | ANSI C63.4:2014                                                                      |             |                    |              |                             |
| Test Frequency Range: | 30MHz to 6000MHz                                                                     |             |                    |              |                             |
| Test site:            | Measurement Distance: 3m (Semi-Anechoic Chamber)                                     |             |                    |              |                             |
| Receiver setup:       | Frequency                                                                            | Detector    | RBW                | VBW          | Remark                      |
|                       | 30MHz-1GHz                                                                           | Quasi-peak  | 120kHz             | 300kHz       | Quasi-peak Value            |
|                       | Above 1GHz                                                                           | Peak<br>RMS | 1MHz<br>1MHz       | 3MHz<br>3MHz | Peak Value<br>Average Value |
| Limit:                | Frequency                                                                            |             | Limit (dBuV/m @3m) |              | Remark                      |
|                       | 30MHz-88MHz                                                                          |             | 40.0               |              | Quasi-peak Value            |
|                       | 88MHz-216MHz                                                                         |             | 43.5               |              | Quasi-peak Value            |
|                       | 216MHz-960MHz                                                                        |             | 46.0               |              | Quasi-peak Value            |
|                       | 960MHz-1GHz                                                                          |             | 54.0               |              | Quasi-peak Value            |
|                       | Above 1GHz                                                                           |             | 54.0<br>74.0       |              | Average Value<br>Peak Value |
| Test setup:           | Below 1GHz                                                                           |             |                    |              |                             |
|                       |   |             |                    |              |                             |
| Test setup:           | Above 1GHz                                                                           |             |                    |              |                             |
|                       |  |             |                    |              |                             |

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |         |     |         |         |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------|-----|---------|---------|
| Test Procedure:   | <ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> </ol> |       |         |     |         |         |
| Test environment: | Temp.:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 24 °C | Humid.: | 57% | Press.: | 1 01kPa |
| Test Instruments: | Refer to section 5.9 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |         |     |         |         |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |         |     |         |         |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |       |         |     |         |         |
| Remark:           | <ol style="list-style-type: none"> <li>1. All of the observed value above 6GHz were the noise floor , which were no recorded</li> <li>2. DDR Highest frequency is 1.3GHz.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |         |     |         |         |

## Measurement Data:

## Below 1GHz:

|                 |                |                |                     |
|-----------------|----------------|----------------|---------------------|
| Product Name:   | Mobile Phone   | Product Model: | KT5509              |
| Test By:        | YT             | Test mode:     | PC mode             |
| Test Frequency: | 30 MHz ~ 1 GHz | Polarization:  | Vertical            |
| Test Voltage:   | AC 120/60Hz    | Environment:   | Temp: 24℃ Humi: 57% |

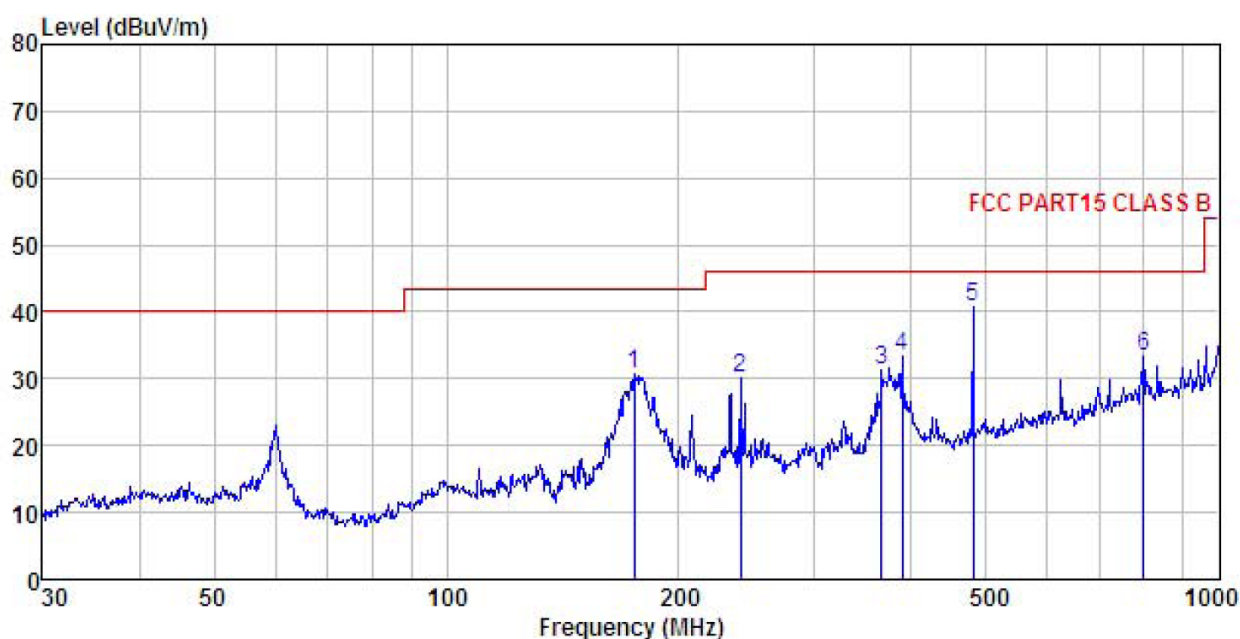


|   | Freq    | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level  | Limit  | Over   | Remark |
|---|---------|------------|----------------|------------|---------------|--------|--------|--------|--------|
|   | MHz     | dBuV       | dB/m           | dB         | dB            | dBuV/m | dBuV/m | dB     |        |
| 1 | 59.859  | 47.04      | 11.41          | 1.38       | 29.77         | 30.06  | 40.00  | -9.94  | QP     |
| 2 | 134.088 | 49.21      | 9.88           | 2.33       | 29.31         | 32.11  | 43.50  | -11.39 | QP     |
| 3 | 239.987 | 39.62      | 12.30          | 2.82       | 28.59         | 26.15  | 46.00  | -19.85 | QP     |
| 4 | 480.528 | 46.28      | 17.52          | 3.46       | 28.92         | 38.34  | 46.00  | -7.66  | QP     |
| 5 | 552.883 | 40.94      | 18.45          | 3.89       | 29.09         | 34.19  | 46.00  | -11.81 | QP     |
| 6 | 942.131 | 36.84      | 22.67          | 4.13       | 27.75         | 35.89  | 46.00  | -10.11 | QP     |

## Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are at least 20 dB below the limit and not show in test report.

|                 |                |                |                     |
|-----------------|----------------|----------------|---------------------|
| Product Name:   | Mobile Phone   | Product Model: | KT5509              |
| Test By:        | YT             | Test mode:     | PC mode             |
| Test Frequency: | 30 MHz ~ 1 GHz | Polarization:  | Horizontal          |
| Test Voltage:   | AC 120/60Hz    | Environment:   | Temp: 24℃ Humi: 57% |



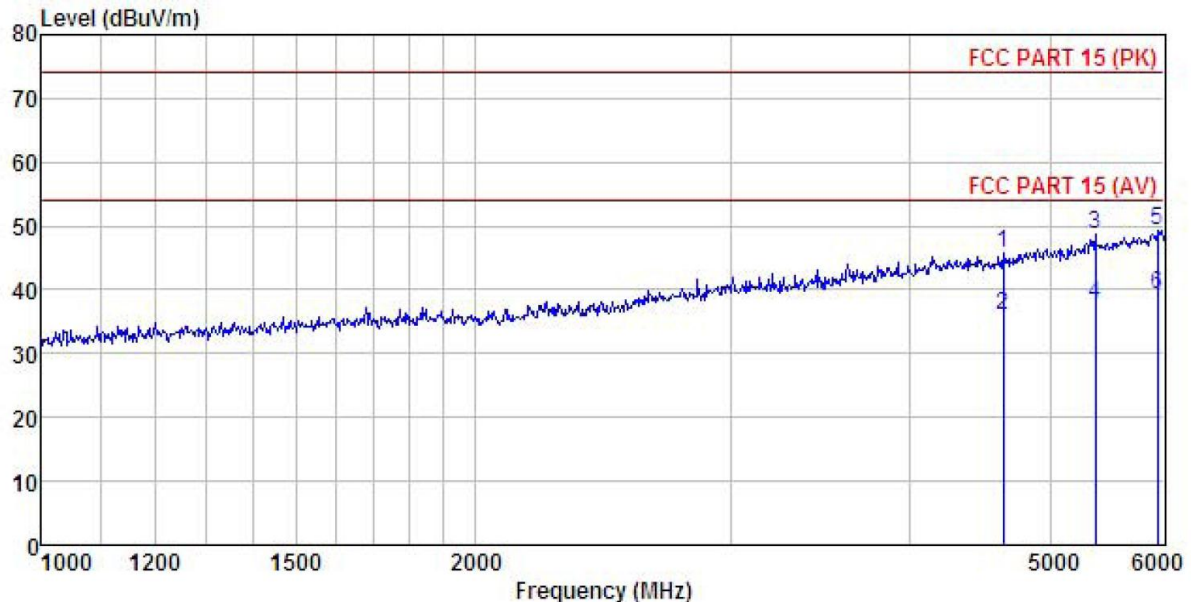
|   | Freq    | ReadAntenna | Cable Preamp | Limit | Over   |        |        |           |
|---|---------|-------------|--------------|-------|--------|--------|--------|-----------|
|   | MHz     | Level       | Factor       | Loss  | Factor | Level  | Line   | Limit     |
|   | MHz     | dBuV        | dB/m         | dB    | dB     | dBuV/m | dBuV/m | dB        |
| 1 | 175.037 | 47.19       | 9.81         | 2.69  | 29.01  | 30.68  | 43.50  | -12.82 QP |
| 2 | 239.987 | 43.56       | 12.30        | 2.82  | 28.59  | 30.09  | 46.00  | -15.91 QP |
| 3 | 365.539 | 41.94       | 14.82        | 3.09  | 28.63  | 31.22  | 46.00  | -14.78 QP |
| 4 | 389.355 | 43.88       | 15.15        | 3.08  | 28.73  | 33.38  | 46.00  | -12.62 QP |
| 5 | 480.528 | 48.65       | 17.52        | 3.46  | 28.92  | 40.71  | 46.00  | -5.29 QP  |
| 6 | 798.980 | 35.74       | 21.50        | 4.35  | 28.20  | 33.39  | 46.00  | -12.61 QP |

## Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamp Factor.
2. The emission levels of other frequencies are at least 20 dB below the limit and not show in test report.

**Above 1GHz:**

|                 |               |                |                     |
|-----------------|---------------|----------------|---------------------|
| Product Name:   | Mobile Phone  | Product Model: | KT5509              |
| Test By:        | YT            | Test mode:     | PC mode             |
| Test Frequency: | 1 GHz ~ 6 GHz | Polarization:  | Vertical            |
| Test Voltage:   | AC 120/60Hz   | Environment:   | Temp: 24℃ Humi: 57% |

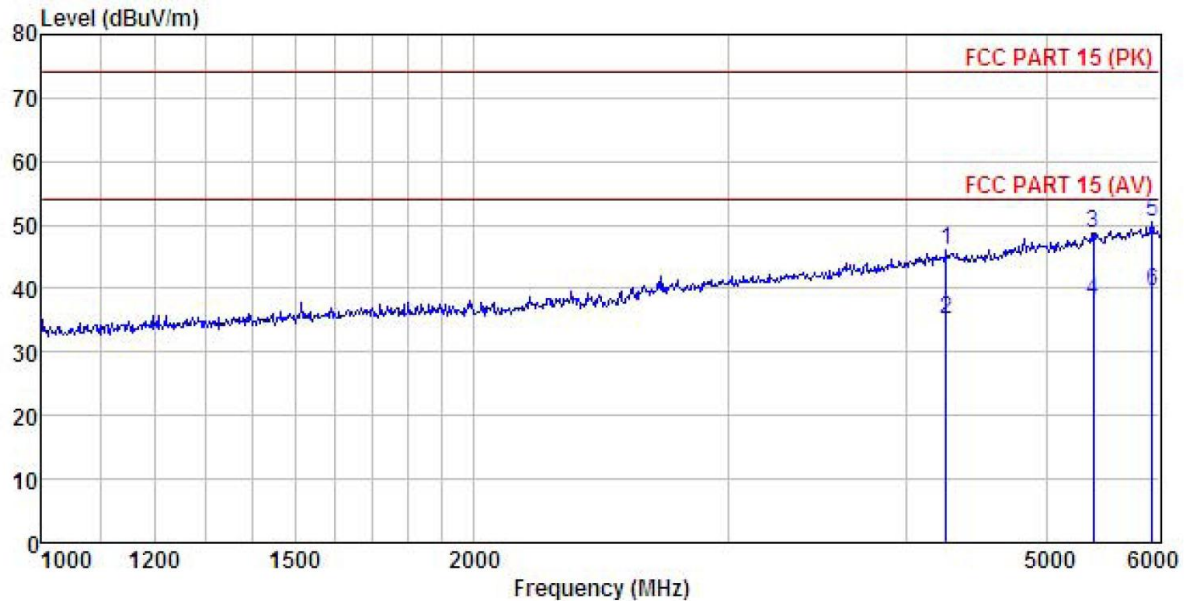


|   | Freq     | Read Level | Antenna Factor | Cable Loss | Preamplifier Factor | Level  | Limit Line | Over Limit | Remark  |
|---|----------|------------|----------------|------------|---------------------|--------|------------|------------|---------|
|   | MHz      | dBuV       | dB/m           | dB         | dB                  | dBuV/m | dBuV/m     | dB         |         |
| 1 | 4642.825 | 47.98      | 30.70          | 6.88       | 42.07               | 45.89  | 74.00      | -28.11     | Peak    |
| 2 | 4642.825 | 38.03      | 30.70          | 6.88       | 42.07               | 35.94  | 54.00      | -18.06     | Average |
| 3 | 5372.355 | 48.62      | 32.31          | 7.12       | 41.88               | 48.78  | 74.00      | -25.22     | Peak    |
| 4 | 5372.355 | 37.67      | 32.31          | 7.12       | 41.88               | 37.83  | 54.00      | -16.17     | Average |
| 5 | 5932.868 | 47.99      | 32.69          | 7.92       | 42.04               | 49.33  | 74.00      | -24.67     | Peak    |
| 6 | 5932.868 | 37.94      | 32.69          | 7.92       | 42.04               | 39.28  | 54.00      | -14.72     | Average |

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are at least 20 dB below the limit and not show in test report.

|                 |               |                |                     |
|-----------------|---------------|----------------|---------------------|
| Product Name:   | Mobile Phone  | Product Model: | KT5509              |
| Test By:        | YT            | Test mode:     | PC mode             |
| Test Frequency: | 1 GHz ~ 6 GHz | Polarization:  | Horizontal          |
| Test Voltage:   | AC 120/60Hz   | Environment:   | Temp: 24℃ Humi: 57% |



|   | Freq     | ReadAntenna | Cable Preamp | Limit  | Over  |        |        |        |         |
|---|----------|-------------|--------------|--------|-------|--------|--------|--------|---------|
|   | Level    | Factor      | Loss         | Factor | Level | Line   | Limit  | Remark |         |
|   | MHz      | dBuV        | dB/m         | dB     | dB    | dBuV/m | dBuV/m | dB     |         |
| 1 | 4261.849 | 48.64       | 30.35        | 6.50   | 41.86 | 45.92  | 74.00  | -28.08 | Peak    |
| 2 | 4261.849 | 37.80       | 30.35        | 6.50   | 41.86 | 35.08  | 54.00  | -18.92 | Average |
| 3 | 5393.304 | 48.57       | 32.35        | 7.12   | 41.87 | 48.79  | 74.00  | -25.21 | Peak    |
| 4 | 5393.304 | 37.73       | 32.35        | 7.12   | 41.87 | 37.95  | 54.00  | -16.05 | Average |
| 5 | 5921.334 | 49.30       | 32.68        | 7.91   | 42.04 | 50.62  | 74.00  | -23.38 | Peak    |
| 6 | 5921.334 | 38.14       | 32.68        | 7.91   | 42.04 | 39.46  | 54.00  | -14.54 | Average |

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are at least 20 dB below the limit and not show in test report.