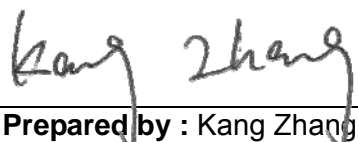
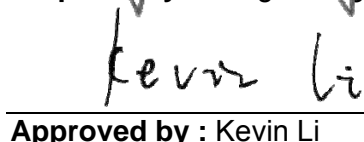


FCC EMC Test Report

Project No. : 1909C106
Equipment : Mobile Phone
Brand Name : OPPO
Test Model : CPH1941
Series Model : N/A
Applicant : GuangDong Oppo Mobile Telecommunications Corp., Ltd.
Address : NO. 18 HaiBin Road, WuSha village, Chang An Town, DongGuan City,Guangdong,China.
Manufacturer : GuangDong Oppo Mobile Telecommunications Corp., Ltd.
Address : NO. 18 HaiBin Road, WuSha village, Chang An Town, DongGuan City,Guangdong,China.
Factory : GuangDong Oppo Mobile Telecommunications Corp., Ltd.
Address : NO. 18 HaiBin Road, WuSha village, Chang An Town, DongGuan City,Guangdong,China.
Date of Receipt : Sep. 19, 2019
Date of Test : Sep. 21, 2019 ~ Sep. 30, 2019
Issued Date : Oct. 24, 2019
Report Version : R00
Test Sample : Engineering Sample No.: DG2019091946
Standard(s) : FCC Part 15, Subpart B

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.


Prepared by : Kang Zhang


Approved by : Kevin Li



Certificate #5123.02

Add: No.3, Jinshagang 1st Road, Shixia, Dalang Town,Dongguan, Guangdong, China.

Tel: +86-769-8318-3000

Web: www.newbtl.com

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

The report must not be used by the client to claim product certification, approval, or endorsement by NIST, A2LA, or any agency of the U.S. Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REPORT ISSUED HISTORY

| Report Version | Description | Issued Date |
|----------------|-----------------|---------------|
| R00 | Original Issue. | Oct. 24, 2019 |

1. SUMMARY OF TEST RESULTS

| Emission | | |
|-----------------|------------------------------------|--------|
| Ref Standard(s) | Test Item | Result |
| ANSI C63.4-2014 | AC Power Line Conducted Emissions | PASS |
| | Radiated Emissions 30 MHz to 1 GHz | PASS |
| | Radiated Emissions Above 1 GHz | PASS |

1.1 TEST FACILITY

The test facilities used to collect the test data in this report at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

| Test Site | Method | Measurement Frequency Range | U,(dB) |
|-----------|--------|-----------------------------|--------|
| DG-C02 | CISPR | 150 kHz ~ 30MHz | 2.32 |

B. Radiated emissions test:

| Test Site | Method | Measurement Frequency Range | Ant. H / V | U,(dB) |
|-----------------|--------|-----------------------------|---------------|--------|
| DG-CB08 (3m) | CISPR | 30MHz ~ 200MHz | V | 3.76 |
| | | 30MHz ~ 200MHz | H | 3.56 |
| | | 200MHz ~ 1,000MHz | V | 4.00 |
| | | 200MHz ~ 1,000MHz | H | 3.90 |

| Test Site | Method | Measurement Frequency Range | U,(dB) |
|-----------------|--------|-----------------------------|--------|
| DG-CB08 (3m) | CISPR | 1GHz ~ 6GHz | 4.02 |
| | | 6GHz ~ 18GHz | 5.10 |

| Test Site | Method | Measurement Frequency Range | U,(dB) |
|-----------------|--------|-----------------------------|--------|
| DG-CB08 (1m) | CISPR | 18 ~ 26.5 GHz | 3.82 |
| | | 26.5 ~ 40 GHz | 3.90 |

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

| Test Item | Temperature | Humidity | Tested By |
|------------------------------------|-------------|----------|-----------|
| AC Power Line Conducted Emissions | 25°C | 53% | Lorry Lao |
| Radiated emissions 30 MHz to 1 GHz | 25°C | 60% | Kwok Guo |
| Radiated emissions above 1 GHz | 25°C | 60% | Kwok Guo |

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

| | |
|--------------------------------|--|
| Equipment | Mobile Phone |
| Brand Name | OPPO |
| Test Model | CPH1941 |
| Series Model | N/A |
| Model Difference(s) | N/A |
| Hardware Version | ColorOS V6.0.1 |
| Software Version | TBD |
| Power Source | <ol style="list-style-type: none"> DC Voltage supplied from AC/DC adapter. 1# Model: OP52KAUH 2# Model: OP52JAUH 3# Model: OP52YAUH Supplied from Li-ion Polymer battery. 1# Factory / Model: NVT / BLP727 (NA-P727-92) 2# Factory / Model: Desay / BLP727 (DA-P727-923) 3# Factory / Model: Sunwoda / BLP727 (XA-P727-922) 4# Factory / Model: Desay / BLP727 (DD-P727-918) 5# Factory / Model: Desay / BLP727 (DA-P727-931) Supplied from USB port. |
| Power Rating | <ol style="list-style-type: none"> I/P:100-240V~ 50/60Hz 0.4A O/P:5V$\overline{\overline{\square}}$ 2A 3.87Vdc, 5000mAh/19.35Wh DC 5V |
| Connecting I/O Port(s) | 1* Earphone port 1* Type-C port |
| Classification of EUT | Class B |
| Highest Internal Frequency(Fx) | 5825 MHz |

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Mode | Description |
|--------------|--|
| Mode 1 | Adapter+ Idle+Playing+Speaker |
| Mode 2 | Adapter+ Idle+Playing+earphone |
| Mode 3 | Adapter+Idle+2.4G WIFI+BT+GPS+NFC+Camera on(Front) |
| Mode 4 | Adapter+Idle+2.4G WIFI+BT+GPS+NFC+Camera on(Rear) |
| Mode 5 | Adapter+Idle+5G WIFI+BT+GPS+NFC+Camera on(Front) |
| Mode 6 | Adapter+Traffic(GSM)(GSM850.900.1800.1900) |
| Mode 7 | Adapter+Traffic(WCDMA)(BAND1.2.4.5.6.8.19) |
| Mode 8 | Adapter+Traffic(LTE)(BAND1.2.3.4.5.7.8.18.19.20.26.28.38.39.40.41) |
| Mode 9 | FM 88MHz |
| Mode 10 | FM 98MHz |
| Mode 11 | FM 108MHz |
| Mode 12 | USB Copy + Idle |

| AC Power Line Conducted Emissions test | |
|--|--|
| Final Test Mode | Description |
| Mode 5 | Adapter+Idle+5G WIFI+BT+GPS+NFC+Camera on(Front) |

| Radiated Emissions 30 MHz to 1 GHz test | |
|---|--|
| Final Test Mode | Description |
| Mode 5 | Adapter+Idle+5G WIFI+BT+GPS+NFC+Camera on(Front) |

| Radiated emissions above 1 GHz test | |
|-------------------------------------|--|
| Final Test Mode | Description |
| Mode 5 | Adapter+Idle+5G WIFI+BT+GPS+NFC+Camera on(Front) |

| Item | Model | Factory/SN | config1 | config2 | config3 | config4 | config5 |
|-----------|----------|-------------------------|---------|---------|---------|---------|---------|
| Adapter | OP52KAUH | / | V | | | | |
| | OP52YAUH | / | | V | | | |
| | OP52JAUH | / | | | V | V | V |
| USB Cable | / | / | V | V | V | V | V |
| Battery | BLP727 | Desay /DA-P2727-923 | V | | | | |
| | BLP727 | Sunwoda /XA-P727-922 | | V | | | |
| | BLP727 | NVT/NA-P2727-92 | | | V | | |
| | BLP727 | Desay /DD-P727-918 | | | | V | |
| | BLP727 | Desay /DA-P727-931 | | | | | V |
| Earphone | / | / | V | V | V | V | V |

Evaluation description:

1. Mode 1: Tested config1-5. Config 1 is the worst case and tested Mode 2-11.
2. Mode 12 tested config 1-5.
3. Config1 with Mode 5 is the worst case and recorded in this report.

Note:

1. The product support BT function, the frequency of exemption is 2402- 2480MHz.
2. The frequency of 2.4G WIFI exemption is 2412-2472MHz.
3. The frequency of 5G WIFI exemption is 5180-5825MHz.

2.3 EUT OPERATING CONDITIONS

The EUT exercise program used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use. The standard test signals and output signal as following:

Mode 1-11:

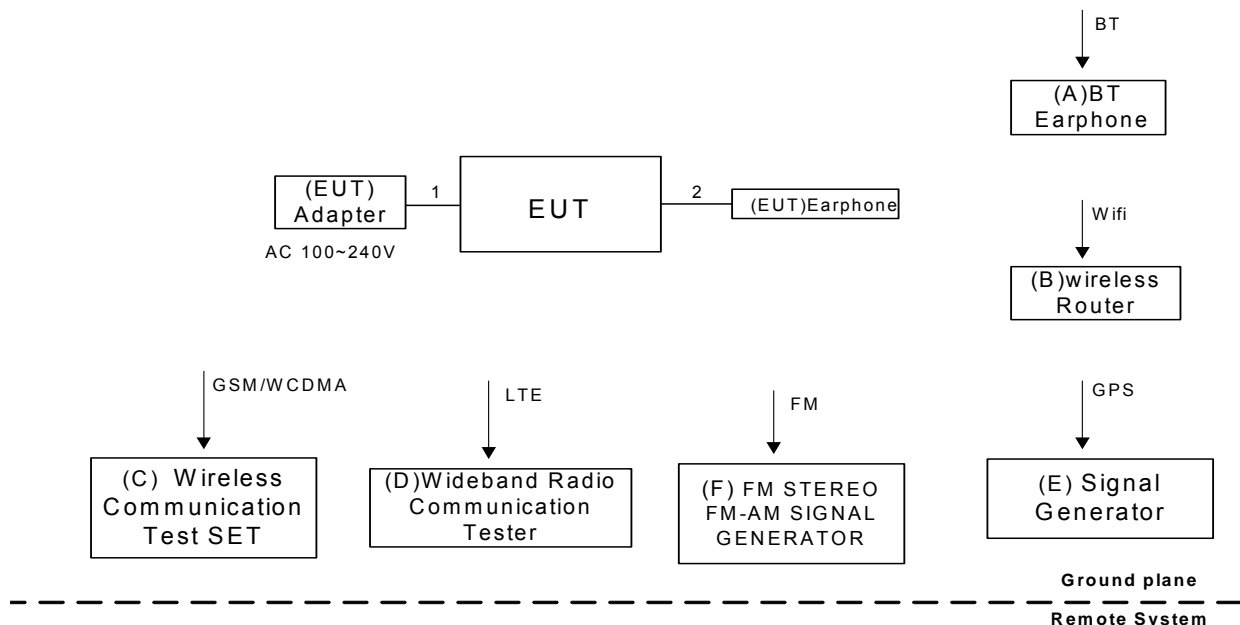
1. EUT connected to earphone via earphone cable.
2. EUT connected to adapter via USB cable.
3. EUT connected to router via WIFI function.
4. EUT connected to BT earphone via BT function.
5. EUT connected to wireless communication test SET via radio signal.
6. EUT connected to signal generator via radio signal.
7. EUT connected to wideband radio communication tester via radio signal.
8. EUT connected to FM STEREO FM-AM signal generator via FM function.

Mode 12:

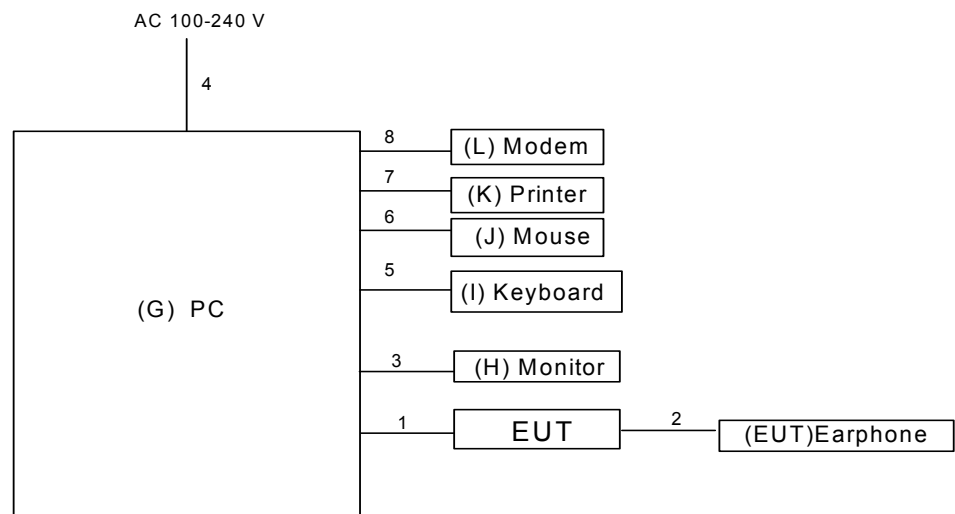
1. EUT connected to PC via USB cable.
2. PC connected to keyboard and mouse via USB cable.
3. PC connected to monitor via HDMI cable.
4. PC connected to printer via parallel cable.
5. PC connected to modem via RS232 cable.

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Mode 1-11



Mode 12



----- Ground plane -----
 Remote System

2.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. |
|------|-------------------------------------|-----------|----------------------|----------------------|
| A | BT earphone | MICROKIA | M9 | N/A |
| B | wireless router | ASUS | RT-AC66U | E8ICGG000138 |
| C | Wireless Communication Test SET | Agilent | (8960 Series) E5515C | MY48364183 |
| D | Wideband Radio Communication Tester | RS | CMW500 | 122125 |
| E | Signal Generator | Agilent | E4438C | MY49071316 |
| F | FM STEREO FM-AM SIGNAL GENERATOR | KENWOOD | SG-5110 | HR1010099 |
| G | PC | Dell 745 | DCSM | G7K832X |
| H | Monitor | PHILIPS | 241P6V | UHBA1633026326 |
| I | Keyboard | Dell | L100 | CNORH6596589071T08NE |
| J | Mouse | Dell | MO56UOA | FQJ000BS |
| K | Printer | SII | DPU-414 | 3018507 B |
| L | Modem | ACEEX | DM-1414V | 0603002131 |

| Item | Cable Type | Shielded Type | Ferrite Core | Length |
|------|----------------|---------------|--------------|--------|
| 1 | USB Cable | YES | NO | 1m |
| 2 | Earphone Cable | NO | NO | 1m |
| 3 | HDMI Cable | YES | NO | 1.8m |
| 4 | AC Cable | NO | NO | 1.8m |
| 5 | USB Cable | YES | NO | 1.8m |
| 6 | USB Cable | YES | NO | 1.8m |
| 7 | Parallel cable | YES | NO | 1.8m |
| 8 | RS232 cable | YES | NO | 1.8m |

3. EMC EMISSION TEST

3.1 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1.1 LIMIT

| Frequency of Emission (MHz) | Class B (dBuV) | |
|-----------------------------|----------------|-----------|
| | Quasi-peak | Average |
| 0.15 - 0.5 | 66 - 56 * | 56 - 46 * |
| 0.5 - 5.0 | 56.00 | 46.00 |
| 5.0 - 30.0 | 60.00 | 50.00 |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)
 Margin Level = Measurement Value - Limit Value

3.1.2 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------------|--------------|------------------------------|------------|------------------|
| 1 | EMI Test Receiver | R&S | ESCI | 100382 | Mar. 10, 2020 |
| 2 | LISN | EMCO | 3816/2 | 52765 | Mar. 10, 2020 |
| 3 | TWO-LINE V-NETWORK | R&S | ENV216 | 101447 | May. 19, 2020 |
| 4 | 50Ω Terminator | SHX | TF5-3 | 15041305 | Mar. 10, 2020 |
| 5 | Measurement Software | Farad | EZ-EMC Ver.NB-03A1 -01 | N/A | N/A |
| 6 | Cable | N/A | RG223 | 12m | Mar. 12, 2020 |

Remark: "N/A" denotes no model name, serial no. or calibration specified.
 All calibration period of equipment list is one year.

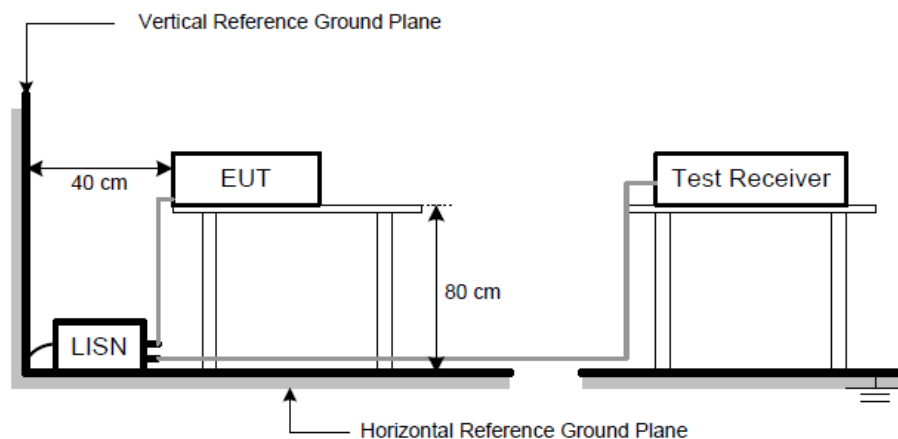
3.1.3 TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.
- Measuring frequency range from 150KHz to 30MHz.

3.1.4 DEVIATION FROM TEST STANDARD

No deviation

3.1.5 TEST SETUP

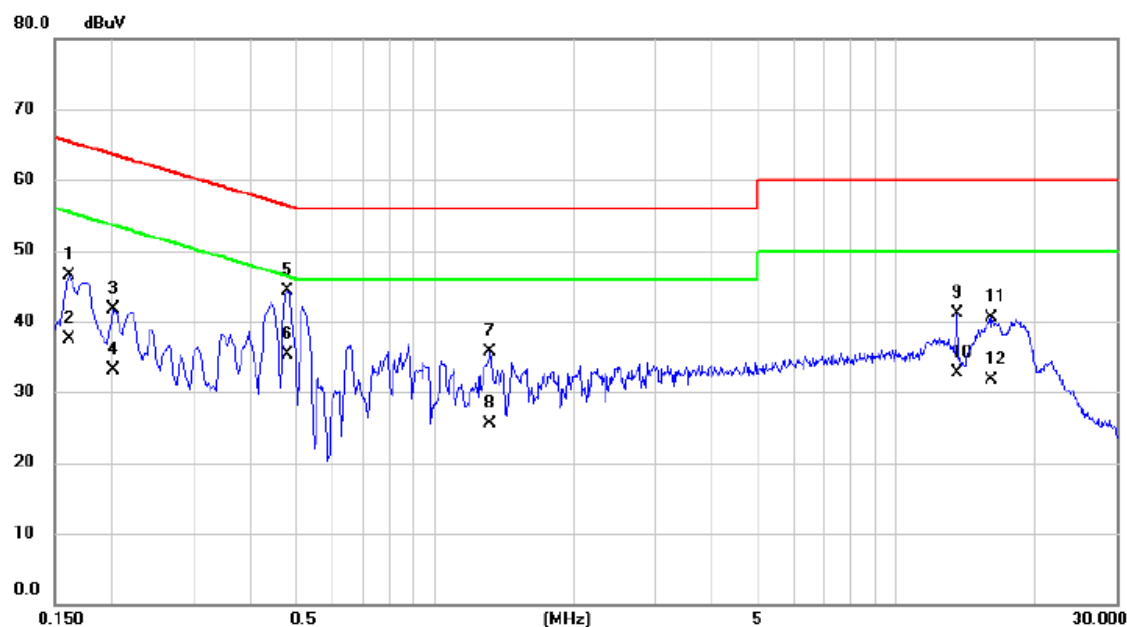


3.1.6 TEST RESULTS

Remark:

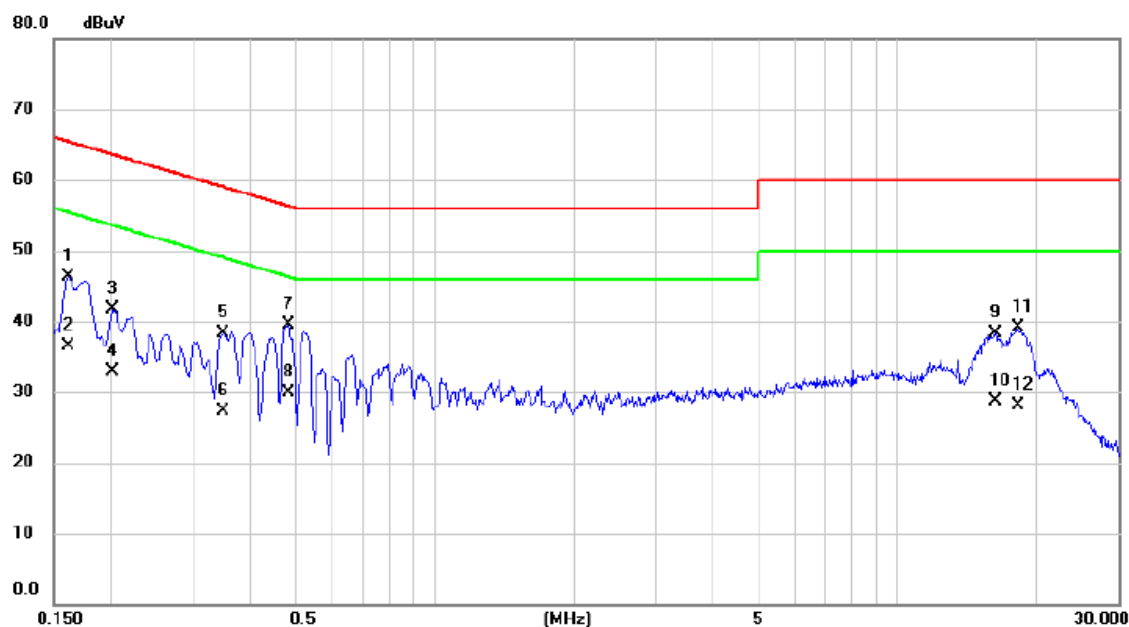
- Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9 kHz; SPA setting in RBW=10 kHz, VBW =10 kHz, Swp. Time = 0.3 sec./MHz. Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=10 kHz, VBW=10 kHz, Swp. Time =0.3 sec./MHz.
- All readings are QP Mode value unless otherwise stated AVG in column of 『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a “*” marked in AVG Mode column of Interference Voltage Measured.

| | | | |
|--------------|-----------------|-------|------|
| Test Voltage | AC 120V/60Hz | Phase | Line |
| Test Mode | Mode 5(Config1) | | |



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1 | | 0.1612 | 36.91 | 9.57 | 46.48 | 65.40 | -18.92 | QP | |
| 2 | | 0.1612 | 27.90 | 9.57 | 37.47 | 55.40 | -17.93 | AVG | |
| 3 | | 0.2017 | 32.22 | 9.56 | 41.78 | 63.54 | -21.76 | QP | |
| 4 | | 0.2017 | 23.60 | 9.56 | 33.16 | 53.54 | -20.38 | AVG | |
| 5 | | 0.4807 | 34.68 | 9.57 | 44.25 | 56.33 | -12.08 | QP | |
| 6 | * | 0.4807 | 25.80 | 9.57 | 35.37 | 46.33 | -10.96 | AVG | |
| 7 | | 1.3200 | 25.97 | 9.64 | 35.61 | 56.00 | -20.39 | QP | |
| 8 | | 1.3200 | 15.80 | 9.64 | 25.44 | 46.00 | -20.56 | AVG | |
| 9 | | 13.5600 | 30.83 | 10.32 | 41.15 | 60.00 | -18.85 | QP | |
| 10 | | 13.5600 | 22.40 | 10.32 | 32.72 | 50.00 | -17.28 | AVG | |
| 11 | | 16.0890 | 29.99 | 10.47 | 40.46 | 60.00 | -19.54 | QP | |
| 12 | | 16.0890 | 21.30 | 10.47 | 31.77 | 50.00 | -18.23 | AVG | |

| | | | |
|--------------|-----------------|-------|---------|
| Test Voltage | AC 120V/60Hz | Phase | Neutral |
| Test Mode | Mode 5(Config1) | | |



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1 | | 0.1613 | 36.84 | 9.54 | 46.38 | 65.40 | -19.02 | QP | |
| 2 | | 0.1613 | 26.90 | 9.54 | 36.44 | 55.40 | -18.96 | AVG | |
| 3 | | 0.2017 | 32.15 | 9.54 | 41.69 | 63.54 | -21.85 | QP | |
| 4 | | 0.2017 | 23.40 | 9.54 | 32.94 | 53.54 | -20.60 | AVG | |
| 5 | | 0.3480 | 28.84 | 9.54 | 38.38 | 59.01 | -20.63 | QP | |
| 6 | | 0.3480 | 17.80 | 9.54 | 27.34 | 49.01 | -21.67 | AVG | |
| 7 | | 0.4830 | 29.99 | 9.56 | 39.55 | 56.29 | -16.74 | QP | |
| 8 | * | 0.4830 | 20.30 | 9.56 | 29.86 | 46.29 | -16.43 | AVG | |
| 9 | | 16.3005 | 27.84 | 10.52 | 38.36 | 60.00 | -21.64 | QP | |
| 10 | | 16.3005 | 18.20 | 10.52 | 28.72 | 50.00 | -21.28 | AVG | |
| 11 | | 18.2265 | 28.50 | 10.67 | 39.17 | 60.00 | -20.83 | QP | |
| 12 | | 18.2265 | 17.50 | 10.67 | 28.17 | 50.00 | -21.83 | AVG | |

3.2 RADIATED EMISSIONS 30 MHZ TO 1 GHZ

3.2.1 LIMIT

| Frequency (MHz) | Class B (at 3m) | |
|--------------------|--------------------------|----------------------------|
| | (uV/m) Field strength | (dBuV/m) Field strength |
| 30 - 88 | 100 | 40 |
| 88 - 216 | 150 | 43.5 |
| 216 - 960 | 200 | 46 |
| Above 960 | 500 | 54 |

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m) = 20log Emission level (uV/m).
3m Emission level = 10m Emission level + 20log(10m/3m).
- (3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
Margin Level = Measurement Value - Limit Value

3.2.2 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|--------------------------|----------------|-----------------------|------------|------------------|
| 1 | Receiver | Keysight | N9038A | MY54450004 | Aug. 03, 2020 |
| 2 | MXE EMI Receiver | Agilent | N9038A | MY53220133 | Mar. 10, 2020 |
| 3 | Pre-Amplifier | EMC INSTRUMENT | EMC 9135 | 980284 | Mar. 10, 2020 |
| 4 | Pre-Amplifier | EMC INSTRUMENT | EMC 9135 | 980283 | Mar. 10, 2020 |
| 5 | Trilog-Broadband Antenna | Schwarzbeck | VULB9168 | 946 | Nov. 24, 2019 |
| 6 | Trilog-Broadband Antenna | Schwarzbeck | VULB9168 | 947 | Nov. 24, 2019 |
| 7 | Cable | emci | LMR-400(5m+11m+15m) | N/A | Aug. 06, 2020 |
| 8 | Cable | emci | LMR-400(5m+8m+8m) | N/A | Aug. 06, 2020 |
| 9 | Measurement Software | Farad | EZ-EMC Ver.BTL-2ANT-1 | N/A | N/A |
| 10 | Multi-Device Controller | ETS-Lindgren | 2090 | N/A | N/A |
| 11 | Attenuator | EMCI | EMCI-N-6-06 | N0670 | Nov. 24, 2019 |
| 12 | Attenuator | EMCI | EMCI-N-6-06 | N0671 | Nov. 24, 2019 |

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.

All calibration period of equipment list is one year.

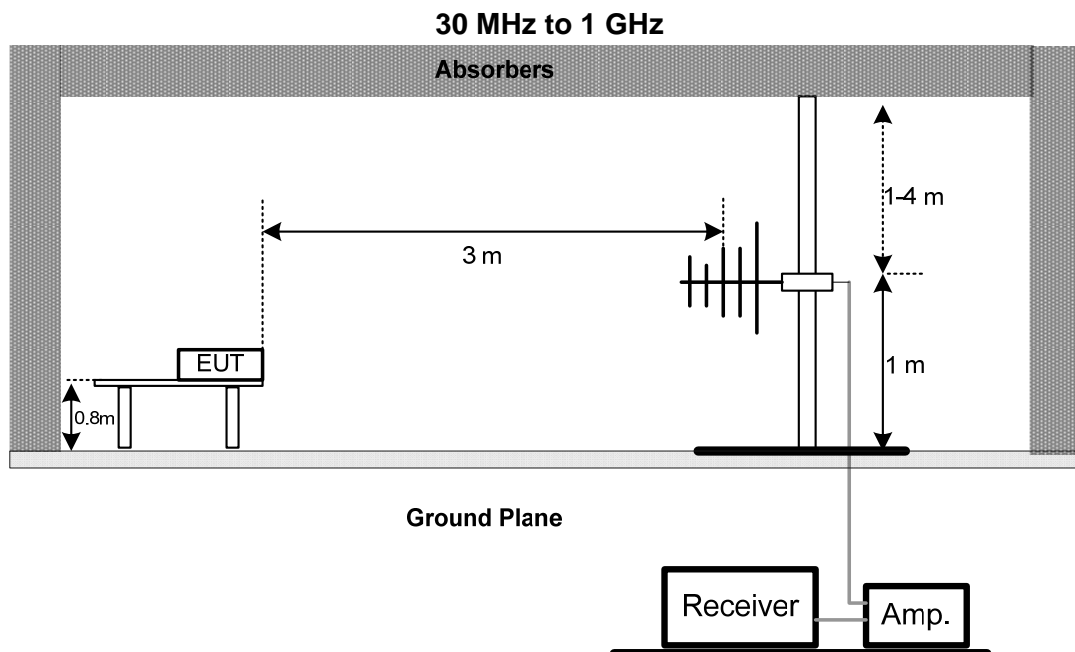
3.2.3 TEST PROCEDURE

- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- For the actual test configuration, please refer to the related Item - Block Diagram of system tested.

3.2.4 DEVIATION FROM TEST STANDARD

No deviation

3.2.5 TEST SETUP

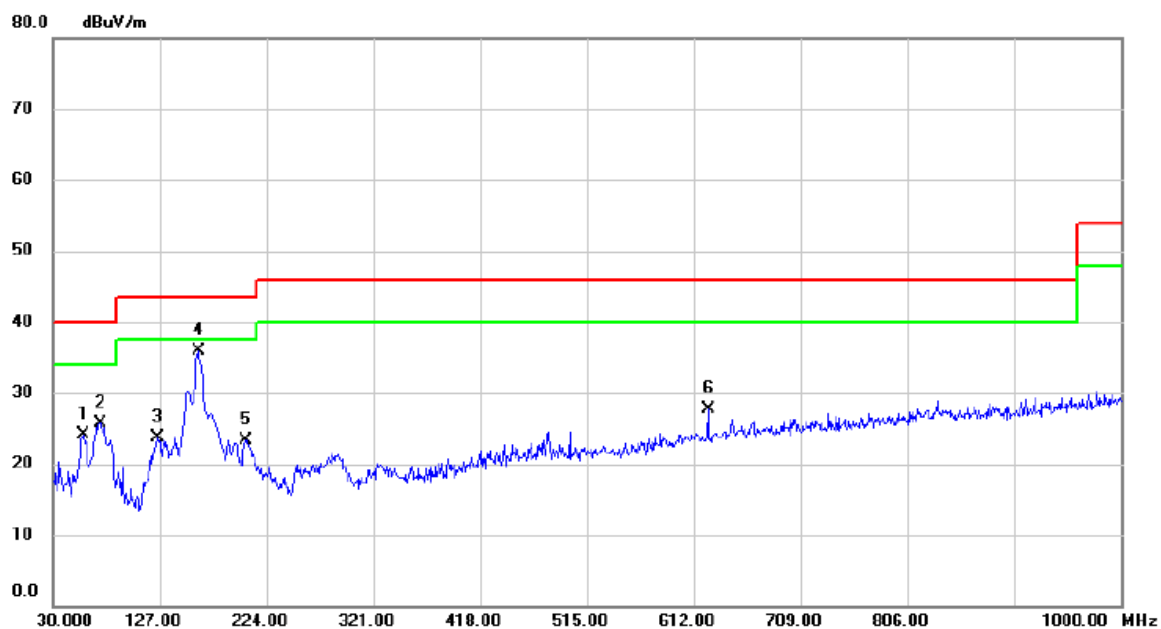


3.2.6 TEST RESULTS

Remark:

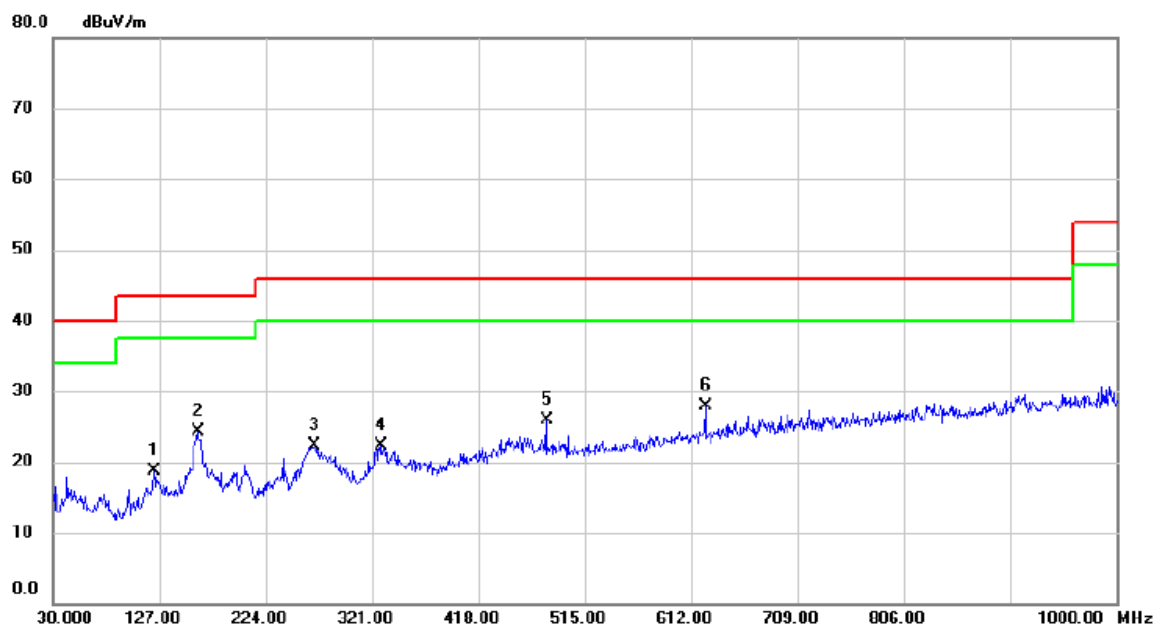
- (1) Measuring frequency range from 30 MHz to 1000 MHz
- (2) If the peak scan value lower limit more than 20 dB, then this signal data does not show in table.

| | | | |
|--------------|-----------------|--------------|----------|
| Test Voltage | AC 120V/60Hz | Polarization | Vertical |
| Test Mode | Mode 5(Config1) | | |



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|--------------|----------|---------|
| 1 | | 57.6450 | 38.62 | -14.55 | 24.07 | 40.00 | -15.93 | QP | |
| 2 | | 73.1650 | 42.53 | -16.81 | 25.72 | 40.00 | -14.28 | QP | |
| 3 | | 125.5450 | 36.75 | -13.04 | 23.71 | 43.50 | -19.79 | QP | |
| 4 | * | 162.4050 | 47.24 | -11.34 | 35.90 | 43.50 | -7.60 | QP | |
| 5 | | 204.6000 | 38.72 | -15.37 | 23.35 | 43.50 | -20.15 | QP | |
| 6 | | 625.0950 | 32.94 | -5.20 | 27.74 | 46.00 | -18.26 | QP | |

| | | | |
|--------------|-----------------|--------------|------------|
| Test Voltage | AC 120V/60Hz | Polarization | Horizontal |
| Test Mode | Mode 5(Config1) | | |



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|--------------|----------|---------|
| 1 | | 122.1500 | 31.81 | -13.04 | 18.77 | 43.50 | -24.73 | QP | |
| 2 | | 162.4050 | 35.72 | -11.34 | 24.38 | 43.50 | -19.12 | QP | |
| 3 | | 268.6200 | 35.37 | -13.02 | 22.35 | 46.00 | -23.65 | QP | |
| 4 | | 329.7300 | 33.28 | -11.00 | 22.28 | 46.00 | -23.72 | QP | |
| 5 | | 480.0800 | 33.68 | -7.84 | 25.84 | 46.00 | -20.16 | QP | |
| 6 | * | 625.0950 | 33.11 | -5.20 | 27.91 | 46.00 | -18.09 | QP | |

3.3 RADIATED EMISSIONS ABOVE 1 GHZ

3.3.1 LIMIT

| Frequency (MHz) | Class B | |
|--------------------|------------------|---------|
| | (dBuV/m) (at 3m) | |
| | Peak | Average |
| Above 1000 | 74 | 54 |

FREQUENCY RANGE OF RADIATED MEASUREMENT (FOR UNINTENTIONAL RADIATORS)

| Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz) | Range (MHz) |
|---|---|
| Below 1.705 | 30 |
| 1.705 - 108 | 1000 |
| 108 - 500 | 2000 |
| 500 - 1000 | 5000 |
| Above 1000 | 5 th harmonic of the highest frequency or 40 GHz, whichever is lower |

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m) = 20log Emission level (uV/m).
3m Emission level = 10m Emission level + 20log(10m/3m).
- (3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
Margin Level = Measurement Value - Limit Value

3.3.2 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------------------------|----------------|----------------------------------|---------------|------------------|
| 1 | Horn Antenna | EMCO | 3115 | 9605-4803 | Mar. 23, 2020 |
| 2 | Broad-Band Horn Antenna | Schwarzbeck | BBHA 9170 | 9170319 | Jun. 23, 2020 |
| 3 | Amplifier | Agilent | 8449B | 3008A02584 | Aug. 03, 2020 |
| 4 | Microwave Preamplifier With Adaptor | EMC INSTRUMENT | EMC2654045 | 980039 & HA01 | Mar. 10, 2020 |
| 5 | MXE EMI Receiver | Agilent | N9038A | MY53220133 | Mar. 10, 2020 |
| 6 | Measurement Software | Farad | EZ-EMC Ver.BTL-2ANT-1 | N/A | N/A |
| 7 | Multi-Device Controller | ETS-Lindgren | 2090 | N/A | N/A |
| 8 | Controller | MF | MF-7802 | MF780208159 | N/A |
| 9 | Cable | emci | SUCOFLEX 102_8m(0.01GHz – 40GHz) | N/A | Mar. 26, 2020 |
| 10 | Cable | Mlcable Inc. | B10-01-01-5M | 18047123 | Mar. 01, 2020 |
| 11 | Cable | Mlcable Inc. | B10-01-01-10M | 18072746 | Mar. 01, 2020 |
| 12 | Cable | N/A | A50-3.5M3.5M-1.5M-AT | 18041824 | Mar. 01, 2020 |

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.

All calibration period of equipment list is one year.

3.3.3 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

Note:

For measurement of frequency 1GHz -18GHz, the EUT was set 3 meters away from the receiver antenna. For 18G – 40GHz, the EUT was set 1 meter.

Emission level (dBuV/m)=20log Emission level (uV/m).

The limits above 18GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade from 3m to 1m

Distance extrapolation factor = $20 \log (3\text{m}/1\text{m})$ dB ;

Limit line = specific limits (dBuV) + 9.5 dB.

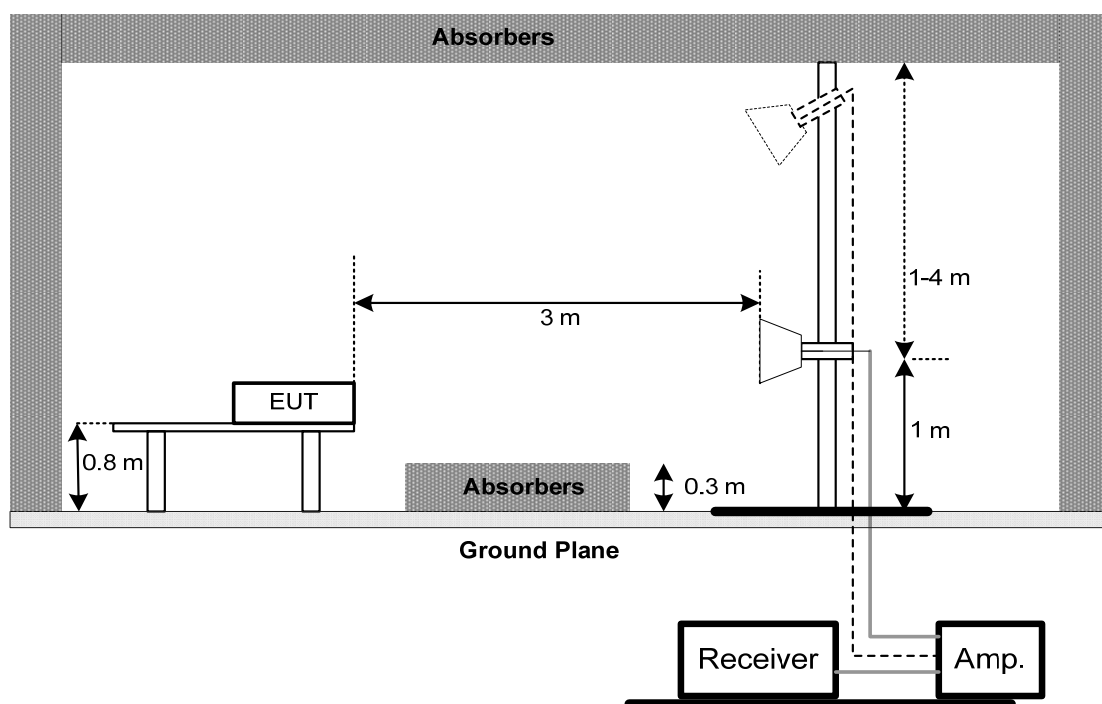
- b. The height of the equipment or of the substitution antenna shall be 0.8 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- c. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- d. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform.
- g. For the actual test configuration, please refer to the related Item - Block Diagram of system tested.

3.3.4 DEVIATION FROM TEST STANDARD

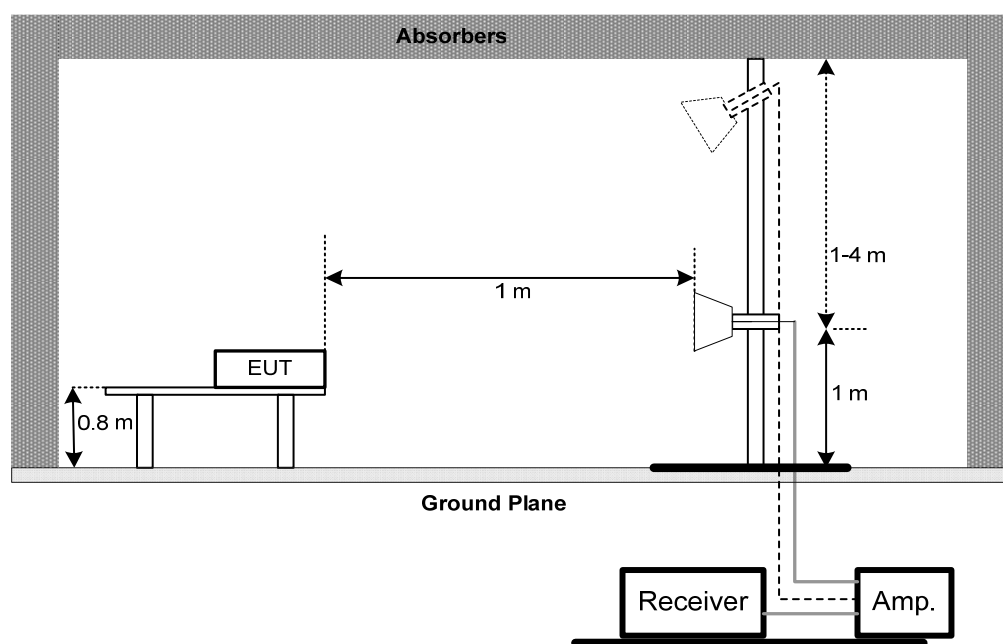
No deviation

3.3.5 TEST SETUP

1 GHz-18 GHz



18 GHz-40 GHz

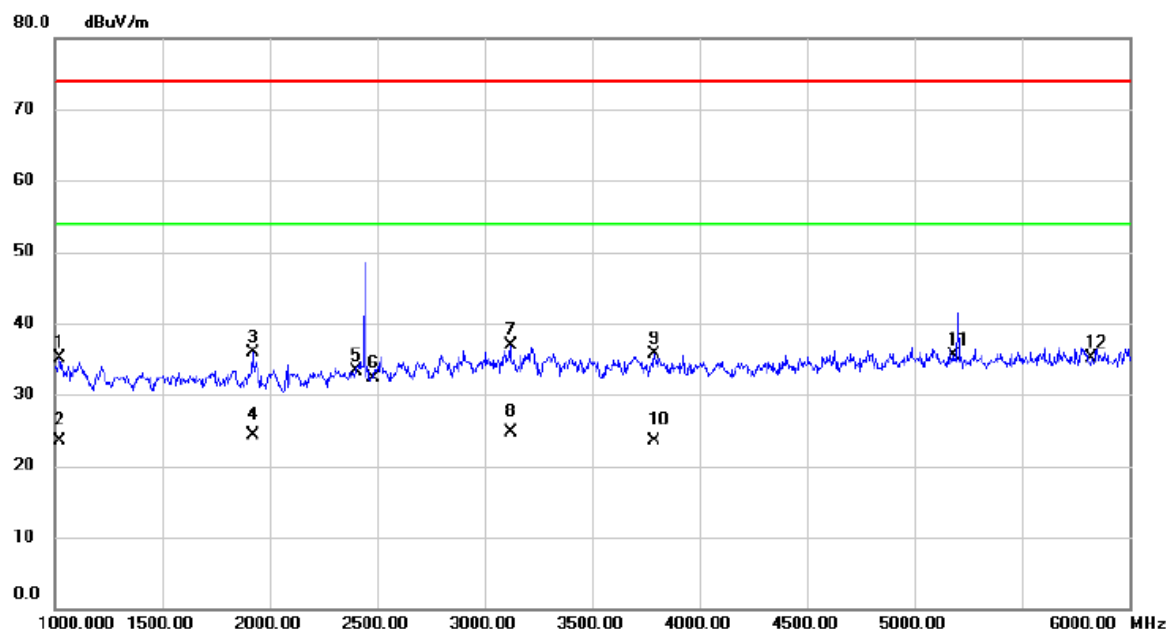


3.3.6 TEST RESULTS

Remark:

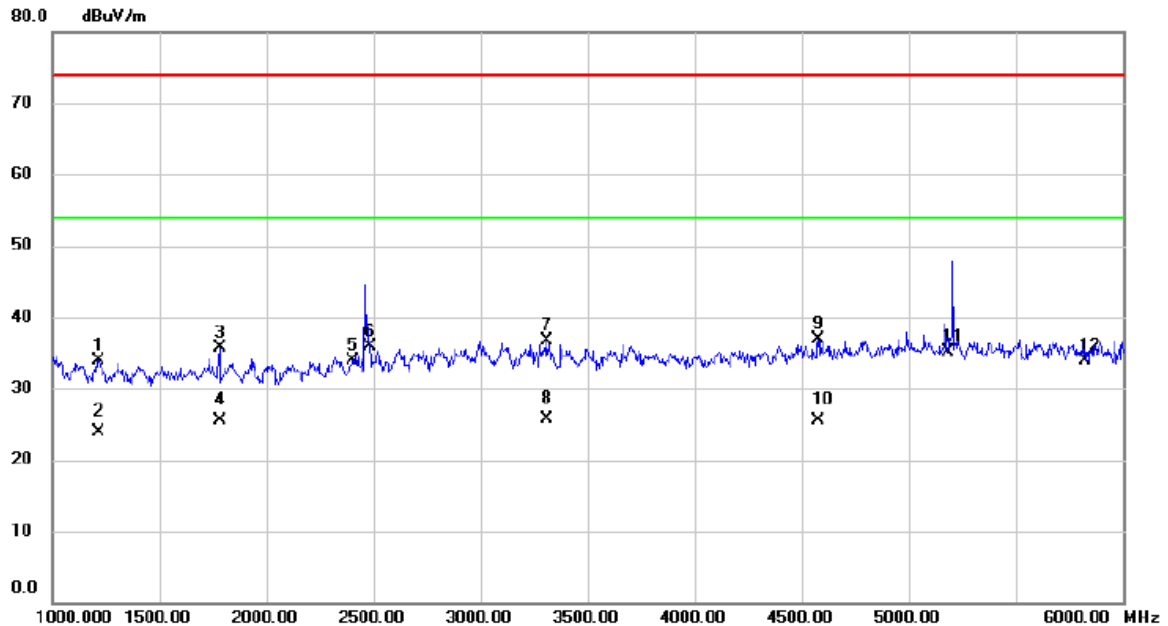
- (1) Radiated emissions measured in frequency range above 1000 MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (2) Data of measurement within this frequency range shown “*” in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
- (3) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

| | | | |
|--------------|-----------------|--------------|----------|
| Test Voltage | AC 120V/60Hz | Polarization | Vertical |
| Test Mode | Mode 5(Config1) | | |



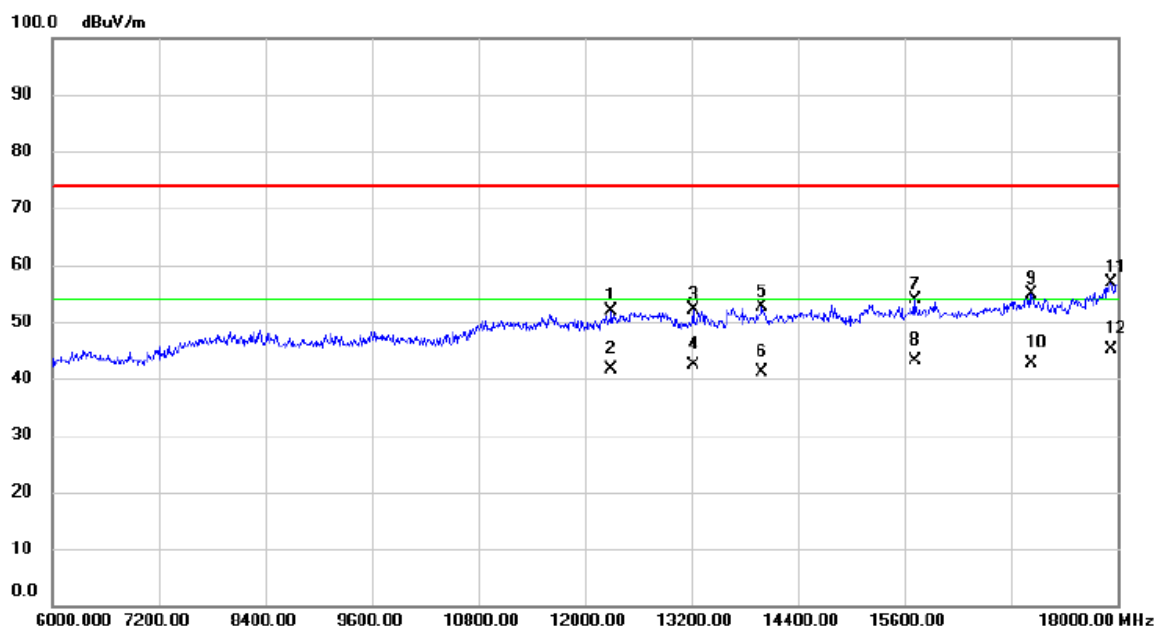
| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|--------------|----------|---------|
| 1 | | 1020.000 | 41.61 | -6.55 | 35.06 | 74.00 | -38.94 | peak | |
| 2 | | 1020.000 | 30.03 | -6.55 | 23.48 | 54.00 | -30.52 | AVG | |
| 3 | | 1920.000 | 39.97 | -4.00 | 35.97 | 74.00 | -38.03 | peak | |
| 4 | | 1920.000 | 28.25 | -4.00 | 24.25 | 54.00 | -29.75 | AVG | |
| 5 | | 2402.000 | 35.74 | -2.40 | 33.34 | 74.00 | -40.66 | peak | |
| 6 | | 2480.000 | 34.50 | -2.13 | 32.37 | 74.00 | -41.63 | peak | |
| 7 | | 3120.000 | 36.62 | 0.20 | 36.82 | 74.00 | -37.18 | peak | |
| 8 | * | 3120.000 | 24.52 | 0.20 | 24.72 | 54.00 | -29.28 | AVG | |
| 9 | | 3792.500 | 34.71 | 0.94 | 35.65 | 74.00 | -38.35 | peak | |
| 10 | | 3792.500 | 22.63 | 0.94 | 23.57 | 54.00 | -30.43 | AVG | |
| 11 | | 5180.000 | 30.42 | 5.04 | 35.46 | 74.00 | -38.54 | peak | |
| 12 | | 5825.000 | 29.20 | 5.85 | 35.05 | 74.00 | -38.95 | peak | |

| | | | |
|--------------|-----------------|--------------|------------|
| Test Voltage | AC 120V/60Hz | Polarization | Horizontal |
| Test Mode | Mode 5(Config1) | | |



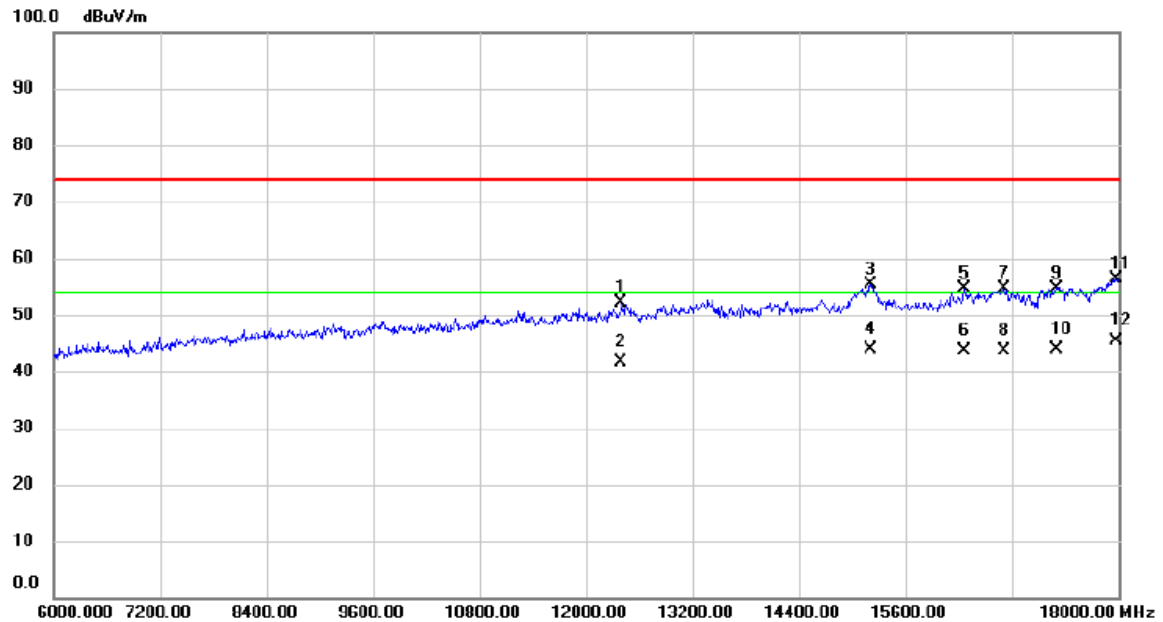
| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|--------------|----------|---------|
| 1 | | 1215.000 | 40.04 | -6.11 | 33.93 | 74.00 | -40.07 | peak | |
| 2 | | 1215.000 | 30.01 | -6.11 | 23.90 | 54.00 | -30.10 | AVG | |
| 3 | | 1780.000 | 40.27 | -4.49 | 35.78 | 74.00 | -38.22 | peak | |
| 4 | | 1780.000 | 30.05 | -4.49 | 25.56 | 54.00 | -28.44 | AVG | |
| 5 | | 2402.000 | 36.22 | -2.40 | 33.82 | 74.00 | -40.18 | peak | |
| 6 | | 2480.000 | 38.01 | -2.13 | 35.88 | 74.00 | -38.12 | peak | |
| 7 | | 3307.500 | 36.30 | 0.44 | 36.74 | 74.00 | -37.26 | peak | |
| 8 | * | 3307.500 | 25.25 | 0.44 | 25.69 | 54.00 | -28.31 | AVG | |
| 9 | | 4575.000 | 33.51 | 3.33 | 36.84 | 74.00 | -37.16 | peak | |
| 10 | | 4575.000 | 22.23 | 3.33 | 25.56 | 54.00 | -28.44 | AVG | |
| 11 | | 5180.000 | 30.08 | 5.04 | 35.12 | 74.00 | -38.88 | peak | |
| 12 | | 5825.000 | 27.98 | 5.85 | 33.83 | 74.00 | -40.17 | peak | |

| | | | |
|--------------|-----------------|--------------|----------|
| Test Voltage | AC 120V/60Hz | Polarization | Vertical |
| Test Mode | Mode 5(Config1) | | |



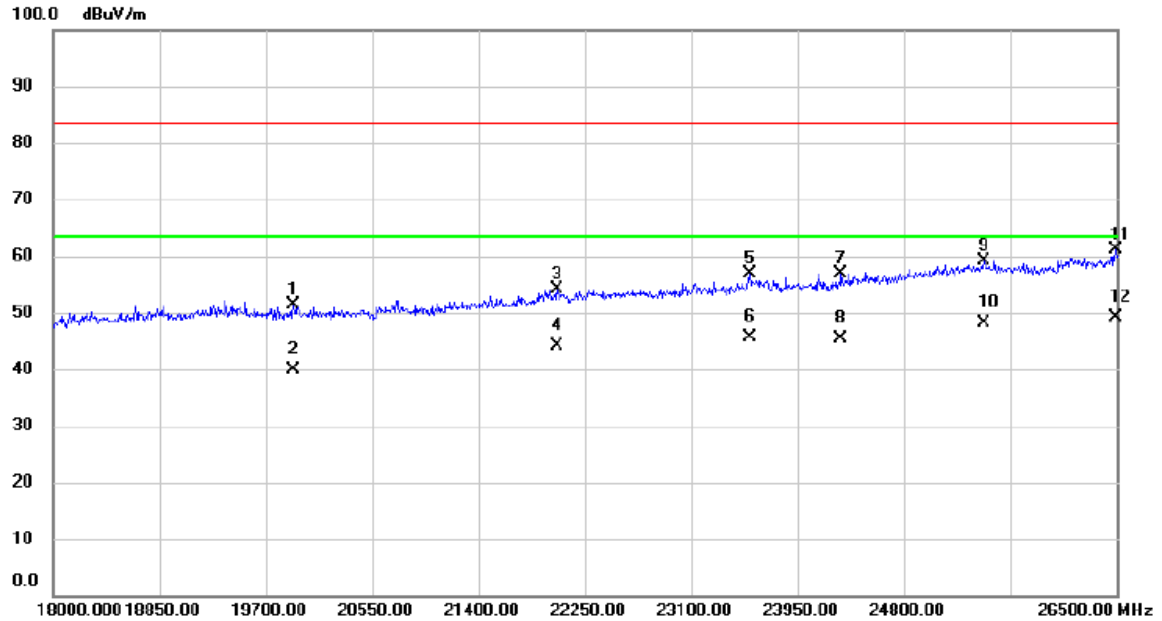
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Margin | | |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | Comment |
| 1 | | 12300.00 | 30.47 | 21.40 | 51.87 | 74.00 | -22.13 | peak | |
| 2 | | 12300.00 | 20.20 | 21.40 | 41.60 | 54.00 | -12.40 | AVG | |
| 3 | | 13218.00 | 28.02 | 24.03 | 52.05 | 74.00 | -21.95 | peak | |
| 4 | | 13218.00 | 18.33 | 24.03 | 42.36 | 54.00 | -11.64 | AVG | |
| 5 | | 13992.00 | 23.81 | 28.70 | 52.51 | 74.00 | -21.49 | peak | |
| 6 | | 13992.00 | 12.33 | 28.70 | 41.03 | 54.00 | -12.97 | AVG | |
| 7 | | 15714.00 | 30.96 | 22.80 | 53.76 | 74.00 | -20.24 | peak | |
| 8 | | 15714.00 | 20.26 | 22.80 | 43.06 | 54.00 | -10.94 | AVG | |
| 9 | | 17034.00 | 27.61 | 27.28 | 54.89 | 74.00 | -19.11 | peak | |
| 10 | | 17034.00 | 15.33 | 27.28 | 42.61 | 54.00 | -11.39 | AVG | |
| 11 | | 17928.00 | 24.12 | 32.82 | 56.94 | 74.00 | -17.06 | peak | |
| 12 | * | 17928.00 | 12.32 | 32.82 | 45.14 | 54.00 | -8.86 | AVG | |

| | | | |
|--------------|-----------------|--------------|------------|
| Test Voltage | AC 120V/60Hz | Polarization | Horizontal |
| Test Mode | Mode 5(Config1) | | |



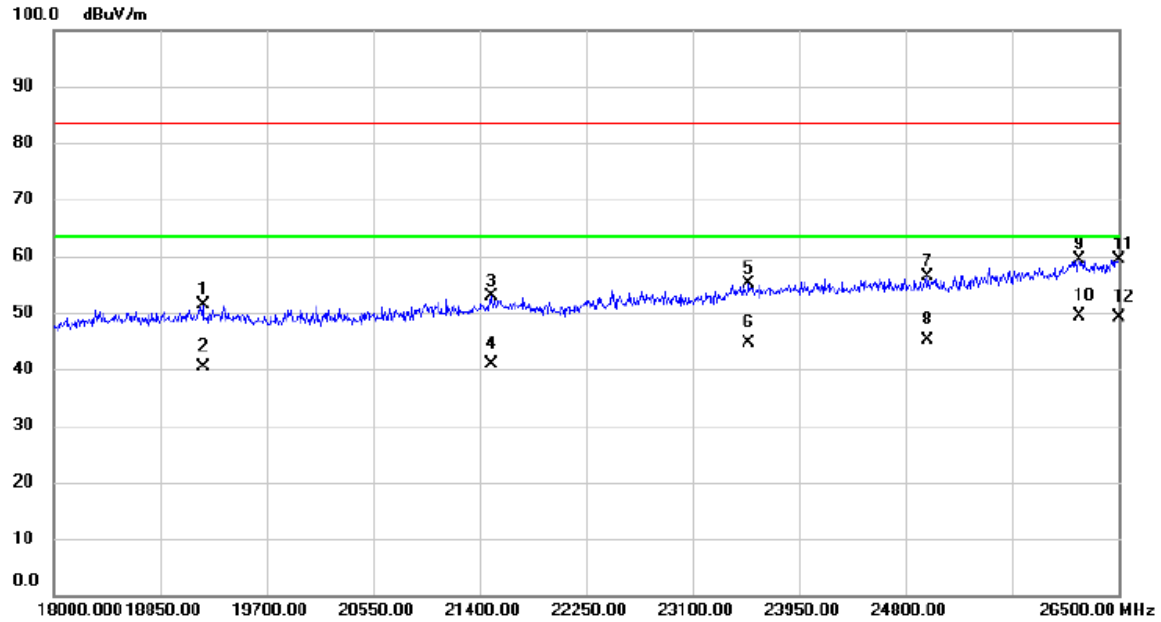
| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|--------------|----------|---------|
| 1 | | 12396.00 | 30.58 | 21.50 | 52.08 | 74.00 | -21.92 | peak | |
| 2 | | 12396.00 | 20.24 | 21.50 | 41.74 | 54.00 | -12.26 | AVG | |
| 3 | | 15210.00 | 30.71 | 24.70 | 55.41 | 74.00 | -18.59 | peak | |
| 4 | | 15210.00 | 19.22 | 24.70 | 43.92 | 54.00 | -10.08 | AVG | |
| 5 | | 16266.00 | 31.38 | 23.34 | 54.72 | 74.00 | -19.28 | peak | |
| 6 | | 16266.00 | 20.26 | 23.34 | 43.60 | 54.00 | -10.40 | AVG | |
| 7 | | 16710.00 | 29.26 | 25.27 | 54.53 | 74.00 | -19.47 | peak | |
| 8 | | 16710.00 | 18.33 | 25.27 | 43.60 | 54.00 | -10.40 | AVG | |
| 9 | | 17298.00 | 26.23 | 28.48 | 54.71 | 74.00 | -19.29 | peak | |
| 10 | | 17298.00 | 15.33 | 28.48 | 43.81 | 54.00 | -10.19 | AVG | |
| 11 | | 17970.00 | 23.32 | 33.15 | 56.47 | 74.00 | -17.53 | peak | |
| 12 | * | 17970.00 | 12.32 | 33.15 | 45.47 | 54.00 | -8.53 | AVG | |

| | | | |
|--------------|-----------------|--------------|----------|
| Test Voltage | AC 120V/60Hz | Polarization | Vertical |
| Test Mode | Mode 5(Config1) | | |



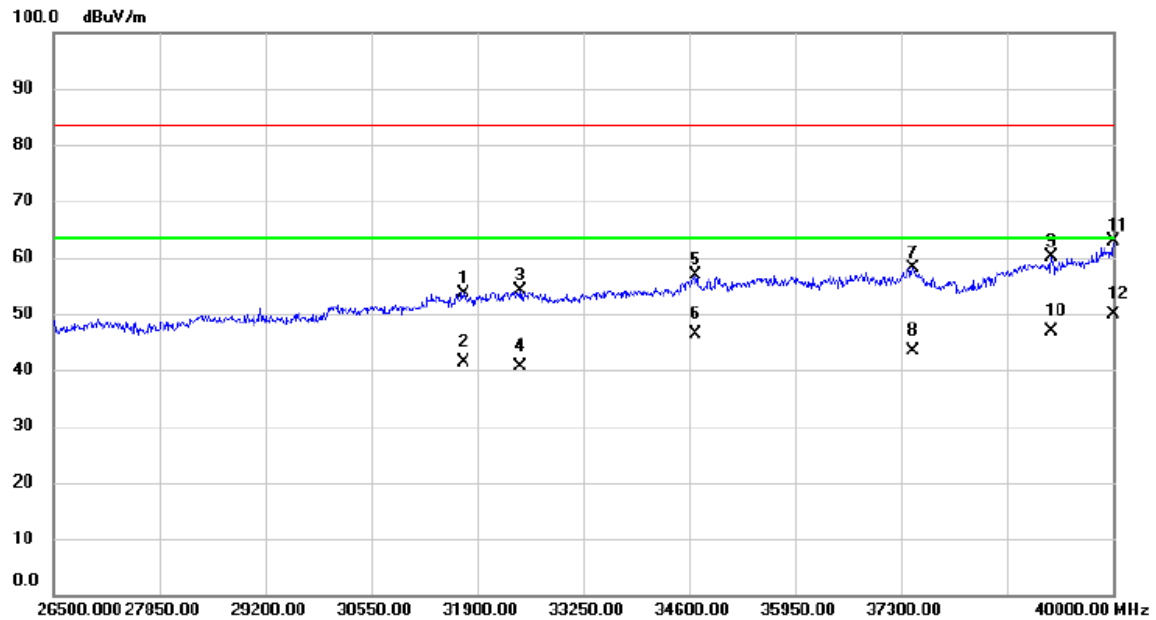
| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|--------------|----------|---------|
| 1 | | 19921.00 | 31.61 | 19.66 | 51.27 | 83.50 | -32.23 | peak | |
| 2 | | 19921.00 | 20.26 | 19.66 | 39.92 | 63.50 | -23.58 | AVG | |
| 3 | | 22029.00 | 32.48 | 21.68 | 54.16 | 83.50 | -29.34 | peak | |
| 4 | | 22029.00 | 22.33 | 21.68 | 44.01 | 63.50 | -19.49 | AVG | |
| 5 | | 23567.50 | 32.50 | 24.26 | 56.76 | 83.50 | -26.74 | peak | |
| 6 | | 23567.50 | 21.33 | 24.26 | 45.59 | 63.50 | -17.91 | AVG | |
| 7 | | 24298.50 | 31.88 | 25.06 | 56.94 | 83.50 | -26.56 | peak | |
| 8 | | 24298.50 | 20.26 | 25.06 | 45.32 | 63.50 | -18.18 | AVG | |
| 9 | | 25437.50 | 32.36 | 26.74 | 59.10 | 83.50 | -24.40 | peak | |
| 10 | | 25437.50 | 21.33 | 26.74 | 48.07 | 63.50 | -15.43 | AVG | |
| 11 | | 26491.50 | 33.20 | 27.84 | 61.04 | 83.50 | -22.46 | peak | |
| 12 | * | 26491.50 | 21.30 | 27.84 | 49.14 | 63.50 | -14.36 | AVG | |

| | | | |
|--------------|-----------------|--------------|------------|
| Test Voltage | AC 120V/60Hz | Polarization | Horizontal |
| Test Mode | Mode 5(Config1) | | |



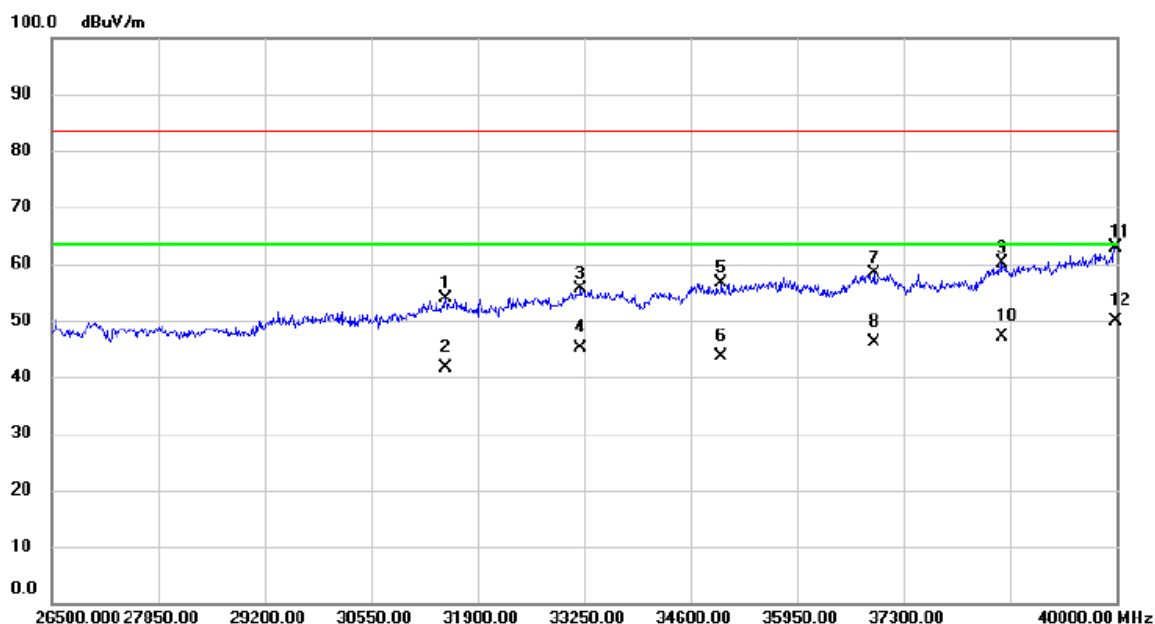
| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|--------------|----------|---------|
| 1 | | 19190.00 | 31.38 | 20.07 | 51.45 | 83.50 | -32.05 | peak | |
| 2 | | 19190.00 | 20.26 | 20.07 | 40.33 | 63.50 | -23.17 | AVG | |
| 3 | | 21493.50 | 31.57 | 21.40 | 52.97 | 83.50 | -30.53 | peak | |
| 4 | | 21493.50 | 19.36 | 21.40 | 40.76 | 63.50 | -22.74 | AVG | |
| 5 | | 23550.50 | 30.77 | 24.25 | 55.02 | 83.50 | -28.48 | peak | |
| 6 | | 23550.50 | 20.26 | 24.25 | 44.51 | 63.50 | -18.99 | AVG | |
| 7 | | 24978.50 | 30.43 | 25.92 | 56.35 | 83.50 | -27.15 | peak | |
| 8 | | 24978.50 | 19.32 | 25.92 | 45.24 | 63.50 | -18.26 | AVG | |
| 9 | | 26185.50 | 32.17 | 27.11 | 59.28 | 83.50 | -24.22 | peak | |
| 10 | * | 26185.50 | 22.33 | 27.11 | 49.44 | 63.50 | -14.06 | AVG | |
| 11 | | 26500.00 | 31.58 | 27.85 | 59.43 | 83.50 | -24.07 | peak | |
| 12 | | 26500.00 | 21.32 | 27.85 | 49.17 | 63.50 | -14.33 | AVG | |

| | | | |
|--------------|-----------------|--------------|----------|
| Test Voltage | AC 120V/60Hz | Polarization | Vertical |
| Test Mode | Mode 5(Config1) | | |



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|--------------|----------|---------|
| 1 | | 31724.50 | 44.63 | 9.04 | 53.67 | 83.50 | -29.83 | peak | |
| 2 | | 31724.50 | 32.33 | 9.04 | 41.37 | 63.50 | -22.13 | AVG | |
| 3 | | 32453.50 | 44.81 | 9.20 | 54.01 | 83.50 | -29.49 | peak | |
| 4 | | 32453.50 | 31.33 | 9.20 | 40.53 | 63.50 | -22.97 | AVG | |
| 5 | | 34681.00 | 45.76 | 11.11 | 56.87 | 83.50 | -26.63 | peak | |
| 6 | | 34681.00 | 35.33 | 11.11 | 46.44 | 63.50 | -17.06 | AVG | |
| 7 | | 37448.50 | 47.23 | 10.95 | 58.18 | 83.50 | -25.32 | peak | |
| 8 | | 37448.50 | 32.33 | 10.95 | 43.28 | 63.50 | -20.22 | AVG | |
| 9 | | 39217.00 | 44.58 | 15.51 | 60.09 | 83.50 | -23.41 | peak | |
| 10 | | 39217.00 | 31.36 | 15.51 | 46.87 | 63.50 | -16.63 | AVG | |
| 11 | | 40000.00 | 45.28 | 17.60 | 62.88 | 83.50 | -20.62 | peak | |
| 12 | * | 40000.00 | 32.36 | 17.60 | 49.96 | 63.50 | -13.54 | AVG | |

| | | | |
|--------------|-----------------|--------------|------------|
| Test Voltage | AC 120V/60Hz | Polarization | Horizontal |
| Test Mode | Mode 5(Config1) | | |



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|--------------|----------|---------|
| 1 | | 31495.00 | 44.66 | 9.28 | 53.94 | 83.50 | -29.56 | peak | |
| 2 | | 31495.00 | 32.33 | 9.28 | 41.61 | 63.50 | -21.89 | AVG | |
| 3 | | 33209.50 | 45.86 | 9.71 | 55.57 | 83.50 | -27.93 | peak | |
| 4 | | 33209.50 | 35.33 | 9.71 | 45.04 | 63.50 | -18.46 | AVG | |
| 5 | | 34991.50 | 45.41 | 11.32 | 56.73 | 83.50 | -26.77 | peak | |
| 6 | | 34991.50 | 32.33 | 11.32 | 43.65 | 63.50 | -19.85 | AVG | |
| 7 | | 36922.00 | 47.54 | 10.86 | 58.40 | 83.50 | -25.10 | peak | |
| 8 | | 36922.00 | 35.33 | 10.86 | 46.19 | 63.50 | -17.31 | AVG | |
| 9 | | 38555.50 | 46.30 | 13.76 | 60.06 | 83.50 | -23.44 | peak | |
| 10 | | 38555.50 | 33.26 | 13.76 | 47.02 | 63.50 | -16.48 | AVG | |
| 11 | | 39986.50 | 45.41 | 17.56 | 62.97 | 83.50 | -20.53 | peak | |
| 12 | * | 39986.50 | 32.31 | 17.56 | 49.87 | 63.50 | -13.63 | AVG | |