



**TEST REPORT**  
**FEDERAL COMMUNICATIONS COMMISSION**  
**FOR WIRELESS POWER TRANSFER**

|                             |                                                                                                                                                                                                     |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Report Number.....          | ITA26B06001232W 001                                                                                                                                                                                 |
| Test date .....             | 2026-06-27 to 2026-07-27                                                                                                                                                                            |
| Issue date .....            | 2026-07-27                                                                                                                                                                                          |
| Total number of pages ..... | 20                                                                                                                                                                                                  |
| Standard/According to ..... | FCC CFR Title 47 Part 15 Subpart C<br>ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to<br>C63.10a-2024                                                                                       |
| Template version .....      | V2.0                                                                                                                                                                                                |
| Testing Laboratory .....    | Itestek Testing Co., Ltd. (Dongguan)                                                                                                                                                                |
| Address .....               | Room 116, Building 8 and Room 606, Building 3, Innovation Port of<br>Hanyuwan, Liyuan Road, Tangwei, Fuhai Subdistrict, Bao'an District,<br>Shenzhen, Guangdong, 518000, People's Republic of China |
| Tested by .....             | Tom Zhang <i>tom zhang</i>                                                                                                                                                                          |
| Checked by .....            | Oliver Qiao <i>Oliver Qiao</i>                                                                                                                                                                      |
| Approved by .....           | Rock Huang <i>Rock Huang</i>                                                                                                                                                                        |
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| Address .....               | Room 201, 302, 401 of A4 Building, Block A, Fangxing Science and<br>Technology Park, No. 13 of Baonan Road, Longgang District, Shenzhen,<br>China                                                   |
| Manufacturer's name.....    | Shenzhen Powerqi Technology Co., Ltd                                                                                                                                                                |
| Address .....               | Room 201, 302, 401 of A4 Building, Block A, Fangxing Science and<br>Technology Park, No. 13 of Baonan Road, Longgang District, Shenzhen,<br>China                                                   |
| Factory's name .....        | Shenzhen Powerqi Technology Co., Ltd                                                                                                                                                                |
| Address .....               | Room 201, 302, 401 of A4 Building, Block A, Fangxing Science and<br>Technology Park, No. 13 of Baonan Road, Longgang District, Shenzhen,<br>China                                                   |
| Trade Mark.....             | N/A                                                                                                                                                                                                 |
| Product description .....   | Magnetic Wireless Charger                                                                                                                                                                           |
| Model/Type reference.....   | MQ07                                                                                                                                                                                                |
| Ratings.....                | Input: 5Vdc, 3A; 9Vdc, 3A; 12Vdc, 2.5A; 15Vdc, 2A<br>Output: 25W Max                                                                                                                                |
| FCC ID .....                | 2AFP2-MQ07                                                                                                                                                                                          |
| Test result.....            | Pass                                                                                                                                                                                                |

**Declare:**

1. This report shall not be partially reproduced without the consent of the laboratory.
2. If the report without tester's signature, auditor's signature, approver's signature and inspection seal, the report is invalid.
3. The test results are valid only for the tested samples.
4. After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.
5. If the report is not stamped with the accreditation recognized seal, it will only be used for scientific research, education, and internal quality control activities, and is not used for the purpose of issuing supporting data to the society.

**Testing laboratory:**

Itestek Testing Co., Ltd. (Dongguan)

Room 116, Building 8 and Room 606, Building 3, Innovation Port of Hanyuwan, Liyuan Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518000, People's Republic of China

FCC designation number CN1436

A2LA has accredited, certificate Number 7609.01

**1. Summary of test results**

| Requirement                      | CFR47 Section | Result |
|----------------------------------|---------------|--------|
| Antenna requirement              | §15.203       | PASS   |
| AC Power Line Conducted Emission | §15.207       | PASS   |
| Spurious Emission                | §15.209       | PASS   |
| Occupied Bandwidth               | §15.215(c)    | PASS   |

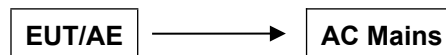
## 2. General test information

### 2.1. Description of EUT

Details of technical specification refer to the description in follows:

|                        |                 |
|------------------------|-----------------|
| Test model number      | MQ07            |
| Model different        | /               |
| Frequency range (Hz)   | 115K-205K, 360K |
| Modulation technique   | ASK             |
| Antenna type           | Coil Antenna    |
| Antenna gain           | 0 dBi           |
| Temperature range (°C) | -20 ~ 80        |
| Hardware version       | V1.0            |
| Software version       | V1.0            |

Block diagram EUT configuration for test



### 2.2. Test modes

| Mode | Test Status                                                         |
|------|---------------------------------------------------------------------|
| 1    | AC Mains + Mobile phone charging mode for output 5W (111K-148K Hz)  |
| 2    | AC Mains + Mobile phone charging mode for output 7.5W (111K-148KHz) |
| 3    | AC Mains + Mobile phone charging mode for output 10W (111K-148KHz)  |
| 4    | AC Mains + Mobile phone charging mode for output 15W (360KHz)       |
| 5    | AC Mains + Mobile phone charging mode for output 25W (360KHz)       |
| 6    | AC Mains + standby mode                                             |

Remark:

The aforementioned testing modes were all conducted under battery Status  $\leq 1\%$  (full load), battery Status  $\approx 50\%$  (half load), and battery Status  $\geq 99\%$  (no load) conditions.

After testing, it was found that the test data under battery Status  $\leq 1\%$  (full load) condition is the worst-case.

The report reflecting only the worst-case test data.

When the equipment starts to working, after detecting the handshake protocol of the load, the equipment's handshake protocol starts from a low-power operating frequency and detects up to a high-power operating frequency, then initiates high-power output. Therefore, the phenomenon of both low-power operating frequencies and high-power operating frequencies coexisting occurs.

**2.3. Test environment conditions**

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

|                               |        |
|-------------------------------|--------|
| <b>Temperature range (°C)</b> | 15-35  |
| <b>Humidity range (%)</b>     | 30-75  |
| <b>Pressure range (kPa)</b>   | 85-105 |

**2.4. Test environment conditions**

| Item | Equipment           | Mfr/Brand | Model / Type          | Series No. | Note                                                                                                                                                                                                                      |
|------|---------------------|-----------|-----------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Load                | Apple     | Iphone 17             | --         | Wireless charging of phone: 5W, 7.5W, 15W, 25W                                                                                                                                                                            |
| 2    | Load                | Apple     | AirPods               | --         | Wireless charging of earbuds: 2.5W, 5W                                                                                                                                                                                    |
| 3    | Load                | Apple     | Apple Watch Series 10 | --         | Wireless charging of watch: Max. 5W                                                                                                                                                                                       |
| 4    | Load                | YBT       | P<br>V3.1-Qi2.2/MPP   | --         | Wireless charging of phone: 5W, 7.5W, 10W, 15W, 25W                                                                                                                                                                       |
| 5    | Load                | YBT       | E V1.0                | --         | Wireless charging of earbuds: 2.5W, 3W, 5W                                                                                                                                                                                |
| 6    | Load                | YBT       | W V2.04               | --         | Wireless charging of watch: Max. 5W                                                                                                                                                                                       |
| 7    | HUAWEI Super Charge | Huawei    | HW-2005C02            | --         | Input:<br>100-240Vac,<br>50/60Hz, 2.4A<br>Output:<br>USB-C<br>5Vdc, 3A;<br>9Vdc, 3A;<br>10Vdc, 4A;<br>11Vdc, 6A;<br>12Vdc, 3A;<br>15Vdc, 3A;<br>20Vdc, 5A;<br>USB-A<br>5Vdc, 2A;<br>10Vdc, 4A;<br>11Vdc, 6A;<br>20Vdc, 5A |

**Remark:**

The test utilized HUAWEI Super Charge, and the input voltage of HUAWEI Super Charge was 120Vac, 60Hz.

**2.5. Measurement uncertainty**

| Test Item                                                 | Uncertainty           |
|-----------------------------------------------------------|-----------------------|
| Uncertainty for Conduction emission test                  | 3.30 dB               |
| Uncertainty for Radiation Emission test for 30MHz to 1GHz | 4.12 dB (Polarize: V) |
|                                                           | 4.54 dB (Polarize: H) |
| Uncertainty for Radiation Emission test for 9KHz to 30Mhz | 4.11 dB (Polarize: V) |
|                                                           | 4.15 dB (Polarize: H) |
| Radio Frequency                                           | ±20Hz                 |

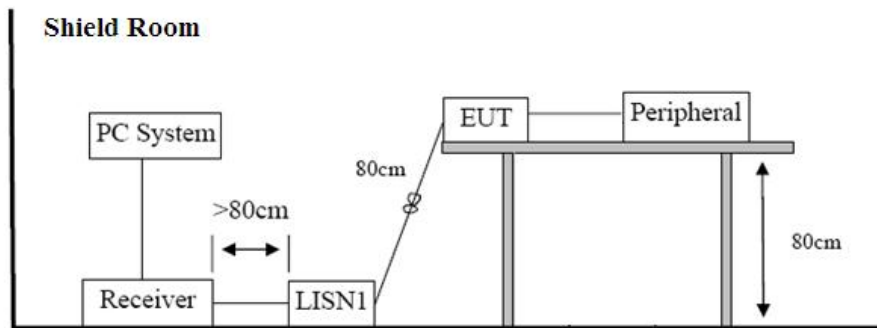
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

### 3. Disturbance voltages (Mains terminals)

#### 3.1 Test equipment

| Item | Equipment            | Manufacturer | Model No.    | Serial No. | Calibrated until |
|------|----------------------|--------------|--------------|------------|------------------|
| 1    | Test receiver        | R&S          | ESPI         | 100108     | 2027-03-17       |
| 2    | LISN                 | Schwarzbeck  | NSLK8127     | 005092     | 2027-01-04       |
| 3    | Limiter              | Schwarzbeck  | VTSD9561 F-N | 000918     | 2027-01-04       |
| 3    | LISN                 | Schwarzbeck  | NSLK8127     | 8127432    | 2026-11-18       |
| 4    | RF cable             | Huber        | LEX30        | /          | 2027-01-04       |
| 6    | Measurement software | Tongscent    | TS+ (V:1.0)  | N/A        | N/A              |

#### 3.2 Block diagram of test setup



#### 3.3 Limits for conducted disturbance at the mains ports

| Frequency    | At mains terminals (dB $\mu$ V) |               |
|--------------|---------------------------------|---------------|
|              | Quasi-peak Level                | Average Level |
| 150k-0.5MHz  | 66 ~ 56*                        | 56 ~ 46*      |
| 0.5M-5.0MHz  | 56                              | 46            |
| 5.0M-30.0MHz | 60                              | 50            |

Note1: Decreasing linearly with logarithm of frequency.

Note2: The lower limit shall apply at the transition frequencies.

#### 3.4 Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). It provides a 50 ohm / 50  $\mu$ H coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50 ohm / 50  $\mu$ H coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photograph.)

Both sides of AC line are checked for the maximum conducted emission interference. In order to find the maximum emissions, the relating positions of equipment and all of the interference cables must be changed according to FCC PART 15 regulation: The measurement procedure on conducted emission interference.

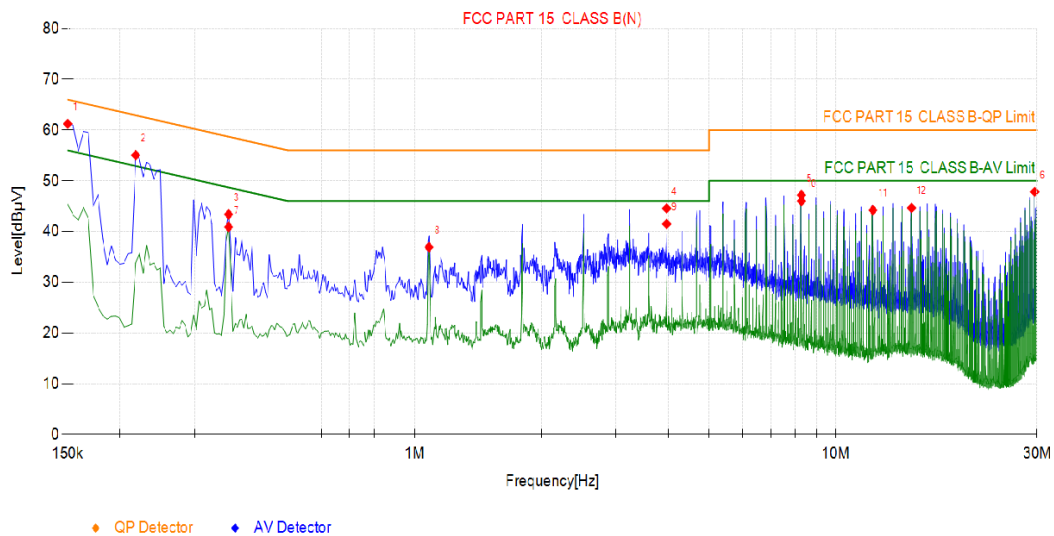
The resolution bandwidth of the field strength meter is set at 9 KHz.

#### 3.5 Test Result (See below detailed test result)

Note 1: All emissions not reported below are too low against the prescribed limits.

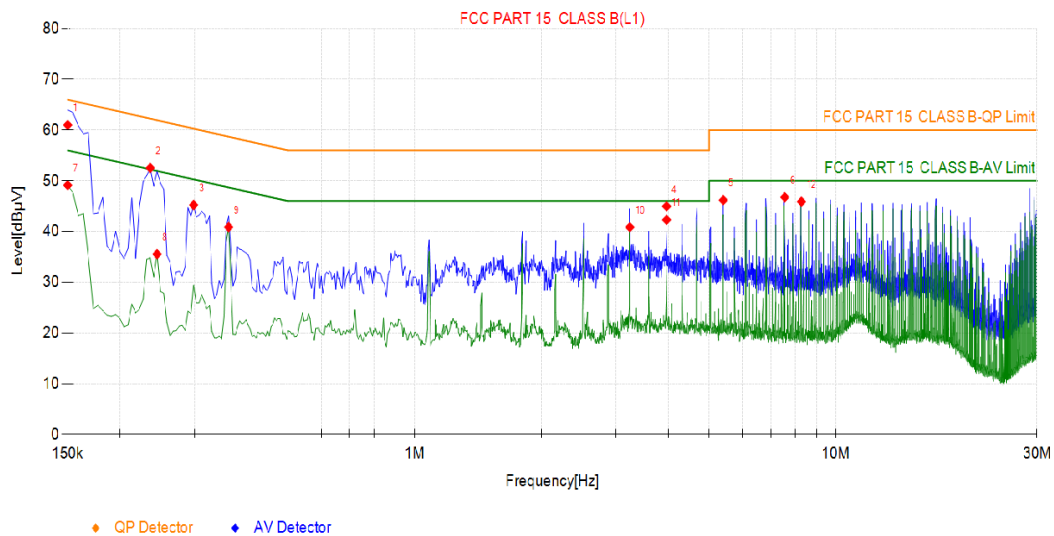
Note 2: Margin = Limit - Level.

Test mode 5



| Suspected List |             |              |             |              |             |          |         |
|----------------|-------------|--------------|-------------|--------------|-------------|----------|---------|
| NO.            | Freq. [MHz] | Level [dBμV] | Factor [dB] | Limit [dBμV] | Margin [dB] | Detector | Verdict |
| 1              | 0.15        | 61.23        | 10.69       | 66.00        | 4.77        | PK       | PASS    |
| 2              | 0.2175      | 55.05        | 10.74       | 62.95        | 7.90        | PK       | PASS    |
| 3              | 0.3615      | 43.39        | 10.82       | 58.73        | 15.34       | PK       | PASS    |
| 4              | 3.9615      | 44.56        | 11.01       | 56.00        | 11.44       | PK       | PASS    |
| 5              | 8.2815      | 47.18        | 11.17       | 60.00        | 12.82       | PK       | PASS    |
| 6              | 29.6385     | 47.83        | 11.26       | 60.00        | 12.17       | PK       | PASS    |
| 7              | 0.3615      | 40.90        | 10.82       | 48.73        | 7.83        | AV       | PASS    |
| 8              | 1.0815      | 36.92        | 10.93       | 46.00        | 9.08        | AV       | PASS    |
| 9              | 3.9615      | 41.50        | 11.01       | 46.00        | 4.50        | AV       | PASS    |
| 10             | 8.2815      | 46.02        | 11.17       | 50.00        | 3.98        | AV       | PASS    |
| 11             | 12.2415     | 44.22        | 11.24       | 50.00        | 5.78        | AV       | PASS    |
| 12             | 15.1215     | 44.65        | 11.23       | 50.00        | 5.35        | AV       | PASS    |

Test mode 5



| Suspected List |             |              |             |              |             |          |         |
|----------------|-------------|--------------|-------------|--------------|-------------|----------|---------|
| NO.            | Freq. [MHz] | Level [dBμV] | Factor [dB] | Limit [dBμV] | Margin [dB] | Detector | Verdict |
| 1              | 0.15        | 61.00        | 10.73       | 66.00        | 5.00        | PK       | PASS    |
| 2              | 0.2355      | 52.54        | 10.80       | 62.31        | 9.77        | PK       | PASS    |
| 3              | 0.2985      | 45.23        | 10.84       | 60.33        | 15.10       | PK       | PASS    |
| 4              | 3.9615      | 44.98        | 11.07       | 56.00        | 11.02       | PK       | PASS    |
| 5              | 5.4015      | 46.19        | 11.13       | 60.00        | 13.81       | PK       | PASS    |
| 6              | 7.5615      | 46.77        | 11.17       | 60.00        | 13.23       | PK       | PASS    |
| 7              | 0.15        | 49.14        | 10.73       | 56.00        | 6.86        | AV       | PASS    |
| 8              | 0.2445      | 35.55        | 10.80       | 52.06        | 16.51       | AV       | PASS    |
| 9              | 0.3615      | 40.88        | 10.85       | 48.73        | 7.85        | AV       | PASS    |
| 10             | 3.2415      | 40.86        | 11.03       | 46.00        | 5.14        | AV       | PASS    |
| 11             | 3.9615      | 42.31        | 11.07       | 46.00        | 3.69        | AV       | PASS    |
| 12             | 8.2815      | 45.89        | 11.19       | 50.00        | 4.11        | AV       | PASS    |

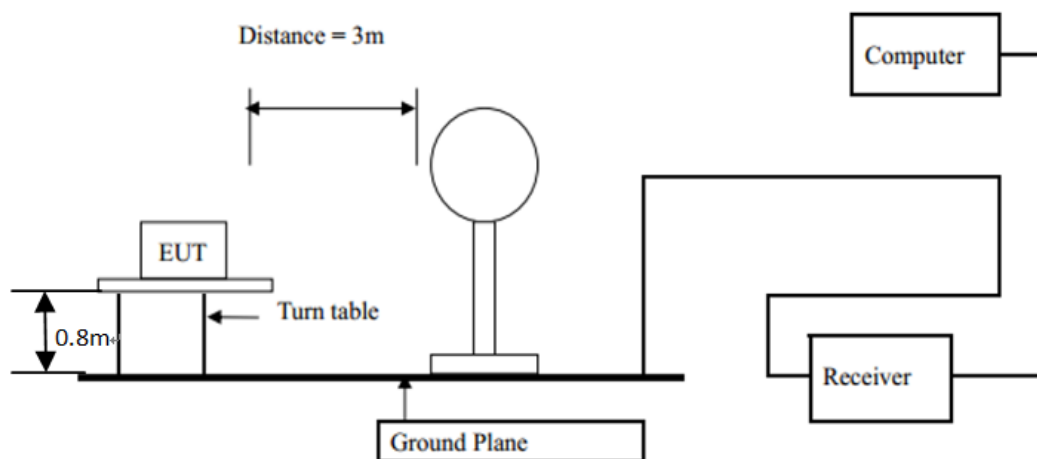
#### 4. Radiated disturbance test

##### 4.1 Test equipment

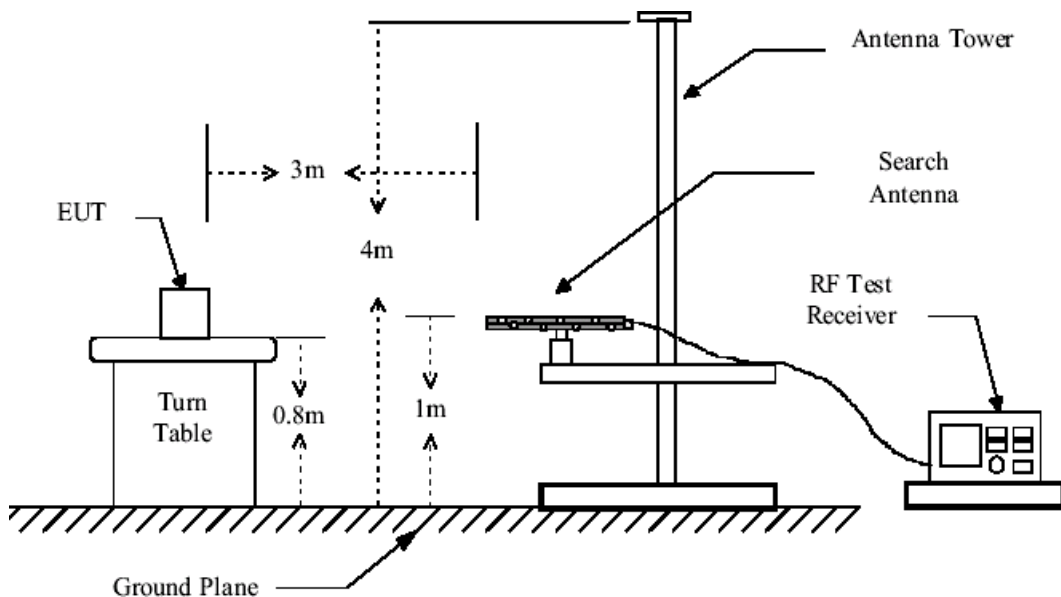
| Item | Equipment                | Manufacturer | Model No.   | Serial No.  | Calibrated until |
|------|--------------------------|--------------|-------------|-------------|------------------|
| 1    | EMI test receiver        | R&S          | ESCI 7      | 100969      | 2027-01-04       |
| 2    | Trilog broadband antenna | Schwarzbeck  | VULB9168    | 01326       | 2027-03-20       |
| 3    | Pre-amplifier            | R&S          | TAP9K3G32   | AP211806164 | 2027-01-04       |
| 4    | RF Cable                 | Huber        | LEX15       | N/A         | 2027-01-04       |
| 5    | RF Cable                 | Huber        | LEX100      | N/A         | 2027-01-04       |
| 6    | Loop Antenna             | Teseq        | HLA6121     | 58357       | 2026-11-18       |
| 7    | 6dB attenuator           | Teseqametek  | LE263       | 60581       | 2027-01-04       |
| 8    | Measurement software     | Tongscint    | TS+ (V:1.0) | N/A         | N/A              |

##### 4.2 Block diagram of test setup

For radiated emissions below 30MHz



For radiated emissions 30MHzto 1GHz



#### 4.3 Radiated disturbance limit

| Frequency   | Measurement<br>(micro volts/meter)<br>Distance(meters) | Field Strength |
|-------------|--------------------------------------------------------|----------------|
| 0.009-0.490 | 2400/F(KHz)                                            | 300            |
| 0.490-1.705 | 24000/F(KHz)                                           | 30             |
| 1.705-30    | 30                                                     | 30             |
| 30-88       | 100                                                    | 3              |
| 88-216      | 150                                                    | 3              |
| 216-960     | 200                                                    | 3              |
| Above 960   | 500                                                    | 3              |

#### 4.4 Test Procedure

The EUT and its simulators are placed on turn table, non-conductive and wooden table, which is 0.8 meter above ground. The turn table rotates 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that distance from antenna to the EUT is 3 meters. For the frequency range is above 1 GHz, the EUT was positioned such that distance from antenna to the EUT is 3 meters.

The antenna is moved up and down between 1 meter to 4 meters to receive the maximum emission level. below 30MHz, The antenna is 1meter.

Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission, all of the interference cables must be manipulated according to FCC PART 15 regulation: the test procedure of the radiated emission measurement.

Receiver Setup:

| Frequency    | Detector   | RBW    | VBW    | Remark           |
|--------------|------------|--------|--------|------------------|
| 9kHz-150kHz  | Quasi-peak | 200Hz  | 1kHz   | Quasi-peak Value |
| 150kHz-30MHz | Quasi-peak | 9kHz   | 30kHz  | Quasi-peak Value |
| 30MHz-1GHz   | Quasi-peak | 100KHz | 300KHz | Quasi-peak Value |

Note: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 KHz, 110-490KHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

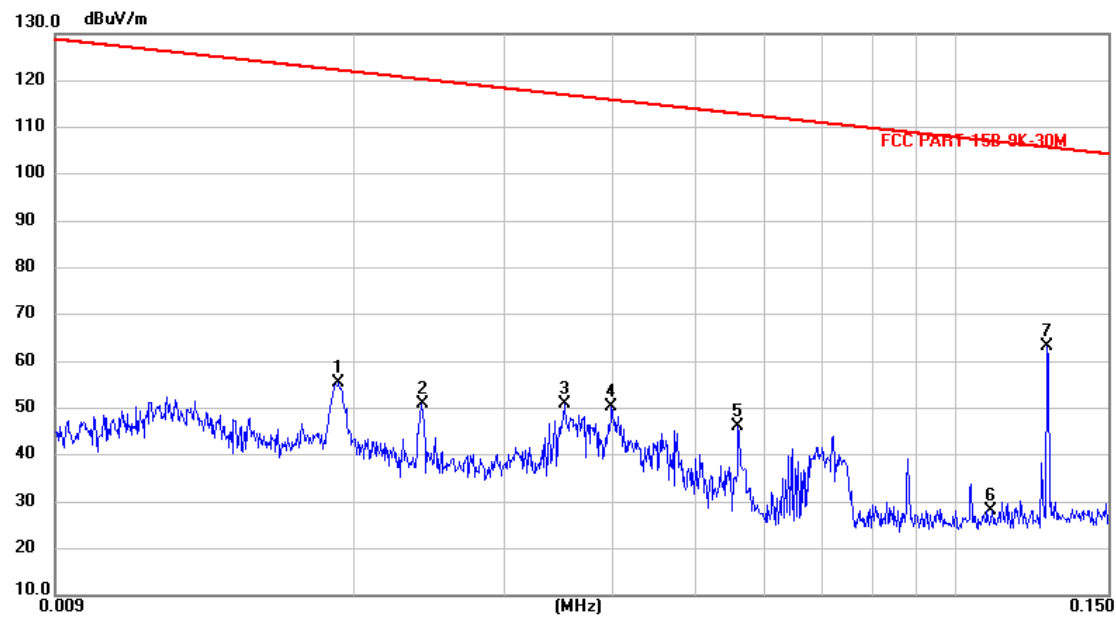
#### 4.5 Test result (See below detailed test result)

See below detailed test result

Note 1: All emissions not reported below are too low against the prescribed limits.

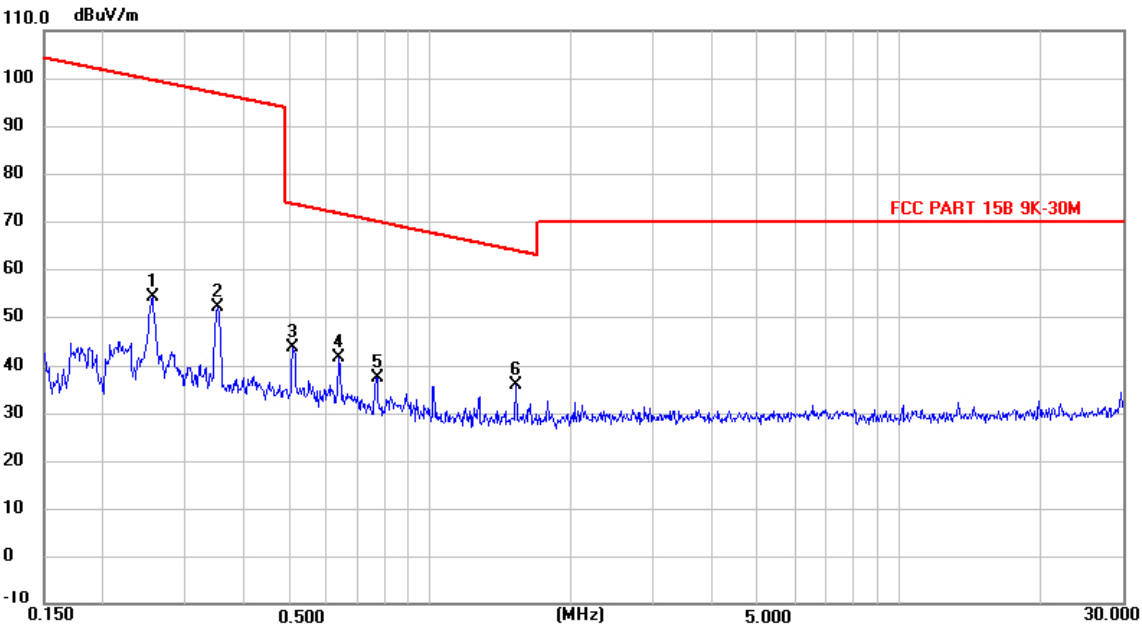
Note 2: Factor = Antenna Factor + Cable Loss – Amp Factor, Margin = Limit – Level

Test mode 5



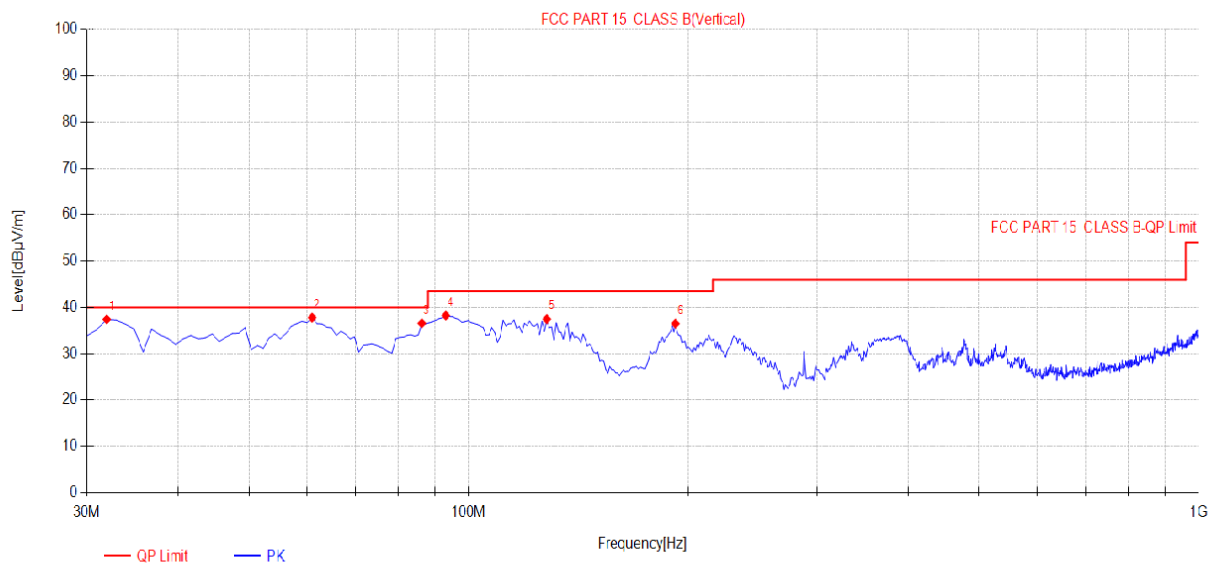
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 0.0192          | 35.09          | 20.36         | 55.45          | 122.20         | -66.75      | peak     | 100         | 360            | P   |        |
| 2   | 0.0241          | 30.86          | 20.08         | 50.94          | 120.22         | -69.28      | peak     | 100         | 360            | P   |        |
| 3   | 0.0353          | 31.34          | 19.64         | 50.98          | 116.90         | -65.92      | peak     | 100         | 360            | P   |        |
| 4   | 0.0399          | 30.65          | 19.66         | 50.31          | 115.84         | -65.53      | peak     | 100         | 360            | P   |        |
| 5   | 0.0560          | 26.59          | 19.46         | 46.05          | 112.88         | -66.83      | peak     | 100         | 360            | P   |        |
| 6   | 0.1100          | 8.74           | 19.51         | 28.25          | 107.01         | -78.76      | peak     | 100         | 360            | P   |        |
| 7 * | 0.1276          | 43.85          | 19.50         | 63.35          | 105.71         | -42.36      | peak     | 100         | 360            | P   |        |

Test mode 5



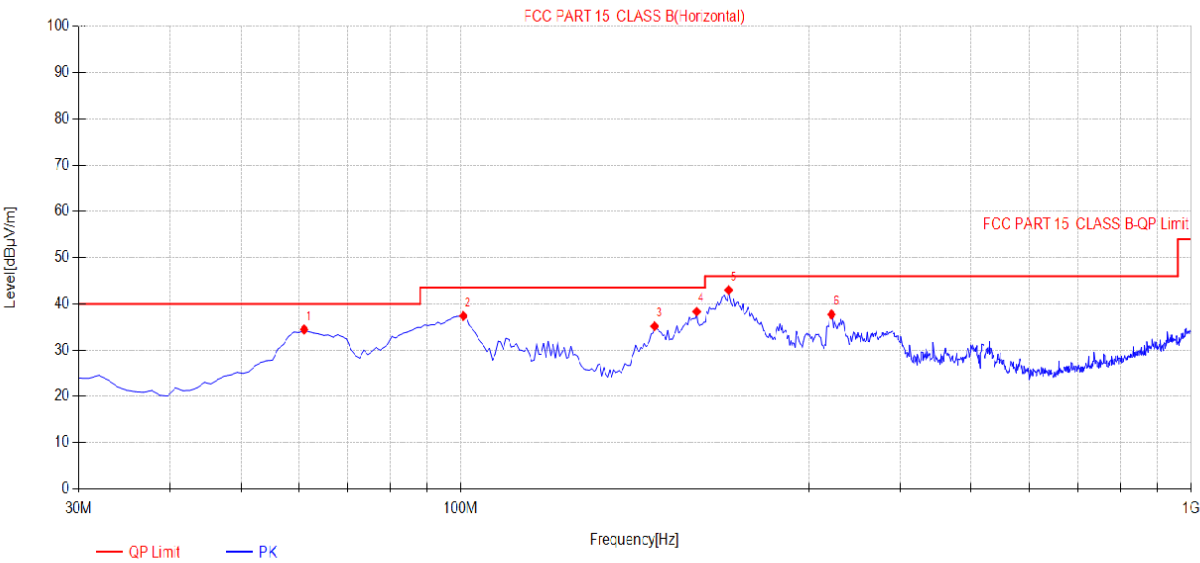
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1   | 0.2550          | 34.89          | 19.39         | 54.28          | 99.69          | -45.41      | peak     | 100         | 0              | P   |        |
| 2   | 0.3607          | 32.93          | 19.44         | 52.37          | 97.99          | -45.62      | peak     | 100         | 0              | P   |        |
| 3   | 0.5097          | 24.23          | 19.47         | 43.70          | 73.65          | -29.95      | peak     | 100         | 0              | P   |        |
| 4   | 0.6397          | 22.33          | 19.48         | 41.81          | 71.65          | -29.84      | peak     | 100         | 0              | P   |        |
| 5   | 0.7675          | 18.00          | 19.55         | 37.55          | 70.04          | -32.49      | peak     | 100         | 0              | P   |        |
| 6 * | 1.5314          | 16.42          | 19.61         | 36.03          | 63.95          | -27.92      | peak     | 100         | 0              | P   |        |

Test mode 5

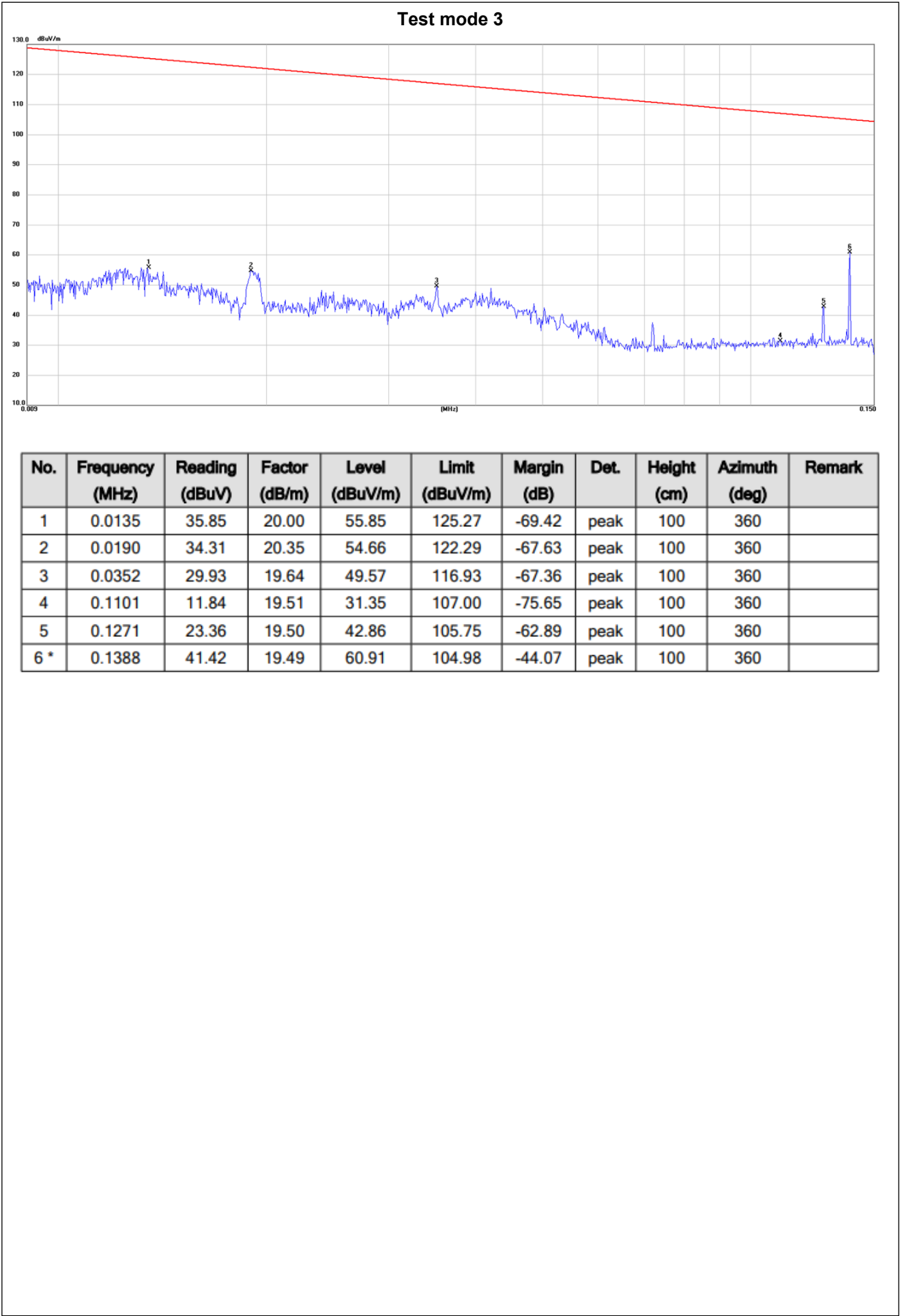


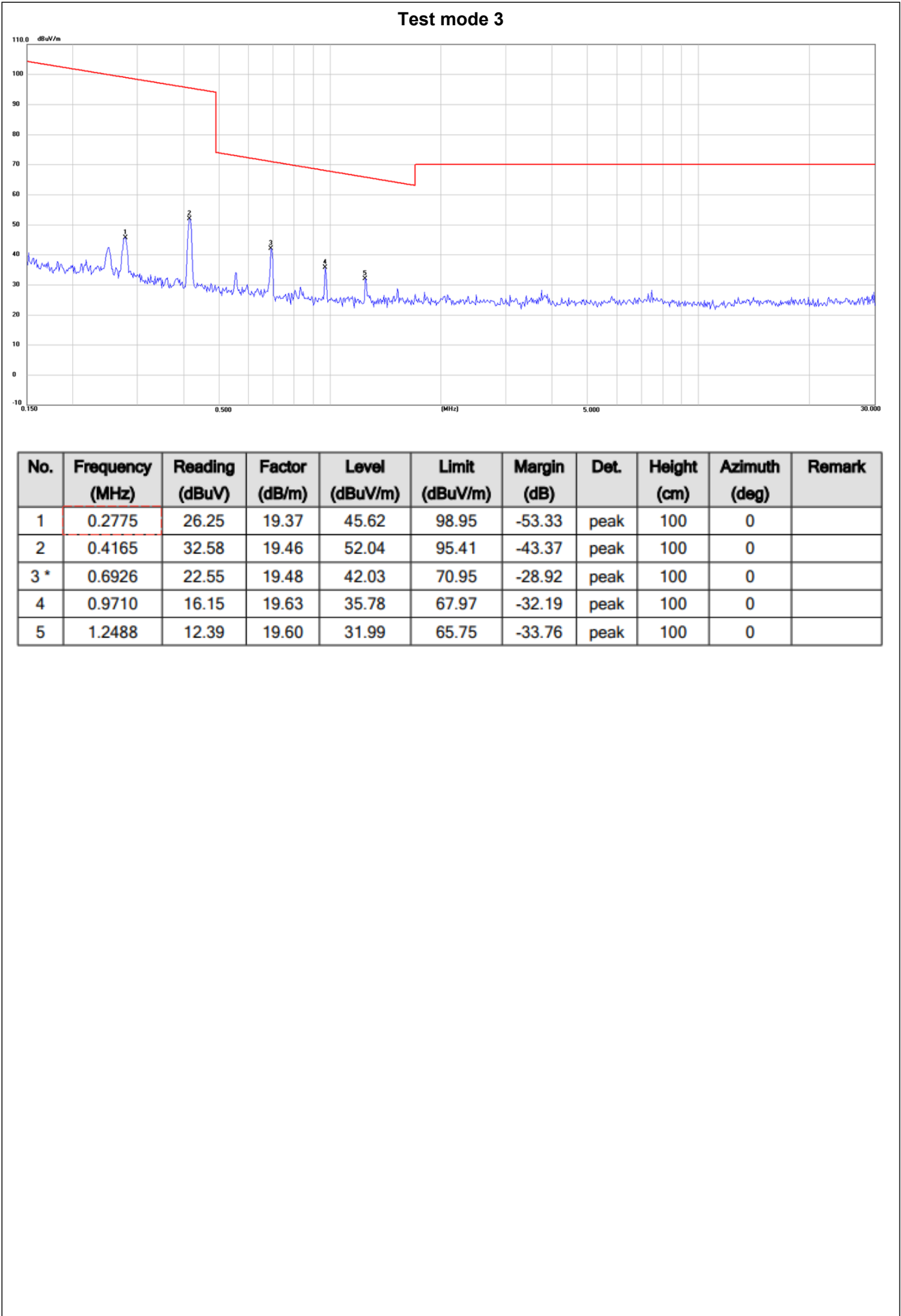
| Suspected Data List |             |                |             |                |             |             |           |          |
|---------------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.                 | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1                   | 31.94       | 37.42          | -14.50      | 40.00          | 2.58        | 100         | 357       | Vertical |
| 2                   | 61.04       | 37.80          | -13.82      | 40.00          | 2.20        | 100         | 11        | Vertical |
| 3                   | 86.26       | 36.57          | -17.58      | 40.00          | 3.43        | 100         | 68        | Vertical |
| 4                   | 93.05       | 38.25          | -17.28      | 43.50          | 5.25        | 100         | 95        | Vertical |
| 5                   | 127.97      | 37.48          | -14.15      | 43.50          | 6.02        | 100         | 21        | Vertical |
| 6                   | 191.99      | 36.49          | -15.59      | 43.50          | 7.01        | 100         | 290       | Vertical |

Test mode 5

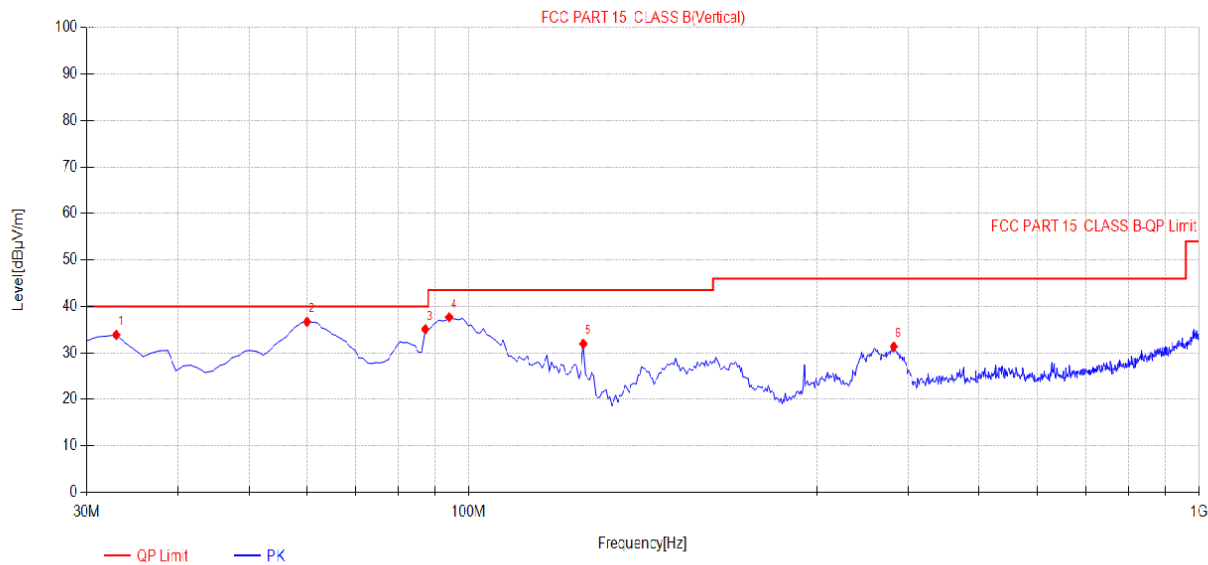


| Suspected Data List |             |                |             |                |             |             |           |            |
|---------------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.                 | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1                   | 61.04       | 34.48          | -13.82      | 40.00          | 5.52        | 100         | 23        | Horizontal |
| 2                   | 100.81      | 37.40          | -16.70      | 43.50          | 6.10        | 200         | 64        | Horizontal |
| 3                   | 184.23      | 35.18          | -15.89      | 43.50          | 8.32        | 200         | 0         | Horizontal |
| 4                   | 210.42      | 38.34          | -14.76      | 43.50          | 5.16        | 100         | 137       | Horizontal |
| 5                   | 232.73      | 42.98          | -13.61      | 46.00          | 3.02        | 100         | 150       | Horizontal |
| 6                   | 321.97      | 37.73          | -9.02       | 46.00          | 8.27        | 100         | 137       | Horizontal |





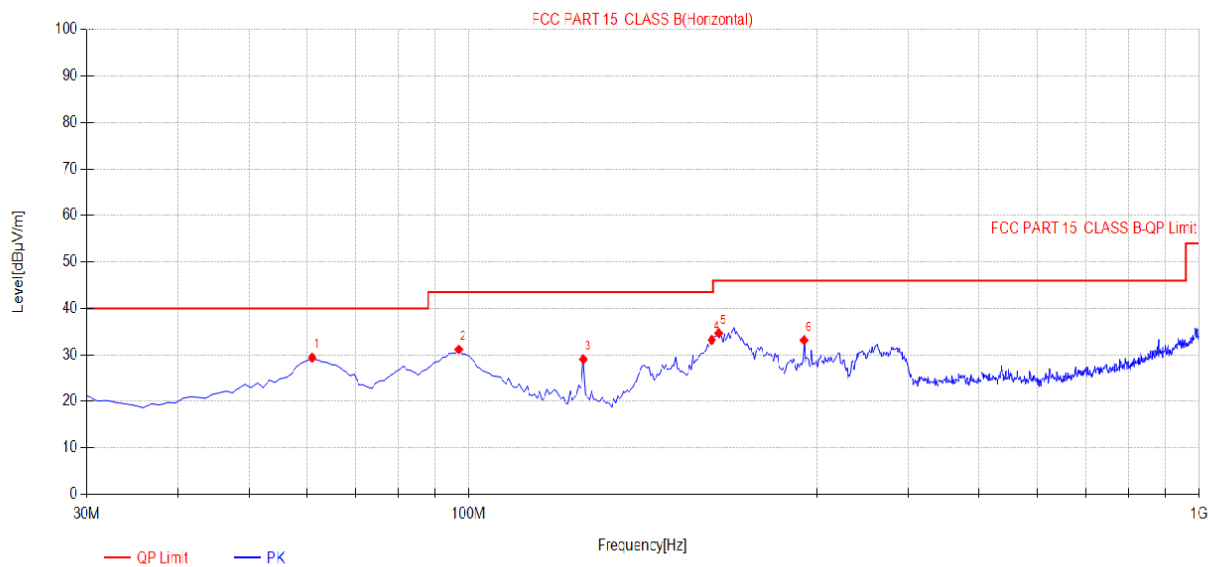
Test mode 3



Suspected Data List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 32.91       | 33.88          | -14.38      | 40.00          | 6.12        | 100         | 238       | Vertical |
| 2   | 60.07       | 36.69          | -13.71      | 40.00          | 3.31        | 100         | 103       | Vertical |
| 3   | 87.23       | 35.09          | -17.56      | 40.00          | 4.91        | 100         | 97        | Vertical |
| 4   | 94.02       | 37.68          | -17.21      | 43.50          | 5.82        | 100         | 123       | Vertical |
| 5   | 143.49      | 31.95          | -13.69      | 43.50          | 11.55       | 100         | 357       | Vertical |
| 6   | 382.11      | 31.35          | -8.35       | 46.00          | 14.65       | 100         | 3         | Vertical |

Test mode 3



| Suspected Data List |             |                |             |                |             |             |           |            |
|---------------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.                 | Freq. [MHz] | Level [dBµV/m] | Factor [dB] | Limit [dBµV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1                   | 61.04       | 29.40          | -13.82      | 40.00          | 10.60       | 200         | 3         | Horizontal |
| 2                   | 96.93       | 31.19          | -17.00      | 43.50          | 12.31       | 200         | 62        | Horizontal |
| 3                   | 143.49      | 29.06          | -13.69      | 43.50          | 14.44       | 200         | 297       | Horizontal |
| 4                   | 215.27      | 33.22          | -14.53      | 43.50          | 10.28       | 100         | 144       | Horizontal |
| 5                   | 220.12      | 34.67          | -14.29      | 46.00          | 11.33       | 100         | 137       | Horizontal |
| 6                   | 288.02      | 33.16          | -10.94      | 46.00          | 12.84       | 100         | 157       | Horizontal |

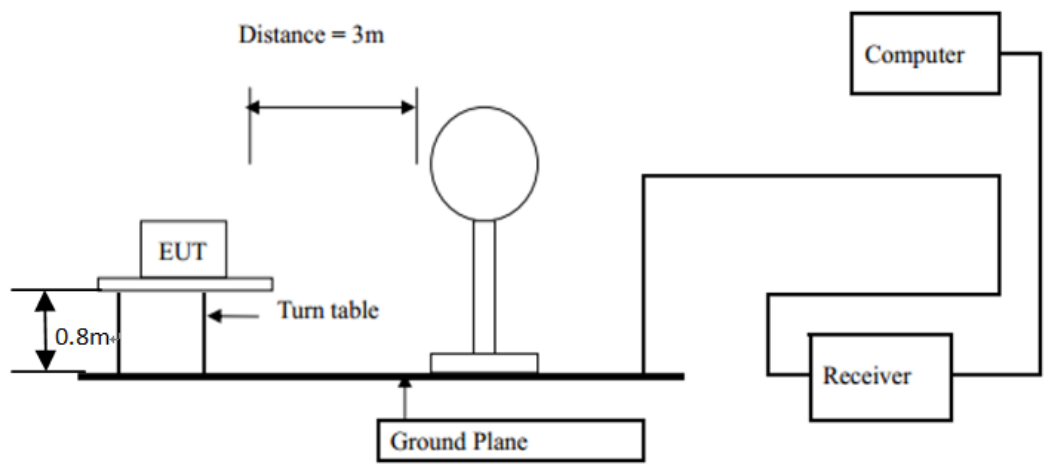
## 5. Occupied Bandwidth

### 5.1 Test equipment

| Item | Equipment                | Manufacturer | Model No. | Serial No.  | Calibrated until |
|------|--------------------------|--------------|-----------|-------------|------------------|
| 1    | EMI test receiver        | R&S          | ESCI 7    | 100969      | 2027-01-04       |
| 2    | Loop antenna             | TESEQ        | HLA6121   | 58357       | 2027-01-04       |
| 3    | Trilog broadband antenna | Schwarzbeck  | VULLB9168 | 01326       | 2027-03-20       |
| 4    | Pre-amplifier            | R&S          | TAP9K3G32 | AP211806164 | 2027-01-04       |
| 5    | RF cable                 | HUBER        | LEX15     | N/A         | 2027-01-04       |
| 6    | RF cable                 | HUBER        | LEX100    | N/A         | 2027-01-04       |

### 5.2 Block diagram of test setup

For radiated emissions below 30MHz



### 5.3 Test Procedure

According to the above Test-setup, keep the relative position between the artificial antenna and the EUT.

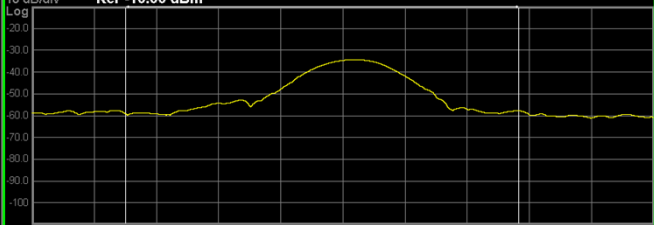
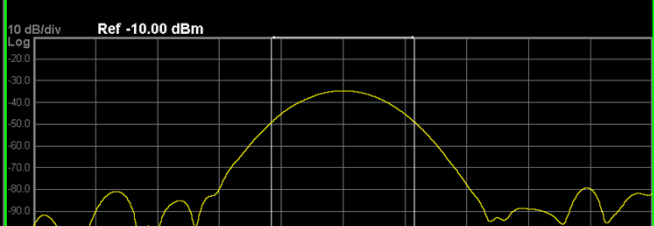
Set to the maximum power setting and enable the EUT transmit continuously.

Use the following spectrum analyzer settings for 20dB Bandwidth measurement.

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW  $\geq$  1% of the 20 dB bandwidth; VBW  $\geq$  RBW; Sweep=auto; Detector function= peak; Trace = max hold.

Measurements record the results in the test report.

5.4 Test result

| Frequency (KHz) | 20dB bandwidth (KHz) | Test detail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Result |
|-----------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 127.5           | 3.484                | <div><div>Center Freq 127.500 kHz</div><div>Center Freq: 127.500 kHz<br/>Trig: Free Run<br/>#IFGain:Low<br/>#Atten: 10 dB<br/>Avg Hold:&gt;10/10<br/>Radio Std: None<br/>Radio Device: BTS</div><div><div>10 dB/div</div><div>Log</div><div>Ref -10.00 dBm</div><div>Center 127.5 kHz<br/>#Res BW 1 kHz<br/>#VBW 3 kHz<br/>Span 10 kHz<br/>Sweep 12.4 ms</div></div><div><div>Occupied Bandwidth</div><div>6.309 kHz</div><div>Total Power</div><div>-33.8 dBm</div><div>Transmit Freq Error</div><div>-325 Hz</div><div>% of OBW Power</div><div>99.00 %</div><div>x dB Bandwidth</div><div>3.484 kHz</div><div>x dB</div><div>-20.00 dB</div></div></div> | Pass   |
| 360.0           | 2.702                | <div><div>Center Freq 360.000 kHz</div><div>Center Freq: 360.000 kHz<br/>Trig: Free Run<br/>#IFGain:Low<br/>#Atten: 10 dB<br/>Avg Hold: 10/10<br/>Radio Std: None<br/>Radio Device: BTS</div><div><div>10 dB/div</div><div>Log</div><div>Ref -10.00 dBm</div><div>Center 360 kHz<br/>#Res BW 1 kHz<br/>#VBW 3 kHz<br/>Span 10 kHz<br/>Sweep 12.4 ms</div></div><div><div>Occupied Bandwidth</div><div>2.293 kHz</div><div>Total Power</div><div>-34.3 dBm</div><div>Transmit Freq Error</div><div>4 Hz</div><div>% of OBW Power</div><div>99.00 %</div><div>x dB Bandwidth</div><div>2.702 kHz</div><div>x dB</div><div>-20.00 dB</div></div></div>        | Pass   |