

FCC Test Report

Report No.: RF180731C26

FCC ID: K7SF8J234

Test Model: F8J234

Received Date: Jul. 31, 2018

Test Date: Aug. 06 ~ Aug. 07, 2018

Issued Date: Aug. 21, 2018

Applicant: Belkin International, Inc.

Address: 12045 East Waterfront Drive, Playa Vista, CA 90094

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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**FCC Registration /
Designation Number:** 788550 / TW0003



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Release Control Record

| Issue No. | Description | Date Issued |
|-------------|------------------|---------------|
| RF180731C26 | Original release | Aug. 21, 2018 |

1 Certificate of Conformity

Product: BOOST↑UP™ Wireless Charging Dock for iPhone and Apple Watch

Brand: belkin

Model No.: F8J234

Sample Status: Engineering sample

Applicant: Belkin International, Inc.

Test Date: Aug. 06 ~ Aug. 07, 2018

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.209)
ANSI C63.10: 2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Pettie Chen, **Date:** Aug. 21, 2018
Pettie Chen / Senior Specialist

Approved by : Bruce Chen, **Date:** Aug. 21, 2018
Bruce Chen / Project Engineer

2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart C (Section 15.209) | | | |
|--|-----------------------------|--------|--|
| FCC Clause | Test Item | Result | Remarks |
| 15.207 | AC Power Conducted Emission | Pass | Meet the requirement of limit. Minimum passing margin is -15.00dB at 0.35407MHz. |
| 15.209 | Radiated Emission Test | Pass | Meet the requirement of limit. Minimum passing margin is -6.6dB at 68.790MHz. |

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement | Frequency | Expanded Uncertainty (k=2) (\pm) |
|------------------------------------|------------------|--------------------------------------|
| Conducted Emissions at mains ports | 150kHz ~ 30MHz | 2.94 dB |
| Radiated Emissions up to 1 GHz | 30MHz ~ 200MHz | 3.86 dB |
| | 200MHz ~ 1000MHz | 3.87 dB |

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

| | |
|--|---|
| Product | BOOST↑UP™ Wireless Charging Dock for iPhone and Apple Watch |
| Test Model | F8J234 |
| Sample Status | Engineering sample |
| Power Supply Rating | 15Vdc (adapter) |
| Modulation Type | FSK |
| Operating Frequency | 127.8 kHz 326.5 kHz |
| Antenna Type | Coil antenna |
| Field Strength | 127.8 kHz: 69.2dBuV/m 326.5 kHz: 53.8dBuV/m |
| Dimension for iPhone charging coil | 16.26cm ² (diameter = 45.5mm) |
| Dimension for Apple watch charging coil | 7.95cm ² (diameter = 31.82mm) |
| Accessory Device | Adapter |
| Data Cable Supplied | NA |
| Maximum Power Output for Phone charging coil | 7.5W |
| Maximum Power Output for Apple watch charging coil | 5W |

Note:

1. The EUT uses following adapter.

| | |
|--------------|---|
| Brand | belkin |
| Model | 2ADL045H NJ |
| Input Power | 100-240Vac, 50/60Hz, 1.3A |
| Output Power | 15Vdc, 3.0A |
| Power Line | 1.8m non-shielded DC cable without core attached on adapter |

2. The EUT has WPC (Wireless Power Consortium) technology.

3. 326.5kHz mode is for Apple watch charging. Plastic band is the worst case for final tests after pretesting plastic band and metal band.

3.2 Description of Test Modes

2 channels are provided to this EUT

| Channel | Freq. (kHz) |
|---------|-------------|
| 1 | 127.8 |
| 2 | 326.5 |

3.2.1 Test Mode Applicability and Tested Channel Detail

| EUT CONFIGURE MODE | APPLICABLE TO | | DESCRIPTION |
|--------------------|---------------|-----|-------------------|
| | RE<1G | PLC | |
| A | √ | √ | 127.8kHz only |
| B | √ | √ | 326.5kHz only |
| C | √ | √ | 127.8kHz+326.5kHz |

Where **RE<1G**: Radiated Emission below 1GHz **PLC**: Power Line Conducted Emission

Note:

1. The EUT is designed to be positioned on the X-plane only.
2. “.” means no effect.

Radiated Emission Test (Below 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure Mode | Available Channel | Tested Channel |
|--------------------|-------------------|----------------|
| A | 1, 2 | 1 |
| B | 1, 2 | 2 |
| C | 1, 2 | 1, 2 |

Power Line Conducted Emission Test:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure Mode | Available Channel | Tested Channel |
|--------------------|-------------------|----------------|
| A | 1, 2 | 1 |
| B | 1, 2 | 2 |
| C | 1, 2 | 1, 2 |

Test Condition:

| Applicable To | Environmental Conditions | Input Power | Tested by |
|-----------------|--------------------------|--------------|------------|
| RE<1G | 22 deg. C, 66% RH | 120Vac, 60Hz | Adair Peng |
| PLC | 22 deg. C, 66% RH | 120Vac, 60Hz | Adair Peng |

3.3 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.

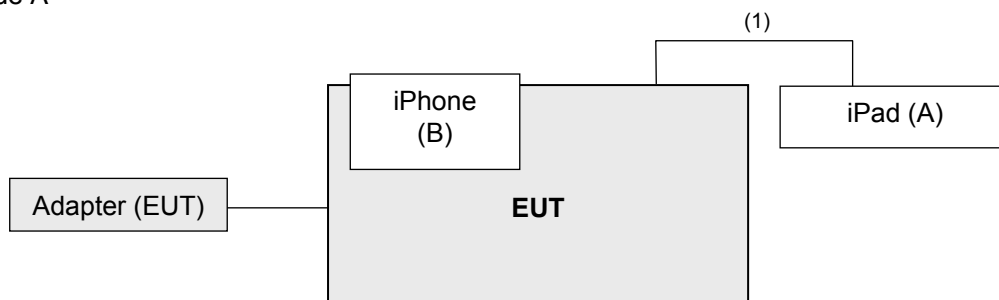
| ID | Product | Brand | Model No. | Serial No. | FCC ID | Remarks |
|----|-------------|-------|-----------|--------------|--------|---------|
| A. | iPad | Apple | A1430 | DYTHR47KDVGL | NA | - |
| B. | iPhone X | Apple | A1901 | NA | NA | - |
| C. | Apple Watch | Apple | A1553 | NA | NA | - |

| ID | Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks |
|----|--------------|------|------------|--------------------|--------------|---------|
| 1. | USB cable | 1 | 1.5 | Y | 0 | - |

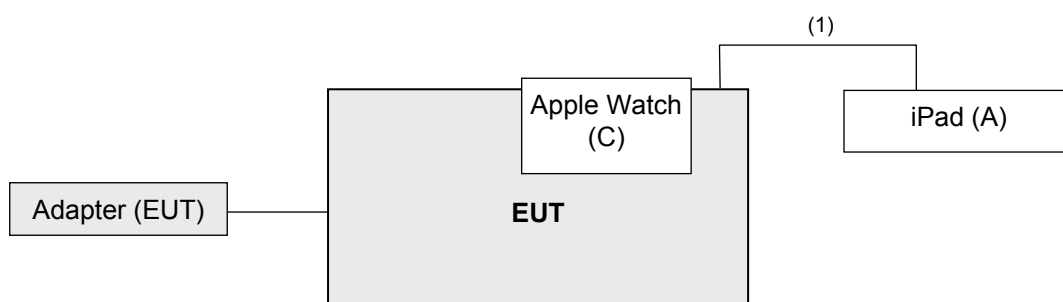
3.3.1 Configuration of System under Test

Charging Mode:

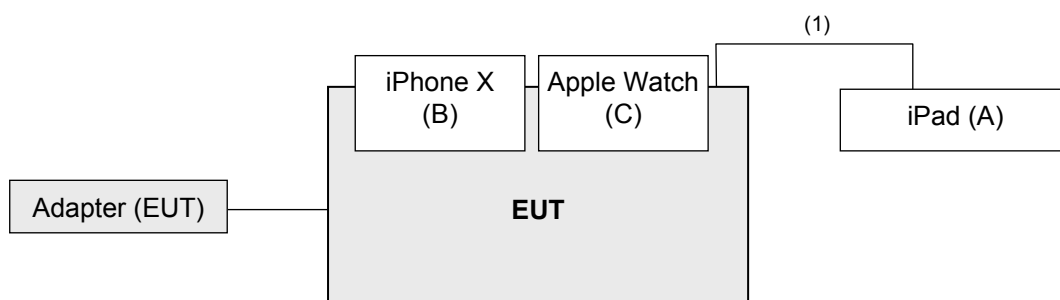
Test Mode A



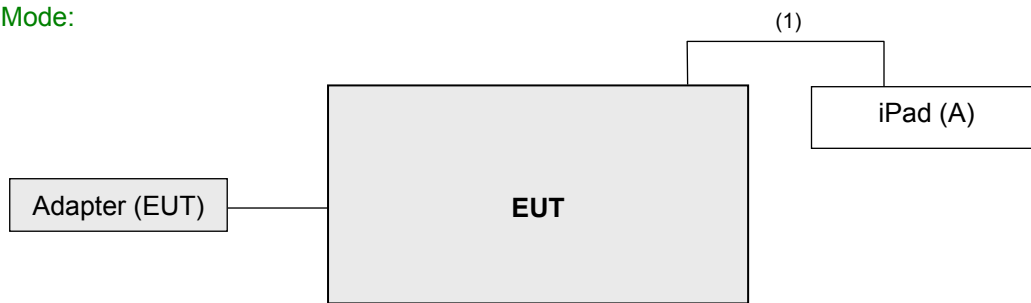
Test Mode B



Test Mode C



Standby Mode:



3.4 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (15.209)

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

FOR FREQUENCY BELOW 30MHz

| Frequency (MHz) | Field Strength (dBuV/m) | | Measurement Distance (meters) |
|-----------------|-------------------------|-------------|-------------------------------|
| | uV/m | dBuV/m | |
| 0.009 – 0.490 | 2400 / F (kHz) | 48.52-13.80 | 300 |
| 0.490 – 1.705 | 24000 / F (kHz) | 33.80-22.97 | 30 |
| 1.705 – 30.0 | 30 | 29.54 | 30 |

FOR FREQUENCY BETWEEN 30-1000MHz

| Frequency (MHz) | Class A (at 10m) | | Class B (at 3m) | |
|-----------------|------------------|--------|-----------------|--------|
| | uV/m | dBuV/m | uV/m | dBuV/m |
| 30-88 | 90 | 39.1 | 100 | 40.0 |
| 88-216 | 150 | 43.5 | 150 | 43.5 |
| 216-960 | 210 | 46.4 | 200 | 46.0 |
| Above 960 | 300 | 49.5 | 500 | 54.0 |

4.1.2 Test Instruments

| Description & Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Due |
|--|---------------------------------------|---------------------------------|---------------|---------------|
| Test Receiver ROHDE & SCHWARZ | ESCI | 100424 | Oct. 17, 2017 | Oct. 16, 2018 |
| Spectrum Analyzer ROHDE & SCHWARZ | FSP40 | 100041 | Dec. 12, 2017 | Dec. 11, 2018 |
| BILOG Antenna SCHWARZBECK | VULB9168 | 9168-171 | Dec. 11, 2017 | Dec. 10, 2018 |
| HORN Antenna SCHWARZBECK | 9120D | 209 | Dec. 13, 2017 | Dec. 12, 2018 |
| HORN Antenna SCHWARZBECK | BBHA 9170 | BBHA9170241 | Dec. 01, 2017 | Nov. 30, 2018 |
| Loop Antenna EMCI | EM-6879 | 269 | Aug. 11, 2017 | Aug. 10, 2018 |
| Preamplifier Agilent (Below 1GHz) | 8447D | 2944A10738 | Aug. 21, 2017 | Aug. 20, 2018 |
| Preamplifier Agilent (Above 1GHz) | 8449B | 3008A02465 | Apr. 03, 2018 | Apr. 02, 2019 |
| RF signal cable HUBER+SUHNER | SUCOFLEX 104 | Cable-CH3-03 (223653/4) | Aug. 21, 2017 | Aug. 20, 2018 |
| RF signal cable HUBER+SUHNER& EMCI | SUCOFLEX 104&EMC104-SM-SM-8 000 | Cable-CH3-03 (309224+170907) | Sep.11, 2017 | Sep. 10, 2018 |
| Software BV ADT | ADT_Radiated_ V7.6.15.9.5 | NA | NA | NA |
| Antenna Tower inn-co GmbH | MA 4000 | 013303 | NA | NA |
| Antenna Tower Controller BV ADT | AT100 | AT93021702 | NA | NA |
| Turn Table BV ADT | TT100 | TT93021702 | NA | NA |
| Turn Table Controller BV ADT | SC100 | SC93021702 | NA | NA |
| Boresight Antenna Fixture | FBA-01 | FBA-SIP01 | NA | NA |

- Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 3.
3. The horn antenna and preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Designation Number is TW0003. The number will be varied with the Lab location and scope as attached.
5. The IC Site Registration No. is IC 7450F-3.

4.1.3 Test Procedures

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna 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.
- d. 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.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-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. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

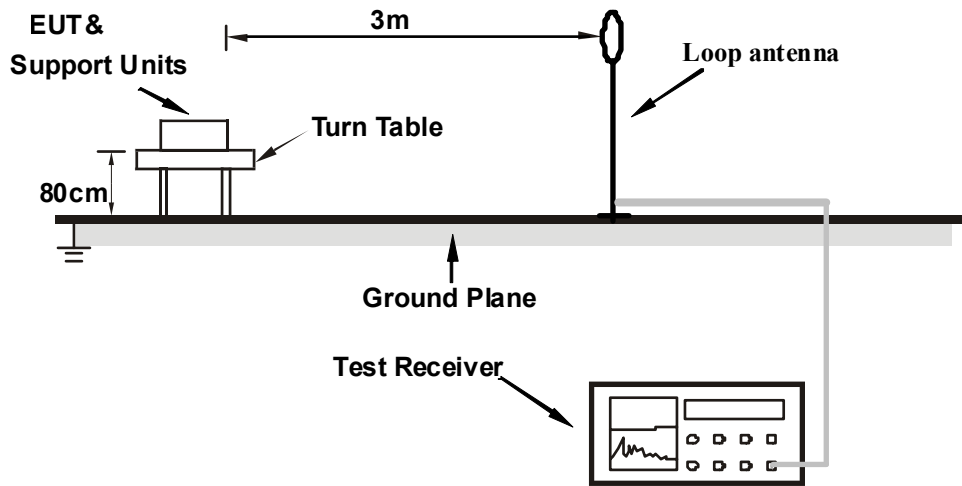
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

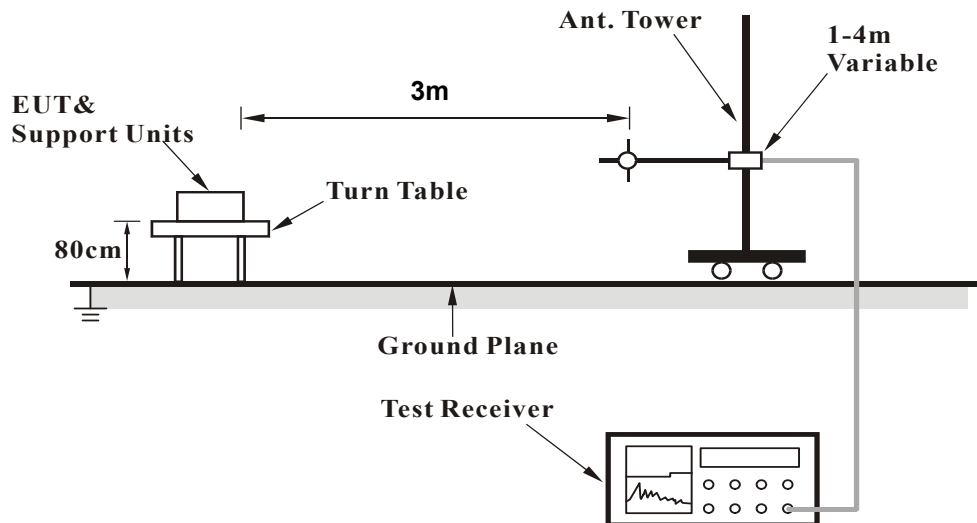
No deviation.

4.1.5 Test Set Up

For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT Operating Conditions

Charging Mode:

Test Mode A

- a. The EUT powered by adapter.
- b. Put the iPhone on the EUT (wireless charging) during the test.
- c. The iPad was charging by EUT via USB cable.

Test Mode B

- a. The EUT powered by adapter.
- b. Put the Apple Watch on the EUT (wireless charging) during the test.
- c. The iPad was charging by EUT via USB cable.

Test Mode C

- a. The EUT powered by adapter.
- b. Put the iPhone and Apple Watch on the EUT (wireless charging) during the test.
- c. The iPad was charging by EUT via USB cable.

Standby Mode:

- a. The EUT powered by adapter.
- b. The iPad was connected with EUT via USB cable.

4.1.7 Test Results

Below 30MHz Data:

Charging Mode

| | | | |
|-----------------|----------------|-------------------|------------|
| Channel | TX Channel 1 | Detector Function | Quasi-Peak |
| Frequency Range | 9 kHz ~ 30 MHz | | |
| Test Mode | A | | |

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA OPEN AT 3m

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *0.1278 | 69.2 | 105.5 | -36.3 | 1.00 | 303 | 49.5 | 19.7 |
| 2 | 3.229 | 43.1 | 69.5 | -26.4 | 1.00 | 234 | 23.5 | 19.6 |
| 3 | 6.449 | 35.8 | 69.5 | -33.7 | 1.00 | 354 | 14.9 | 20.9 |
| 4 | 13.322 | 40.0 | 69.5 | -29.5 | 1.00 | 100 | 18.2 | 21.8 |
| 5 | 17.311 | 44.1 | 69.5 | -25.4 | 1.00 | 9 | 22.3 | 21.8 |
| 6 | 22.743 | 44.7 | 69.5 | -24.8 | 1.00 | 163 | 22.8 | 21.9 |
| 7 | 25.098 | 42.2 | 69.5 | -27.3 | 1.00 | 271 | 20.2 | 22.0 |

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA CLOSE AT 3m

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *0.1278 | 64.7 | 105.5 | -40.8 | 1.00 | 253 | 45.0 | 19.7 |
| 2 | 3.566 | 42.4 | 69.5 | -27.1 | 1.00 | 154 | 22.6 | 19.8 |
| 3 | 7.987 | 32.6 | 69.5 | -36.9 | 1.00 | 62 | 11.3 | 21.3 |
| 4 | 13.659 | 36.2 | 69.5 | -33.3 | 1.00 | 11 | 14.4 | 21.8 |
| 5 | 18.369 | 40.0 | 69.5 | -29.5 | 1.00 | 211 | 18.2 | 21.8 |
| 6 | 23.175 | 37.4 | 69.5 | -32.1 | 1.00 | 309 | 15.4 | 22.0 |
| 7 | 24.857 | 37.8 | 69.5 | -31.7 | 1.00 | 154 | 15.8 | 22.0 |

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA GROUND-PARALLEL AT 3m

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *0.1278 | 68.1 | 105.5 | -37.4 | 1.00 | 205 | 48.4 | 19.7 |
| 2 | 3.758 | 42.4 | 69.5 | -27.1 | 1.00 | 67 | 22.5 | 19.9 |
| 3 | 5.632 | 34.9 | 69.5 | -34.6 | 1.00 | 252 | 14.2 | 20.7 |
| 4 | 12.938 | 35.6 | 69.5 | -33.9 | 1.00 | 157 | 13.8 | 21.8 |
| 5 | 14.908 | 35.0 | 69.5 | -34.5 | 1.00 | 295 | 13.2 | 21.8 |
| 6 | 21.108 | 37.7 | 69.5 | -31.8 | 1.00 | 43 | 15.8 | 21.9 |
| 7 | 23.848 | 34.1 | 69.5 | -35.4 | 1.00 | 228 | 12.1 | 22.0 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40

| | | | |
|-----------------|----------------|-------------------|------------|
| Channel | TX Channel 2 | Detector Function | Quasi-Peak |
| Frequency Range | 9 kHz ~ 30 MHz | | |
| Test Mode | B | | |

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA OPEN AT 3m

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *0.3265 | 53.8 | 97.3 | -43.5 | 1.00 | 333 | 33.7 | 20.1 |
| 2 | 3.758 | 42.7 | 69.5 | -26.8 | 1.00 | 36 | 22.8 | 19.9 |
| 3 | 7.170 | 36.2 | 69.5 | -33.3 | 1.00 | 199 | 15.1 | 21.1 |
| 4 | 12.169 | 37.3 | 69.5 | -32.2 | 1.00 | 158 | 15.5 | 21.8 |
| 5 | 15.581 | 43.5 | 69.5 | -26.0 | 1.00 | 26 | 21.7 | 21.8 |
| 6 | 18.946 | 35.1 | 69.5 | -34.4 | 1.00 | 52 | 13.3 | 21.8 |
| 7 | 22.743 | 47.8 | 69.5 | -21.7 | 1.00 | 169 | 25.9 | 21.9 |

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA CLOSE AT 3m

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *0.3265 | 49.3 | 97.3 | -48.0 | 1.00 | 301 | 29.2 | 20.1 |
| 2 | 3.518 | 37.8 | 69.5 | -31.7 | 1.00 | 162 | 18.0 | 19.8 |
| 3 | 7.795 | 33.9 | 69.5 | -35.6 | 1.00 | 93 | 12.7 | 21.2 |
| 4 | 12.938 | 37.2 | 69.5 | -32.3 | 1.00 | 86 | 15.4 | 21.8 |
| 5 | 15.581 | 43.5 | 69.5 | -26.0 | 1.00 | 26 | 21.7 | 21.8 |
| 6 | 21.108 | 43.4 | 69.5 | -26.1 | 1.00 | 250 | 21.5 | 21.9 |
| 7 | 24.905 | 37.1 | 69.5 | -32.4 | 1.00 | 311 | 15.1 | 22.0 |

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA GROUND-PARALLEL AT 3m

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *0.3265 | 46.3 | 97.3 | -51.0 | 1.00 | 188 | 26.2 | 20.1 |
| 2 | 3.758 | 42.7 | 69.5 | -26.8 | 1.00 | 36 | 22.8 | 19.9 |
| 3 | 7.795 | 33.9 | 69.5 | -35.6 | 1.00 | 93 | 12.7 | 21.2 |
| 4 | 12.938 | 37.2 | 69.5 | -32.3 | 1.00 | 86 | 15.4 | 21.8 |
| 5 | 17.311 | 42.6 | 69.5 | -26.9 | 1.00 | 319 | 20.8 | 21.8 |
| 6 | 22.262 | 39.0 | 69.5 | -30.5 | 1.00 | 82 | 17.1 | 21.9 |
| 7 | 23.944 | 35.0 | 69.5 | -34.5 | 1.00 | 23 | 13.0 | 22.0 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40

| | | | |
|-----------------|----------------|-------------------|------------|
| Channel | TX Channel 1+2 | Detector Function | Quasi-Peak |
| Frequency Range | 9 kHz ~ 30 MHz | | |
| Test Mode | C | | |

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA OPEN AT 3m

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *0.1278 | 69.1 | 105.5 | -36.4 | 1.00 | 303 | 49.4 | 19.7 |
| 2 | *0.3265 | 53.6 | 97.3 | -43.7 | 1.00 | 333 | 33.5 | 20.1 |
| 3 | 3.566 | 43.5 | 69.5 | -26.0 | 1.00 | 118 | 23.7 | 19.8 |
| 4 | 12.217 | 37.7 | 69.5 | -31.8 | 1.00 | 348 | 15.9 | 21.8 |
| 5 | 15.149 | 42.0 | 69.5 | -27.5 | 1.00 | 228 | 20.2 | 21.8 |
| 6 | 18.369 | 38.9 | 69.5 | -30.6 | 1.00 | 250 | 17.1 | 21.8 |
| 7 | 21.637 | 43.3 | 69.5 | -26.2 | 1.00 | 135 | 21.4 | 21.9 |
| 8 | 24.473 | 42.1 | 69.5 | -27.4 | 1.00 | 79 | 20.1 | 22.0 |

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA CLOSE AT 3m

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *0.1278 | 64.4 | 105.5 | -41.1 | 1.00 | 253 | 44.7 | 19.7 |
| 2 | *0.3265 | 49.2 | 97.3 | -48.1 | 1.00 | 301 | 29.1 | 20.1 |
| 3 | 3.229 | 42.3 | 69.5 | -27.2 | 1.00 | 226 | 22.7 | 19.6 |
| 4 | 6.017 | 34.8 | 69.5 | -34.7 | 1.00 | 273 | 14.0 | 20.8 |
| 5 | 13.322 | 38.7 | 69.5 | -30.8 | 1.00 | 219 | 16.9 | 21.8 |
| 6 | 17.311 | 42.1 | 69.5 | -27.4 | 1.00 | 90 | 20.3 | 21.8 |
| 7 | 22.743 | 47.8 | 69.5 | -21.7 | 1.00 | 289 | 25.9 | 21.9 |
| 8 | 25.098 | 42.5 | 69.5 | -27.0 | 1.00 | 267 | 20.5 | 22.0 |

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA GROUND-PARALLEL AT 3m

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *0.1278 | 67.9 | 105.5 | -37.6 | 1.00 | 205 | 48.2 | 19.7 |
| 2 | *0.3265 | 46.2 | 97.3 | -51.1 | 1.00 | 188 | 26.1 | 20.1 |
| 3 | 3.566 | 43.5 | 69.5 | -26.0 | 1.00 | 118 | 23.7 | 19.8 |
| 4 | 8.852 | 33.4 | 69.5 | -36.1 | 1.00 | 8 | 11.9 | 21.5 |
| 5 | 14.043 | 37.4 | 69.5 | -32.1 | 1.00 | 219 | 15.6 | 21.8 |
| 6 | 19.474 | 37.6 | 69.5 | -31.9 | 1.00 | 31 | 15.8 | 21.8 |
| 7 | 22.214 | 41.8 | 69.5 | -27.7 | 1.00 | 135 | 19.9 | 21.9 |
| 8 | 24.857 | 36.9 | 69.5 | -32.6 | 1.00 | 307 | 14.9 | 22.0 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40

Standby Mode

| | | | |
|-----------------|----------------|-------------------|------------|
| Channel | TX Channel 1 | Detector Function | Quasi-Peak |
| Frequency Range | 9 kHz ~ 30 MHz | | |
| Test Mode | A | | |

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA OPEN AT 3m

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *0.1278 | 43.1 | 105.5 | -62.4 | 1.00 | 341 | 23.4 | 19.7 |

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA CLOSE AT 3m

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *0.1278 | 40.7 | 105.5 | -64.8 | 1.00 | 163 | 21.0 | 19.7 |

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA GROUND-PARALLEL AT 3m

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *0.1278 | 40.0 | 105.5 | -65.5 | 1.00 | 298 | 20.3 | 19.7 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40

| | | | |
|-----------------|----------------|-------------------|------------|
| Channel | TX Channel 2 | Detector Function | Quasi-Peak |
| Frequency Range | 9 kHz ~ 30 MHz | | |
| Test Mode | B | | |

| ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA OPEN AT 3m | | | | | | | | |
|--|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *0.3265 | 33.3 | 97.3 | -64.0 | 1.00 | 199 | 13.2 | 20.1 |
| ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA CLOSE AT 3m | | | | | | | | |
| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *0.3265 | 31.2 | 97.3 | -66.1 | 1.00 | 241 | 11.1 | 20.1 |
| ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA GROUND-PARALLEL AT 3m | | | | | | | | |
| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *0.3265 | 31.6 | 97.3 | -65.7 | 1.00 | 305 | 11.5 | 20.1 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40

| | | | |
|-----------------|----------------|-------------------|------------|
| Channel | TX Channel 1+2 | Detector Function | Quasi-Peak |
| Frequency Range | 9 kHz ~ 30 MHz | | |
| Test Mode | C | | |

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA OPEN AT 3m

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *0.1278 | 43.0 | 105.5 | -62.5 | 1.00 | 341 | 23.3 | 19.7 |
| 2 | *0.3265 | 33.2 | 97.3 | -64.1 | 1.00 | 199 | 13.1 | 20.1 |
| 3 | 0.255 | 45.5 | 99.5 | -54.0 | 1.00 | 222 | 25.6 | 19.9 |
| 4 | 0.653 | 35.1 | 71.3 | -36.2 | 1.00 | 11 | 14.9 | 20.2 |
| 5 | 3.229 | 43.5 | 69.5 | -26.0 | 1.00 | 308 | 23.9 | 19.6 |
| 6 | 13.322 | 38.6 | 69.5 | -30.9 | 1.00 | 2 | 16.8 | 21.8 |
| 7 | 20.532 | 37.1 | 69.5 | -32.4 | 1.00 | 181 | 15.2 | 21.9 |
| 8 | 24.184 | 34.2 | 69.5 | -35.3 | 1.00 | 141 | 12.2 | 22.0 |

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA CLOSE AT 3m

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *0.1278 | 40.4 | 105.5 | -65.1 | 1.00 | 163 | 20.7 | 19.7 |
| 2 | *0.3265 | 31.6 | 97.3 | -65.7 | 1.00 | 241 | 11.5 | 20.1 |
| 3 | 0.255 | 43.7 | 99.5 | -55.8 | 1.00 | 156 | 23.8 | 19.9 |
| 4 | 0.653 | 31.3 | 71.3 | -40.0 | 1.00 | 29 | 11.1 | 20.2 |
| 5 | 3.854 | 36.1 | 69.5 | -33.4 | 1.00 | 162 | 16.2 | 19.9 |
| 6 | 13.322 | 38.6 | 69.5 | -30.9 | 1.00 | 2 | 16.8 | 21.8 |
| 7 | 20.532 | 37.1 | 69.5 | -32.4 | 1.00 | 181 | 15.2 | 21.9 |
| 8 | 24.905 | 37.6 | 69.5 | -31.9 | 1.00 | 227 | 15.6 | 22.0 |

ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA GROUND-PARALLEL AT 3m

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *0.1278 | 40.2 | 105.5 | -65.3 | 1.00 | 298 | 20.5 | 19.7 |
| 2 | *0.3265 | 31.5 | 97.3 | -65.8 | 1.00 | 305 | 11.4 | 20.1 |
| 3 | 0.255 | 42.4 | 99.5 | -57.1 | 1.00 | 287 | 22.5 | 19.9 |
| 4 | 0.653 | 30.9 | 71.3 | -40.4 | 1.00 | 56 | 10.7 | 20.2 |
| 5 | 3.470 | 37.8 | 69.5 | -31.7 | 1.00 | 47 | 18.0 | 19.8 |
| 6 | 12.746 | 35.5 | 69.5 | -34.0 | 1.00 | 277 | 13.7 | 21.8 |
| 7 | 15.774 | 35.4 | 69.5 | -34.1 | 1.00 | 106 | 13.6 | 21.8 |
| 8 | 20.580 | 36.7 | 69.5 | -32.8 | 1.00 | 181 | 14.8 | 21.9 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ * “: Fundamental frequency.
6. Loop antenna was used for all radiated emission below 30MHz.
7. Limit @3m=Limit@300m+40log(300 / 3)=Limit@300m+80
8. Limit @3m=Limit@30m+40log(30 / 3)=Limit@30m+40

Below 1GHz Data:

Charging Mode

| | | | |
|-----------------|---------------|-------------------|------------|
| Channel | TX Channel 1 | Detector Function | Quasi-Peak |
| Frequency Range | 30 MHz ~ 1GHz | | |
| Test Mode | A | | |

| Antenna Polarity & Test Distance: Horizontal At 3m | | | | | | | | |
|--|--------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 70.73 | 28.3 QP | 40.0 | -11.7 | 1.99 H | 129 | 39.6 | -11.3 |
| 2 | 131.00 | 35.8 QP | 43.5 | -7.7 | 1.50 H | 235 | 46.1 | -10.3 |
| 3 | 239.88 | 25.8 QP | 46.0 | -20.2 | 1.00 H | 197 | 35.4 | -9.6 |
| 4 | 477.09 | 26.0 QP | 46.0 | -20.0 | 1.99 H | 13 | 29.3 | -3.3 |
| 5 | 527.64 | 28.1 QP | 46.0 | -17.9 | 1.50 H | 315 | 30.6 | -2.5 |
| 6 | 708.46 | 29.7 QP | 46.0 | -16.3 | 1.50 H | 39 | 28.3 | 1.4 |
| Antenna Polarity & Test Distance: Vertical At 3m | | | | | | | | |
| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 68.79 | 33.4 QP | 40.0 | -6.6 | 1.01 V | 16 | 44.2 | -10.8 |
| 2 | 138.78 | 26.1 QP | 43.5 | -17.4 | 2.00 V | 16 | 35.8 | -9.7 |
| 3 | 241.83 | 21.6 QP | 46.0 | -24.4 | 1.01 V | 2 | 31.0 | -9.4 |
| 4 | 473.20 | 25.3 QP | 46.0 | -20.7 | 1.01 V | 9 | 28.7 | -3.4 |
| 5 | 549.03 | 30.4 QP | 46.0 | -15.6 | 1.01 V | 16 | 32.3 | -1.9 |
| 6 | 790.12 | 31.6 QP | 46.0 | -14.4 | 2.00 V | 243 | 28.5 | 3.1 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

| | | | |
|-----------------|---------------|-------------------|------------|
| Channel | TX Channel 2 | Detector Function | Quasi-Peak |
| Frequency Range | 30 MHz ~ 1GHz | | |
| Test Mode | B | | |

| Antenna Polarity & Test Distance: Horizontal At 3m | | | | | | | | |
|--|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 57.12 | 27.6 QP | 40.0 | -12.4 | 2.00 H | 203 | 37.1 | -9.5 |
| 2 | 132.95 | 35.9 QP | 43.5 | -7.6 | 1.51 H | 272 | 46.1 | -10.2 |
| 3 | 224.33 | 24.7 QP | 46.0 | -21.3 | 1.51 H | 5 | 35.6 | -10.9 |
| 4 | 449.87 | 31.4 QP | 46.0 | -14.6 | 1.51 H | 5 | 35.2 | -3.8 |
| 5 | 646.24 | 28.6 QP | 46.0 | -17.4 | 2.00 H | 223 | 28.3 | 0.3 |
| 6 | 747.34 | 34.2 QP | 46.0 | -11.8 | 1.01 H | 16 | 31.7 | 2.5 |

| Antenna Polarity & Test Distance: Vertical At 3m | | | | | | | | |
|--|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 70.73 | 33.3 QP | 40.0 | -6.7 | 1.50 V | 2 | 44.6 | -11.3 |
| 2 | 134.89 | 26.5 QP | 43.5 | -17.0 | 1.50 V | 2 | 36.4 | -9.9 |
| 3 | 267.10 | 19.7 QP | 46.0 | -26.3 | 1.00 V | 163 | 28.0 | -8.3 |
| 4 | 440.14 | 28.9 QP | 46.0 | -17.1 | 1.99 V | 189 | 32.9 | -4.0 |
| 5 | 626.80 | 29.2 QP | 46.0 | -16.8 | 1.50 V | 89 | 29.1 | 0.1 |
| 6 | 766.79 | 31.0 QP | 46.0 | -15.0 | 1.50 V | 2 | 28.2 | 2.8 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

| | | | |
|-----------------|----------------|-------------------|------------|
| Channel | TX Channel 1+2 | Detector Function | Quasi-Peak |
| Frequency Range | 30 MHz ~ 1GHz | | |
| Test Mode | C | | |

| Antenna Polarity & Test Distance: Horizontal At 3m | | | | | | | | |
|--|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 70.73 | 28.6 QP | 40.0 | -11.4 | 1.49 H | 148 | 39.9 | -11.3 |
| 2 | 134.48 | 33.9 QP | 43.5 | -9.6 | 1.48 H | 241 | 43.9 | -10.0 |
| 3 | 239.88 | 29.3 QP | 46.0 | -16.7 | 1.00 H | 207 | 38.9 | -9.6 |
| 4 | 463.48 | 31.4 QP | 46.0 | -14.6 | 1.99 H | 351 | 35.1 | -3.7 |
| 5 | 710.40 | 29.4 QP | 46.0 | -16.6 | 1.49 H | 75 | 28.0 | 1.4 |
| 6 | 832.89 | 32.1 QP | 46.0 | -13.9 | 1.49 H | 256 | 28.1 | 4.0 |

| Antenna Polarity & Test Distance: Vertical At 3m | | | | | | | | |
|--|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 70.07 | 31.8 QP | 40.0 | -8.2 | 1.00 V | 165 | 42.9 | -11.1 |
| 2 | 132.95 | 29.7 QP | 43.5 | -13.8 | 1.00 V | 13 | 39.9 | -10.2 |
| 3 | 235.99 | 24.0 QP | 46.0 | -22.0 | 1.00 V | 153 | 34.2 | -10.2 |
| 4 | 440.14 | 29.3 QP | 46.0 | -16.7 | 1.00 V | 207 | 33.3 | -4.0 |
| 5 | 745.40 | 33.8 QP | 46.0 | -12.2 | 2.00 V | 7 | 31.3 | 2.5 |
| 6 | 908.72 | 33.7 QP | 46.0 | -12.3 | 1.49 V | 61 | 28.2 | 5.5 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

Standby Mode

| | | | |
|-----------------|----------------|-------------------|------------|
| Channel | TX Channel 1+2 | Detector Function | Quasi-Peak |
| Frequency Range | 30 MHz ~ 1GHz | | |
| Test Mode | C | | |

| Antenna Polarity & Test Distance: Horizontal At 3m | | | | | | | | |
|--|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 57.12 | 27.3 QP | 40.0 | -12.7 | 2.00 H | 234 | 36.8 | -9.5 |
| 2 | 160.17 | 23.1 QP | 43.5 | -20.4 | 2.00 H | 106 | 31.8 | -8.7 |
| 3 | 339.04 | 21.2 QP | 46.0 | -24.8 | 1.00 H | 27 | 27.5 | -6.3 |
| 4 | 533.47 | 27.4 QP | 46.0 | -18.6 | 1.49 H | 315 | 29.8 | -2.4 |
| 5 | 681.24 | 29.6 QP | 46.0 | -16.4 | 2.00 H | 16 | 28.8 | 0.8 |
| 6 | 871.78 | 33.1 QP | 46.0 | -12.9 | 1.00 H | 18 | 28.3 | 4.8 |
| Antenna Polarity & Test Distance: Vertical At 3m | | | | | | | | |
| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 41.57 | 24.1 QP | 40.0 | -15.9 | 1.01 V | 221 | 33.8 | -9.7 |
| 2 | 156.28 | 20.6 QP | 43.5 | -22.9 | 1.01 V | 16 | 29.2 | -8.6 |
| 3 | 366.26 | 22.2 QP | 46.0 | -23.8 | 2.00 V | 253 | 28.0 | -5.8 |
| 4 | 488.75 | 26.6 QP | 46.0 | -19.4 | 1.01 V | 259 | 29.7 | -3.1 |
| 5 | 689.01 | 28.9 QP | 46.0 | -17.1 | 1.51 V | 132 | 27.9 | 1.0 |
| 6 | 817.34 | 32.2 QP | 46.0 | -13.8 | 1.01 V | 14 | 28.3 | 3.9 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

| Frequency (MHz) | Conducted Limit (dBuV) | |
|-----------------|------------------------|---------|
| | Quasi-peak | Average |
| 0.15 - 0.5 | 66 - 56 | 56 - 46 |
| 0.50 - 5.0 | 56 | 46 |
| 5.0 - 30.0 | 60 | 50 |

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

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2.2 Test Instruments

| Description & Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Due |
|--|--------------------------|----------------|---------------|---------------|
| Test Receiver ROHDE & SCHWARZ | ESR3 | 102412 | Feb. 08, 2018 | Feb. 07, 2019 |
| RF signal cable (with 10dB PAD) Woken | 5D-FB | Cable-cond2-01 | Sep. 08, 2017 | Sep. 07, 2018 |
| LISN ROHDE & SCHWARZ (EUT) | ESH2-Z5 | 100100 | Feb. 05, 2018 | Feb. 04, 2019 |
| LISN ROHDE & SCHWARZ (Peripheral) | ESH3-Z5 | 100311 | Aug. 16, 2017 | Aug. 15, 2018 |
| Software ADT | BV ADT_Cond_ V7.3.7.4 | NA | NA | NA |

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Shielded Room 2.

3. The VCCI Site Registration No. is C-2047.

4.2.3 Test Procedures

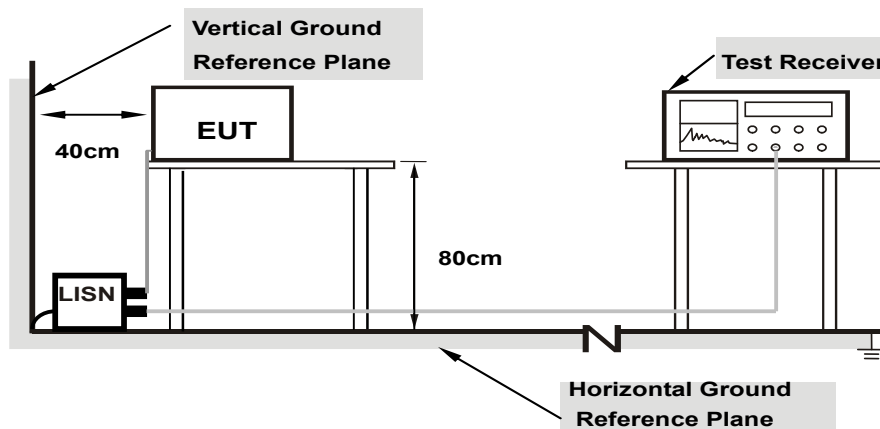
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT Operating Conditions

Same as 4.1.6.

4.2.7 Test Results

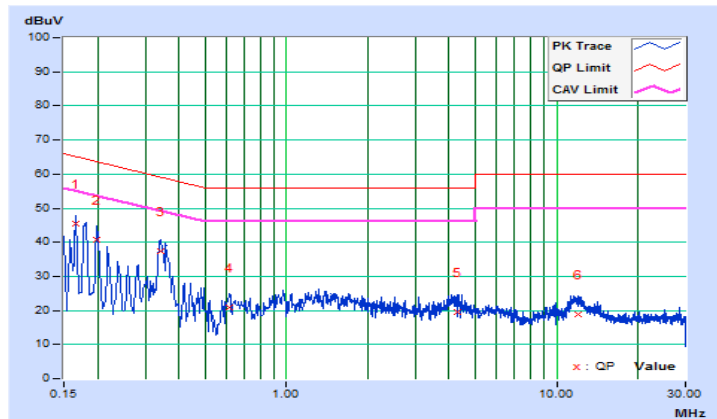
Charging Mode

| | | | |
|-----------|----------|-------------------|--------------------------------|
| Phase | Line (L) | Detector Function | Quasi-Peak (QP) / Average (AV) |
| Test Mode | A | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----|----------------|----------------------|----------------------------|---------|-----------------------------|-------|--------------------|-------|----------------|--------|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| | | | 1 | 0.16600 | 10.30 | 35.04 | 15.51 | 45.34 | 25.81 | 65.16 |
| 2 | 0.19800 | 10.32 | 30.42 | 14.72 | 40.74 | 25.04 | 63.69 | 53.69 | -22.95 | -28.65 |
| 3 | 0.34200 | 10.34 | 27.10 | 17.25 | 37.44 | 27.59 | 59.15 | 49.15 | -21.71 | -21.56 |
| 4 | 0.61407 | 10.36 | 10.47 | 3.20 | 20.83 | 13.56 | 56.00 | 46.00 | -35.17 | -32.44 |
| 5 | 4.29800 | 10.57 | 8.83 | 2.04 | 19.40 | 12.61 | 56.00 | 46.00 | -36.60 | -33.39 |
| 6 | 12.07800 | 10.98 | 7.87 | 3.75 | 18.85 | 14.73 | 60.00 | 50.00 | -41.15 | -35.27 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

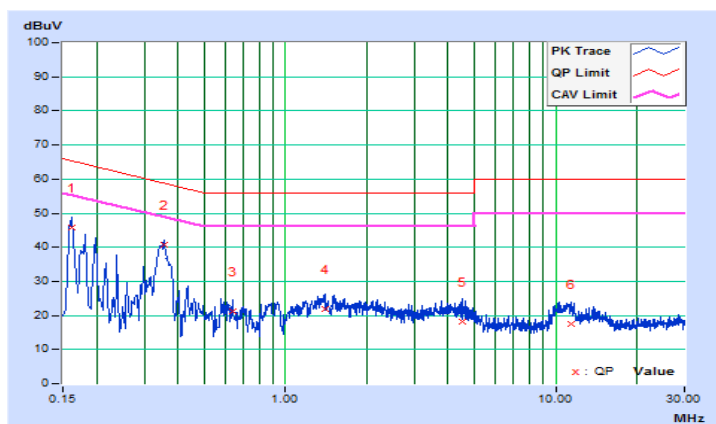


| | | | |
|-----------|-------------|-------------------|--------------------------------|
| Phase | Neutral (N) | Detector Function | Quasi-Peak (QP) / Average (AV) |
| Test Mode | A | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----------|----------------|----------------------|----------------------------|--------------|-----------------------------|--------------|--------------------|--------------|----------------|---------------|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| | | | 1 | 0.16190 | 10.33 | 35.56 | 16.97 | 45.89 | 27.30 | 65.37 |
| 2 | 0.35407 | 10.30 | 30.29 | 23.57 | 40.59 | 33.87 | 58.87 | 48.87 | -18.28 | -15.00 |
| 3 | 0.63800 | 10.34 | 10.78 | 4.08 | 21.12 | 14.42 | 56.00 | 46.00 | -34.88 | -31.58 |
| 4 | 1.40200 | 10.42 | 11.51 | 5.29 | 21.93 | 15.71 | 56.00 | 46.00 | -34.07 | -30.29 |
| 5 | 4.51000 | 10.57 | 7.66 | 2.37 | 18.23 | 12.94 | 56.00 | 46.00 | -37.77 | -33.06 |
| 6 | 11.49400 | 10.85 | 6.75 | 1.95 | 17.60 | 12.80 | 60.00 | 50.00 | -42.40 | -37.20 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

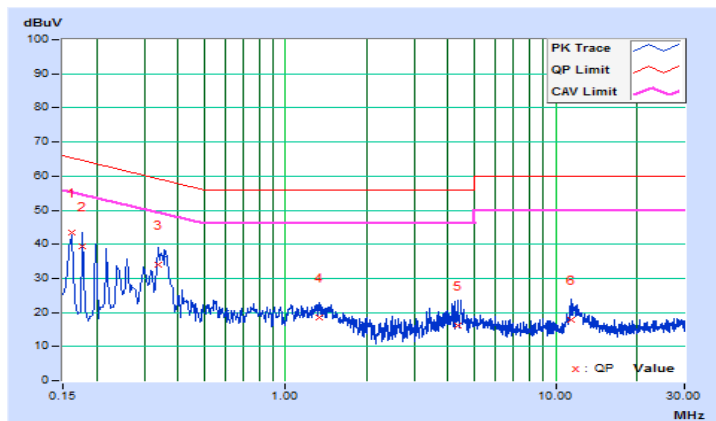


| | | | |
|-----------|----------|-------------------|--------------------------------|
| Phase | Line (L) | Detector Function | Quasi-Peak (QP) / Average (AV) |
| Test Mode | B | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----|----------------|----------------------|----------------------------|---------|-----------------------------|-------|--------------------|-------|----------------|--------|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| | | | 1 | 0.16148 | 10.30 | 33.09 | 15.12 | 43.39 | 25.42 | 65.39 |
| 2 | 0.17801 | 10.31 | 29.24 | 10.40 | 39.55 | 20.71 | 64.58 | 54.58 | -25.03 | -33.87 |
| 3 | 0.33800 | 10.34 | 23.54 | 13.42 | 33.88 | 23.76 | 59.25 | 49.25 | -25.37 | -25.49 |
| 4 | 1.33800 | 10.41 | 7.97 | 2.84 | 18.38 | 13.25 | 56.00 | 46.00 | -37.62 | -32.75 |
| 5 | 4.33800 | 10.57 | 5.66 | 1.11 | 16.23 | 11.68 | 56.00 | 46.00 | -39.77 | -34.32 |
| 6 | 11.46200 | 10.94 | 6.99 | 2.05 | 17.93 | 12.99 | 60.00 | 50.00 | -42.07 | -37.01 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

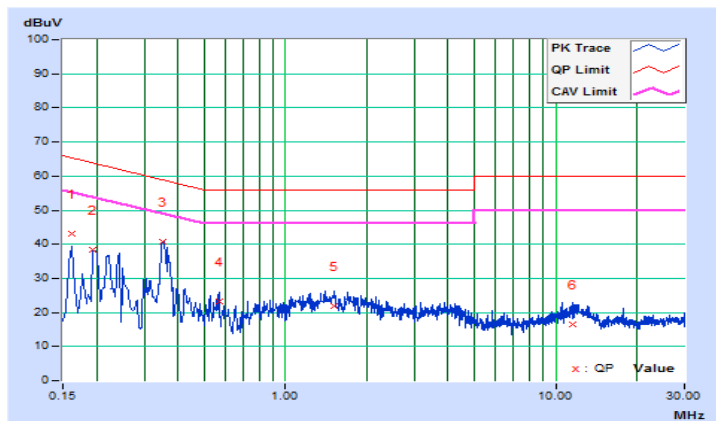


| | | | |
|-----------|-------------|-------------------|--------------------------------|
| Phase | Neutral (N) | Detector Function | Quasi-Peak (QP) / Average (AV) |
| Test Mode | B | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----|----------------|-------------------------|----------------------------|---------|-----------------------------|-------|--------------------|-------|----------------|--------|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| | | | 1 | 0.16190 | 10.33 | 32.69 | 14.87 | 43.02 | 25.20 | 65.37 |
| 2 | 0.19418 | 10.30 | 27.98 | 10.27 | 38.28 | 20.57 | 63.86 | 53.86 | -25.58 | -33.29 |
| 3 | 0.35035 | 10.30 | 30.30 | 21.96 | 40.60 | 32.26 | 58.95 | 48.95 | -18.35 | -16.69 |
| 4 | 0.56591 | 10.33 | 12.75 | 4.88 | 23.08 | 15.21 | 56.00 | 46.00 | -32.92 | -30.79 |
| 5 | 1.51800 | 10.43 | 11.59 | 5.11 | 22.02 | 15.54 | 56.00 | 46.00 | -33.98 | -30.46 |
| 6 | 11.63000 | 10.85 | 5.51 | 2.13 | 16.36 | 12.98 | 60.00 | 50.00 | -43.64 | -37.02 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

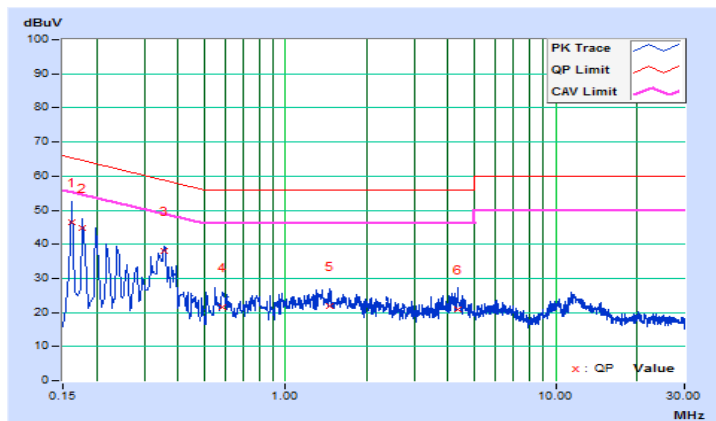


| | | | |
|-----------|----------|-------------------|--------------------------------|
| Phase | Line (L) | Detector Function | Quasi-Peak (QP) / Average (AV) |
| Test Mode | C | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----|----------------|----------------------|----------------------------|---------|-----------------------------|-------|--------------------|-------|----------------|--------|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| | | | 1 | 0.16200 | 10.30 | 36.07 | 18.00 | 46.37 | 28.30 | 65.36 |
| 2 | 0.17801 | 10.31 | 34.48 | 17.29 | 44.79 | 27.60 | 64.58 | 54.58 | -19.79 | -26.98 |
| 3 | 0.35800 | 10.34 | 27.59 | 20.87 | 37.93 | 31.21 | 58.77 | 48.77 | -20.84 | -17.56 |
| 4 | 0.58717 | 10.36 | 11.25 | 4.05 | 21.61 | 14.41 | 56.00 | 46.00 | -34.39 | -31.59 |
| 5 | 1.45800 | 10.41 | 11.62 | 6.57 | 22.03 | 16.98 | 56.00 | 46.00 | -33.97 | -29.02 |
| 6 | 4.33400 | 10.57 | 10.45 | 3.57 | 21.02 | 14.14 | 56.00 | 46.00 | -34.98 | -31.86 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

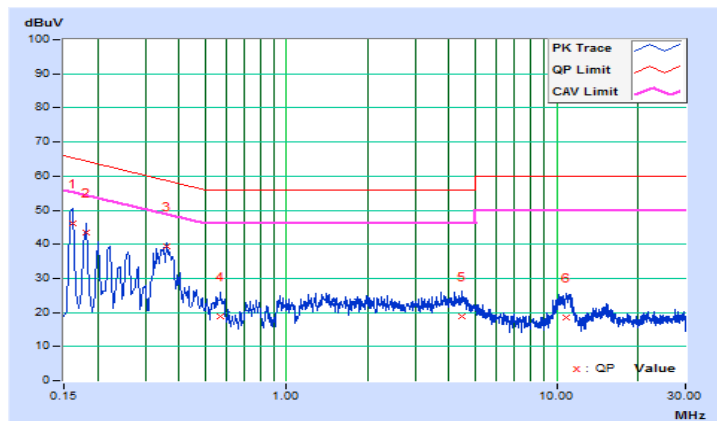


| | | | |
|-----------|-------------|-------------------|--------------------------------|
| Phase | Neutral (N) | Detector Function | Quasi-Peak (QP) / Average (AV) |
| Test Mode | C | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----|----------------|----------------------|----------------------------|---------|-----------------------------|-------|--------------------|-------|----------------|--------|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| | | | 1 | 0.16148 | 10.33 | 35.63 | 17.06 | 45.96 | 27.39 | 65.39 |
| 2 | 0.18200 | 10.31 | 33.24 | 16.26 | 43.55 | 26.57 | 64.39 | 54.39 | -20.84 | -27.82 |
| 3 | 0.36200 | 10.30 | 29.00 | 21.66 | 39.30 | 31.96 | 58.68 | 48.68 | -19.38 | -16.72 |
| 4 | 0.57000 | 10.33 | 8.41 | 1.54 | 18.74 | 11.87 | 56.00 | 46.00 | -37.26 | -34.13 |
| 5 | 4.44600 | 10.57 | 8.36 | 2.91 | 18.93 | 13.48 | 56.00 | 46.00 | -37.07 | -32.52 |
| 6 | 10.89400 | 10.82 | 7.75 | 3.38 | 18.57 | 14.20 | 60.00 | 50.00 | -41.43 | -35.80 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



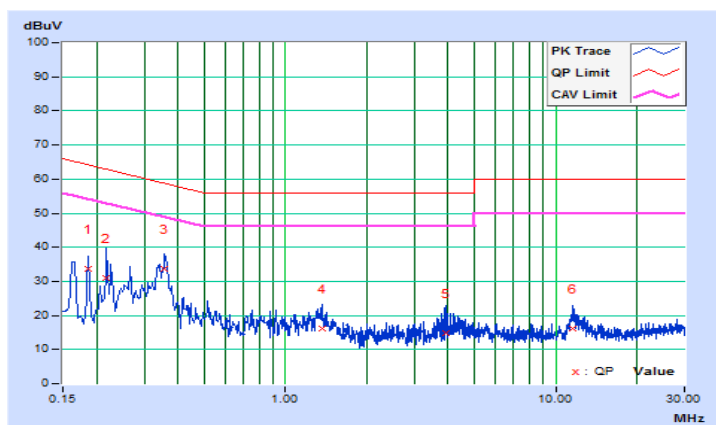
Standby Mode

| | | | |
|-----------|----------|-------------------|--------------------------------|
| Phase | Line (L) | Detector Function | Quasi-Peak (QP) / Average (AV) |
| Test Mode | C | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----|----------------|----------------------|----------------------------|---------|-----------------------------|-------|--------------------|-------|----------------|--------|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| | | | 1 | 0.18600 | 10.32 | 23.49 | 2.70 | 33.81 | 13.02 | 64.21 |
| 2 | 0.21800 | 10.33 | 20.78 | 9.33 | 31.11 | 19.66 | 62.89 | 52.89 | -31.78 | -33.23 |
| 3 | 0.35800 | 10.34 | 23.31 | 10.32 | 33.65 | 20.66 | 58.77 | 48.77 | -25.12 | -28.11 |
| 4 | 1.36200 | 10.41 | 5.71 | 1.54 | 16.12 | 11.95 | 56.00 | 46.00 | -39.88 | -34.05 |
| 5 | 3.93400 | 10.55 | 4.37 | 1.22 | 14.92 | 11.77 | 56.00 | 46.00 | -41.08 | -34.23 |
| 6 | 11.62200 | 10.95 | 5.13 | 1.63 | 16.08 | 12.58 | 60.00 | 50.00 | -43.92 | -37.42 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

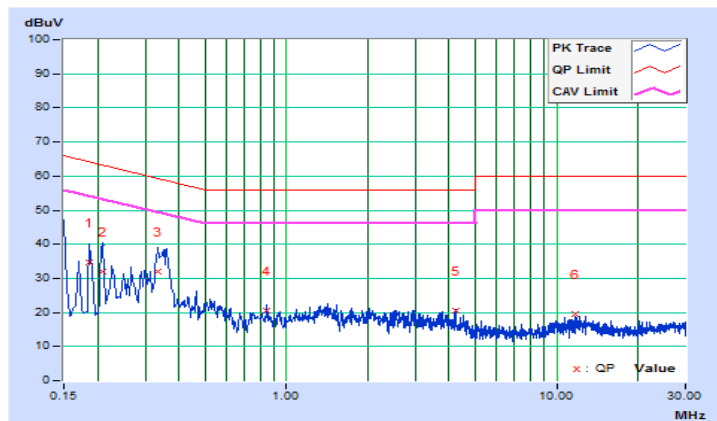


| | | | |
|-----------|-------------|-------------------|--------------------------------|
| Phase | Neutral (N) | Detector Function | Quasi-Peak (QP) / Average (AV) |
| Test Mode | C | | |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----|----------------|-------------------------|----------------------------|---------|-----------------------------|-------|--------------------|-------|----------------|--------|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| | | | 1 | 0.18600 | 10.31 | 24.40 | 4.47 | 34.71 | 14.78 | 64.21 |
| 2 | 0.20850 | 10.29 | 21.58 | 2.61 | 31.87 | 12.90 | 63.26 | 53.26 | -31.39 | -40.36 |
| 3 | 0.33413 | 10.30 | 21.80 | 6.70 | 32.10 | 17.00 | 59.35 | 49.35 | -27.25 | -32.35 |
| 4 | 0.84600 | 10.37 | 10.33 | 4.51 | 20.70 | 14.88 | 56.00 | 46.00 | -35.30 | -31.12 |
| 5 | 4.25000 | 10.56 | 9.88 | 3.89 | 20.44 | 14.45 | 56.00 | 46.00 | -35.56 | -31.55 |
| 6 | 11.65800 | 10.86 | 8.54 | 3.11 | 19.40 | 13.97 | 60.00 | 50.00 | -40.60 | -36.03 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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