

FCC Test Report

Report No.: RFBEDW-WTW-P22050062

FCC ID: E2K-DWRFID2108

Test Model: DWRFID2108

Received Date: May 03, 2022

Test Date: Jul. 07 ~ Jul. 09, 2022

Issued Date: Jul. 25, 2022

Applicant: Dell Inc.

Address: One Dell Way, Round Rock, Texas 78682, USA

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

Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City

33383, Taiwan

FCC Registration /

Designation Number: 788550 / TW0003





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Release Control Record

| Issue No. | Description | Date Issued |
|----------------------|------------------|---------------|
| RFBEDW-WTW-P22050062 | Original release | Jul. 25, 2022 |



1 Certificate of Conformity

Product: RFID 13.56MHz Wireless Module

Brand: DELL

Model: DWRFID2108

Sample Status: Production Unit

Applicant: Dell Inc.

Test Date: Jul. 07 ~ Jul. 09, 2022

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.225)

47 CFR FCC Part 15, Subpart C (Section 15.215)

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.

Pettie Chen / Senior Specialist

Jeremy Lin / Project Engineer



2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart C (Section 15.225, 15.215) | | | | | | |
|--|--|--------|---|--|--|--|
| FCC Clause | Test Item | Result | Remarks | | | |
| 15.207 | Conducted emission test | Pass | Meet the requirement of limit. Minimum passing margin is -15.67dB at 0.18200MHz | | | |
| 15.225 (a) | The field strength of any emissions within the band 13.553-13.567 MHz | Pass | Meet the requirement of limit. Minimum passing margin is -70.60dB at 13.56MHz. | | | |
| 15.225 (b) | The field strength of any emissions within the bands 13.410-13.553 MHz and 13.567-13.710 MHz | Pass | Meet the requirement of limit. | | | |
| 15.225 (c) | The field strength of any emissions within the bands 13.110-13.410 MHz and 13.710-14.010 MHz | Pass | Meet the requirement of limit. | | | |
| 15.225 (d) | The field strength of any emissions appearing outside of the 13.110-14.010 MHz band | Pass | Meet the requirement of limit. Minimum passing margin is -4.1dB at 34.85MHz. | | | |
| 15.225 (e) | The frequency tolerance | Pass | Meet the requirement of limit. | | | |
| 15.215 (c) | 20dB Bandwidth | Pass | Meet the requirement of limit. | | | |

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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) (±) |
|------------------------------------|-----------------|--------------------------------|
| Conducted Emissions at mains ports | 150kHz ~ 30MHz | 2.79 dB |
| | 9kHz ~ 30MHz | 2.44 dB |
| Radiated Emissions up to 1 GHz | 30MHz ~ 200MHz | 2.93 dB |
| | 200MHz ~1000MHz | 2.95 dB |

2.2 Modification Record

There were no modifications required for compliance.



3 General Information

3.1 General Description of EUT

| Product | RFID 13.56MHz Wireless Module |
|---------------------|--------------------------------|
| Brand | DELL |
| Model | DWRFID2108 |
| Sample Status | Production Unit |
| Power Supply Rating | 3.3 Vdc (host equipment) |
| Modulation Type | ASK |
| | Type A: 106 kbit/s |
| Data Rate | Type B: 106 kbit/s |
| Dala Rale | Type F: 212 kbit/s, 424 kbit/s |
| | Type V: 26.48 kbit/s |
| Operating Frequency | 13.56MHz |
| Field Strength | 13.40dBμV/m (30m) |
| Antenna Type | Refer to Note as below |
| Accessory Device | Refer to Note as below |
| Data Cable Supplied | NA |

Note:

1. The EUT is authorized for use in specific End-product. Please refer to below for more details.

| Product | Brand | Model |
|-----------------|-------|-------|
| Tablet Computer | DELL | Т06Н |

2. The antenna information is listed as below.

| Antenna Manufacturer Antenna Model No. | | Antenna Type | Antenna Gain (dBi) |
|--|------------------------|--------------|--------------------|
| Hong.Bo | 1FP3J (DC33002PC0L) | Loop Antenna | N/A |

^{*} Due to radiated measurements are made and the antenna gain is already accounted for this device, so provide an antenna datasheet and/or antenna measurement report is not required. The antenna dimensions and pictures (include antenna wire length if have) are stated in EUT photo exhibit.

3. The End-product contains following accessory devices.

| Product | Brand | Model | Description |
|-----------|-------|-----------|--|
| Adapter | DELL | DA90PM210 | I/P: 100-240 Vac, 50-60 Hz, 1.5A O/P: 20Vdc, 4.5A or 15Vdc, 3A or 9Vdc, 3A or 5Vdc, 3A Power cord: 0.85m |
| Battery | DELL | 6WVHD | Rating: 7.6Vdc, 4457mAh, 35.6Wh |
| Touch Pen | DELL | TJW03 | - |
| Keypad | DELL | T06HKYBP | - |

3.2 Description of Test Modes

1 channel is provided to this EUT

| Channel | Freq. (MHz) | Channel | Char | |
|---------|-------------|---------|------|--|
| 1 | 13.56 | 1 | | |



3.2.1 Test Mode Applicability and Tested Channel Deta

| EUT Configure | | Applic | able to | | Description | |
|---------------|-----------|--------|---------|----|-------------|--|
| Mode | RE | PLC | FS | EB | Description | |
| - | $\sqrt{}$ | √ | √ | √ | - | |

Where p

RE: Radiated Emission FS: Frequency Stability

PLC: Power Line Conducted Emission

EB: 20dB Bandwidth measurement

Note:

- The EUT had been pre-tested on Type A, Type B, Type F and Type V. The worst case was found when data rate was Type B, Type
 B was chosen for final test.
- 2. The EUT had been pre-tested on the positioned of NB mode and each 3 axis of Pad mode. The worst case was found when positioned on **NB mode**.

Radiated 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 | Modulation Type |
|--------------------|-------------------|----------------|-----------------|
| - | 1 | 1 | ASK |

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 | Modulation Type | |
|--------------------|-------------------|----------------|-----------------|--|
| - | 1 | 1 | ASK | |

Frequency Stability:

- 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 | Modulation Type | |
|--------------------|-------------------|----------------|-----------------|--|
| - | 1 | 1 | ASK | |

20dB Bandwidth:

- 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 | Modulation Type | |
|--------------------|-------------------|----------------|-----------------|--|
| - | 1 | 1 | ASK | |

Test Condition:

| Applicable to | Applicable to Environmental Conditions Input Policy RE 23 deg. C, 72% RH 120Vac, | | Tested by | |
|---------------|--|--------------|--------------|--|
| RE | | | Vincent Chen | |
| PLC | 22 deg. C, 71% RH | 120Vac, 60Hz | Thomas Cheng | |
| FS | FS 23 deg. C, 64% RH 120Vac, 60Hz | | Vincent Chen | |
| BW | 22 deg. C, 69% RH | 120Vac, 60Hz | Vincent Chen | |



3.3 Description of Support Units

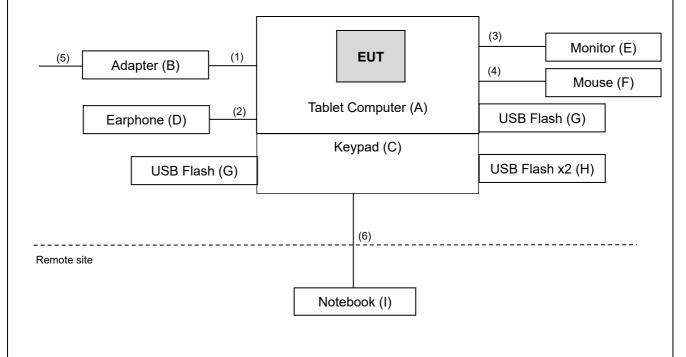
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| ID | Product | Brand | Model No. | Serial No. | FCC ID | Remarks |
|----|-----------------|-----------|----------------|------------------------------|--------|--------------------|
| A. | Tablet Computer | DELL | T06H | NA | NA | Provided by client |
| B. | Adapter | DELL | DA90PM210 | NA | NA | Accessory of EUT |
| C. | Keypad | DELL | T06HKYBP | NA | NA | Accessory of EUT |
| D. | Earphone | APPLE | MB770FE | NA | NA | - |
| E. | Monitor | DELL | A14S2421HSXmTW | CN-01KWFW-WSL0 0-24C-711B | NA | - |
| F. | Mouse | DELL | MS111-P | NA | NA | - |
| G. | USB Flash*2 | SanDisk | SDDDC3-032G | NA | NA | Type C |
| H. | USB Flash*2 | Transcend | 32GB | NA | NA | Type A |
| I. | Notebook | DELL | E5420 | NA | NA | - |

Note: All power cords of the above support units are non-shielded (1.8m).

| ID | Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks |
|----|----------------|------|------------|-----------------------|--------------|--------------------|
| 1. | DC Power cable | 1 | 1.8 | N | 0 | Provided by client |
| 2. | Audio cable | 1 | 1.2 | N | 0 | - |
| 3. | HDMI cable | 1 | 1.8 | Υ | 0 | - |
| 4. | USB cable | 1 | 1.8 | Υ | 0 | - |
| 5. | AC Power cable | 1 | 0.85 | N | 0 | Provided by client |
| 6. | LAN cable | 1 | 10 | N | 0 | - |

3.3.1 Configuration of System under Test





General Description of Applied Standards 3.4 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 (15.225) FCC Part 15, Subpart C (15.215)** 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 Measurement

4.1.1 Limits of Radiated Emission Measurement

The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

| Frequencies (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009 ~ 0.490 | 2400/F(kHz) | 300 |
| 0.490 ~ 1.705 | 24000/F(kHz) | 30 |
| 1.705 ~ 30.0 | 30 | 30 |
| 30 ~ 88 | 100 | 3 |
| 88 ~ 216 | 150 | 3 |
| 216 ~ 960 | 200 | 3 |
| Above 960 | 500 | 3 |

Note:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.



4.1.2 Test Instruments

| Description & Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Due |
|---|-----------------------|-------------------------------|---------------|---------------|
| Test Receiver Agilent | N9038A | MY51210203 | Sep. 22, 2021 | Sep. 21, 2022 |
| Spectrum Analyzer Agilent | N9010A | MY52220314 | Dec. 03, 2021 | Dec. 02, 2022 |
| Spectrum Analyzer ROHDE & SCHWARZ | FSU43 | 100115 | Jan. 27, 2022 | Jan. 26, 2023 |
| HORN Antenna SCHWARZBECK | BBHA 9120D | 9120D-969 | Nov. 24, 2021 | Nov. 23, 2022 |
| BILOG Antenna SCHWARZBECK | VULB 9168 | 9168-472 | Oct. 28, 2021 | Oct. 27, 2022 |
| Fixed Attenuator WOKEN | MDCS18N-10 | MDCS18N-10-01 | Apr. 05, 2022 | Apr. 04, 2023 |
| Loop Antenna | EM-6879 | 269 | Sep. 16, 2021 | Sep. 15, 2022 |
| Preamplifier EMCI | EMC001340 | 980201 | Sep. 15, 2021 | Sep. 14, 2022 |
| Preamplifier EMCI | EMC 012645 | 980115 | Oct. 05, 2021 | Oct. 04, 2022 |
| Preamplifier EMCI | EMC 330H | 980112 | Oct. 05, 2021 | Oct. 04, 2022 |
| RF Coaxial Cable EMCI | EMC104-SM-SM-8 000 | 171005 | Oct. 05, 2021 | Oct. 04, 2022 |
| RF Coaxial Cable HUBER+SUHNNER | SUCOFLEX 104 | EMC104-SM-SM-1000(1 40807) | Oct. 05, 2021 | Oct. 04, 2022 |
| RF Coaxial Cable WOKEN | 8D-FB | Cable-Ch10-01 | Oct. 05, 2021 | Oct. 04, 2022 |
| Boresight Antenna Fixture | FBA-01 | FBA-SIP01 | NA | NA |
| Software BV ADT | E3 6.120103 | NA | NA | NA |
| Antenna Tower MF | MFA-440H | NA | NA | NA |
| Turn Table MF | MFT-201SS | NA | NA | NA |
| Antenna Tower &Turn Table Controller MF | MF-7802 | 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 Chamber 10.



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, except for the frequency band (9kHz-90kHz, 110kHz-490kHz) set to average detect function and peak detect function.

Note:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200Hz at frequency band (9kHz-150kHz) and 9kHz at frequency below 30MHz (except 9kHz-150kHz).
- 2. There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 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.

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. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

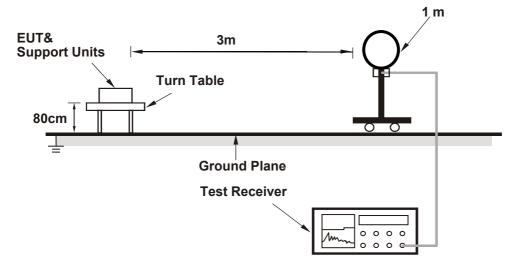
No deviation.



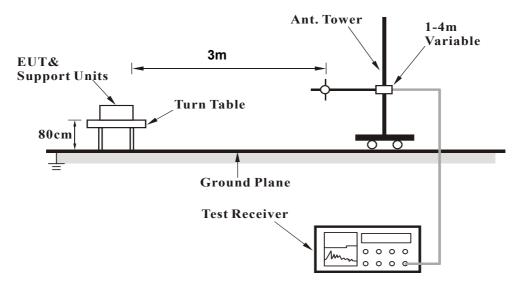
Report Format Version: 6.1.1

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).

KDB 414788 OFS and Chamber Correlation Justification

- Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
- Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

4.1.6 EUT Operating Conditions

a. Set the EUT under transmission condition continuously at specific channel frequency.



4.1.7 Test Results

Type B

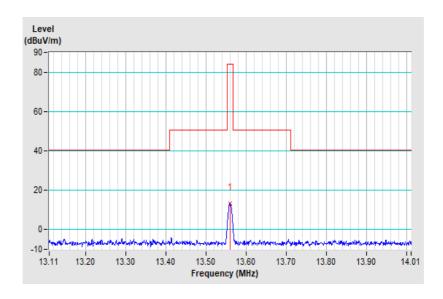
| EUT Test Condition | | Measurement Detail | | |
|--|--------------|-----------------------------------|--------------|--|
| Channel 1 | | Frequency Range 13.553 ~ 13.567MH | | |
| Input Power | 120Vac, 60Hz | Detector Function | Quasi-Peak | |
| Environmental Conditions 23 deg. C, 72% RH | | Tested By | Vincent Chen | |

| | Antenna Polarity & Test Distance: Loop Antenna Parallel At 3m | | | | | | | | |
|-----|---|--|-------------------|----------------|--------------------------|----------------------------|--------------------------------|--------------------------------|--|
| No. | Freq. (MHz) | Emission Level (dBuV/m) (30m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) (3m) | Correction Factor (dB/m) | |
| 1 | *13.56 | 13.40 QP | 84.00 | -70.60 | 1.00 | 332 | 31.40 | -18.00 | |

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)+Distance Factor
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency
- 6. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)



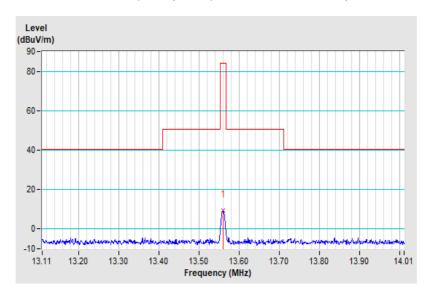


| EUT Test Condition | | Measurement Detail | | |
|--|--------------|----------------------------------|--------------|--|
| Channel 1 | | Frequency Range 13.553 ~ 13.567M | | |
| Input Power | 120Vac, 60Hz | Detector Function | Quasi-Peak | |
| Environmental Conditions 23 deg. C, 72% RH | | Tested By | Vincent Chen | |

| | Antenna Polarity & Test Distance: Loop Antenna Perpendicular At 3m | | | | | | | |
|-----|--|--|-------------------|----------------|--------------------------|----------------------------|--------------------------------|--------------------------------|
| No. | Freq. (MHz) | Emission Level (dBuV/m) (30m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) (3m) | Correction Factor (dB/m) |
| 1 | *13.56 | 9.60 QP | 84.00 | -74.40 | 1.00 | 280 | 27.60 | -18.00 |

- 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)+Distance Factor
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency
- 6. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)



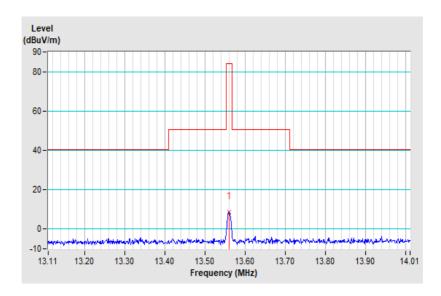


| EUT Test Condition | | Measurement Detail | | |
|---------------------------------|-------------------|-----------------------------------|--------------|--|
| Channel 1 | | Frequency Range 13.553 ~ 13.567MH | | |
| Input Power | 120Vac, 60Hz | Detector Function | Quasi-Peak | |
| Environmental Conditions | 23 deg. C, 72% RH | Tested By | Vincent Chen | |

| | Antenna Polarity & Test Distance: Loop Antenna Ground Parallel At 3m | | | | | | | | |
|-----|--|--|-------------------|----------------|--------------------------|----------------------------|--------------------------------|--------------------------------|--|
| No. | Freq. (MHz) | Emission Level (dBuV/m) (30m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) (3m) | Correction Factor (dB/m) | |
| 1 | *13.56 | 8.70 QP | 84.00 | -75.30 | 1.00 | 330 | 26.70 | -18.00 | |

- 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)+Distance Factor
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. " * ": Fundamental frequency
- 6. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

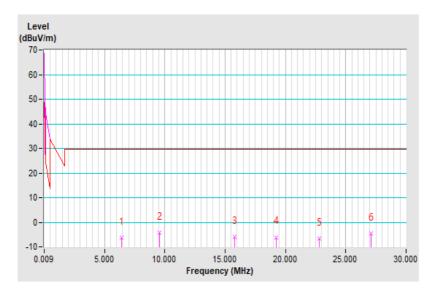




| EUT Test Condition | | Measurement Detail | | |
|---------------------------------|--------------------------|--------------------|--------------|--|
| Channel | Channel 1 | | Below 30mHz | |
| Input Power | Input Power 120Vac, 60Hz | | Quasi-Peak | |
| Environmental Conditions | 23 deg. C, 72% RH | Tested By | Vincent Chen | |

| | Antenna Polarity & Test Distance: Loop Antenna Parallel At 3m | | | | | | | | | |
|-----|---|--|-------------------|----------------|--------------------------|----------------------------|--------------------------------|--------------------------------|--|--|
| No. | Freq. (MHz) | Emission Level (dBuV/m) (30m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) (3m) | Correction Factor (dB/m) | | |
| 1 | 6.430 | -6.20 QP | 29.50 | -35.70 | 1.00 | 40 | 13.10 | -19.30 | | |
| 2 | 9.580 | -4.30 QP | 29.50 | -33.80 | 1.00 | 2 | 13.90 | -18.20 | | |
| 3 | 15.810 | -6.00 QP | 29.50 | -35.50 | 1.00 | 154 | 11.90 | -17.90 | | |
| 4 | 19.230 | -6.10 QP | 29.50 | -35.60 | 1.00 | 194 | 11.70 | -17.80 | | |
| 5 | 22.800 | -6.60 QP | 29.50 | -36.10 | 1.00 | 177 | 11.30 | -17.90 | | |
| 6 | 27.120 | -4.60 QP | 29.50 | -34.10 | 1.00 | 161 | 13.30 | -17.90 | | |

- 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) +Distance Factor
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

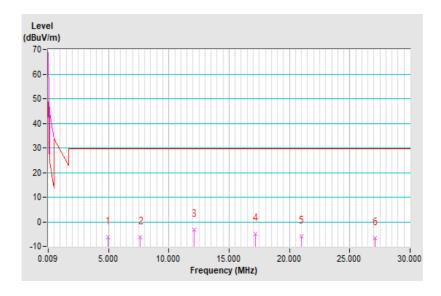




| EUT Test Condition | | Measurement Detail | | |
|--------------------------|--------------------------|--------------------|--------------|--|
| Channel | Channel 1 | | Below 30mHz | |
| Input Power | Input Power 120Vac, 60Hz | | Quasi-Peak | |
| Environmental Conditions | 23 deg. C, 67% RH | Tested By | Vincent Chen | |

| | Antenna Polarity & Test Distance: Loop Antenna Perpendicular At 3m | | | | | | | | | |
|-----|--|--|-------------------|----------------|--------------------------|----------------------------|--------------------------------|--------------------------------|--|--|
| No. | Freq. (MHz) | Emission Level (dBuV/m) (30m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) (3m) | Correction Factor (dB/m) | | |
| 1 | 4.990 | -6.30 QP | 29.50 | -35.80 | 1.00 | 192 | 13.50 | -19.80 | | |
| 2 | 7.660 | -6.30 QP | 29.50 | -35.80 | 1.00 | 245 | 12.60 | -18.90 | | |
| 3 | 12.100 | -3.10 QP | 29.50 | -32.60 | 1.00 | 352 | 14.90 | -18.00 | | |
| 4 | 17.160 | -4.80 QP | 29.50 | -34.30 | 1.00 | 312 | 13.10 | -17.90 | | |
| 5 | 21.000 | -5.80 QP | 29.50 | -35.30 | 1.00 | 328 | 12.00 | -17.80 | | |
| 6 | 27.120 | -6.50 QP | 29.50 | -36.00 | 1.00 | 16 | 11.40 | -17.90 | | |

- 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) +Distance Factor
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

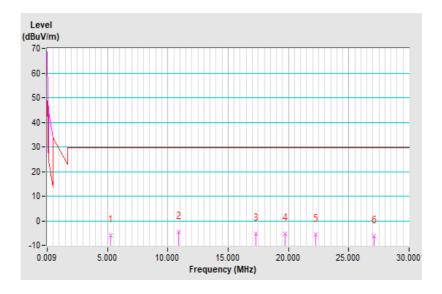




| EUT Test Condition | | Measurement Detail | | |
|---------------------------------|--------------------------|-----------------------------|--------------|--|
| Channel 1 | | Frequency Range Below 30mHz | | |
| Input Power | Input Power 120Vac, 60Hz | | Quasi-Peak | |
| Environmental Conditions | 23 deg. C, 67% RH | Tested By | Vincent Chen | |

| | Antenna Polarity & Test Distance: Loop Antenna Ground Paralle At 3m | | | | | | | | | |
|-----|---|--|-------------------|----------------|--------------------------|----------------------------|--------------------------------|--------------------------------|--|--|
| No. | Freq. (MHz) | Emission Level (dBuV/m) (30m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) (3m) | Correction Factor (dB/m) | | |
| 1 | 5.260 | -5.90 QP | 29.50 | -35.40 | 1.00 | 349 | 13.80 | -19.70 | | |
| 2 | 10.870 | -4.70 QP | 29.50 | -34.20 | 1.00 | 316 | 13.40 | -18.10 | | |
| 3 | 17.310 | -5.20 QP | 29.50 | -34.70 | 1.00 | 266 | 12.70 | -17.90 | | |
| 4 | 19.710 | -5.30 QP | 29.50 | -34.80 | 1.00 | 249 | 12.50 | -17.80 | | |
| 5 | 22.260 | -5.70 QP | 29.50 | -35.20 | 1.00 | 305 | 12.10 | -17.80 | | |
| 6 | 27.120 | -6.40 QP | 29.50 | -35.90 | 1.00 | 344 | 11.50 | -17.90 | | |

- 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) +Distance Factor
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission Level Limit value
- 5. The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

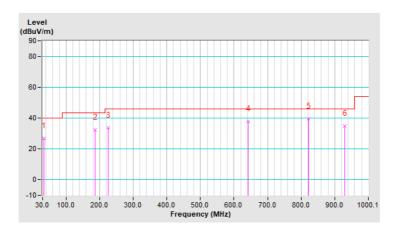




| EUT Test Condition | | Measurement Detail | | |
|--------------------------|-------------------|-------------------------------|--------------|--|
| Channel 1 | | Frequency Range Below 1000MHz | | |
| Input Power | 120Vac, 60Hz | Detector Function | Quasi-Peak | |
| Environmental Conditions | 23 deg. C, 67% RH | Tested By | Thomas Cheng | |

| | Antenna Polarity & Test Distance: Horizontal At 3m | | | | | | | | |
|-----|--|-------------------|-------------------|----------------|-------------------|----------------|--------------|----------------------|--|
| No. | No. Freq. (MHz) | Emission Level | Limit (dBuV/m) | Margin (dB) | Antenna Height | Table Angle | Raw Value | Correction Factor | |
| | | (dBuV/m) | 1) (abav/iii) (i | (dB) | (m) | (Degree) | (dBuV) | (dB/m) | |
| 1 | 34.85 | 26.7 QP | 40.0 | -13.3 | 2.36 H | 25 | 40.4 | -13.7 | |
| 2 | 186.19 | 32.4 QP | 43.5 | -11.1 | 1.57 H | 251 | 47.4 | -15.0 | |
| 3 | 224.99 | 33.5 QP | 46.0 | -12.5 | 3.67 H | 218 | 50.0 | -16.5 | |
| 4 | 643.10 | 38.0 QP | 46.0 | -8.0 | 2.22 H | 23 | 40.7 | -2.7 | |
| 5 | 822.57 | 39.4 QP | 46.0 | -6.6 | 1.55 H | 340 | 38.6 | 0.8 | |
| 6 | 930.25 | 35.1 QP | 46.0 | -10.9 | 2.25 H | 53 | 32.7 | 2.4 | |

- 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

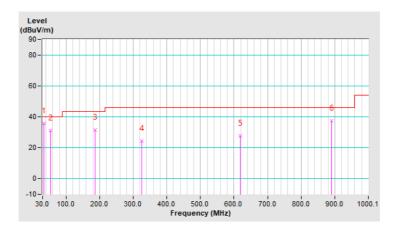




| EUT Test Condition | | Measurement Detail | | |
|--------------------------|-------------------|--------------------|---------------|--|
| Channel | Channel 1 | | Below 1000MHz | |
| Input Power | 120Vac, 60Hz | Detector Function | Quasi-Peak | |
| Environmental Conditions | 22 deg. C, 69% RH | Tested By | Thomas Cheng | |

| | 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 | 34.85 | 35.9 QP | 40.0 | -4.1 | 1.26 V | 3 | 49.6 | -13.7 | | |
| 2 | 54.25 | 31.3 QP | 40.0 | -8.7 | 2.37 V | 318 | 44.2 | -12.9 | | |
| 3 | 186.19 | 31.5 QP | 43.5 | -12.0 | 3.48 V | 285 | 46.5 | -15.0 | | |
| 4 | 325.88 | 24.3 QP | 46.0 | -21.7 | 1.56 V | 193 | 35.3 | -11.0 | | |
| 5 | 617.88 | 27.7 QP | 46.0 | -18.3 | 2.07 V | 12 | 30.8 | -3.1 | | |
| 6 | 891.45 | 37.6 QP | 46.0 | -8.4 | 1.03 V | 2 | 36.1 | 1.5 | | |

- 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

| Fraguency (MHz) | Conducted Limit (dBuV) | | | | | |
|-----------------|------------------------|---------|--|--|--|--|
| Frequency (MHz) | 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.

4.2.2 Test Instruments

| Description & Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Due |
|---|--------------------------|----------------|---------------|---------------|
| Test Receiver ROHDE & SCHWARZ | ESR3 | 102412 | Jan. 22, 2022 | Jan. 21, 2023 |
| RF signal cable (with 10dB PAD) Woken | 5D-FB | Cable-cond2-01 | Sep. 04, 2021 | Sep. 03, 2022 |
| LISN/AMN ROHDE & SCHWARZ (EUT) | ESH2-Z5 | 100100 | Feb. 17, 2022 | Feb. 16, 2023 |
| LISN/AMN ROHDE & SCHWARZ (Peripheral) | ENV216 | 101196 | May 24, 2022 | May 23, 2023 |
| 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 (Conduction 2).
- 3. The VCCI Site Registration No. is C-12047.
- 4. Teste date: Jul. 09, 2022

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



4.2.3 Test Procedures

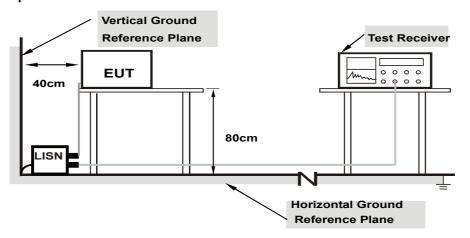
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. 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) was 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.



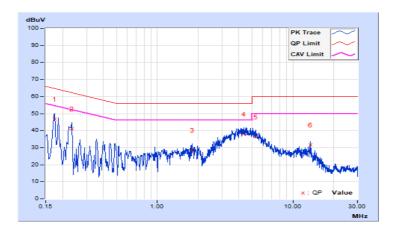
4.2.7 Test Results

Type B

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

| | From | Corr. | Readin | g Value | Emissio | n Level | Lir | nit | Mai | rgin |
|----|----------|--------|--------|---------|---------|---------|-------|-------|--------|--------|
| No | Freq. | Factor | [dB | (uV)] | [dB | (uV)] | [dB (| (uV)] | (d | B) |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.17400 | 10.13 | 36.72 | 19.57 | 46.85 | 29.70 | 64.77 | 54.77 | -17.92 | -25.07 |
| 2 | 0.23400 | 10.14 | 30.98 | 16.15 | 41.12 | 26.29 | 62.31 | 52.31 | -21.19 | -26.02 |
| 3 | 1.80600 | 10.21 | 18.49 | 5.82 | 28.70 | 16.03 | 56.00 | 46.00 | -27.30 | -29.97 |
| 4 | 4.33400 | 10.25 | 27.90 | 18.19 | 38.15 | 28.44 | 56.00 | 46.00 | -17.85 | -17.56 |
| 5 | 5.30600 | 10.26 | 26.22 | 16.73 | 36.48 | 26.99 | 60.00 | 50.00 | -23.52 | -23.01 |
| 6 | 13.55800 | 10.32 | 21.27 | 19.86 | 31.59 | 30.18 | 60.00 | 50.00 | -28.41 | -19.82 |

- 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.

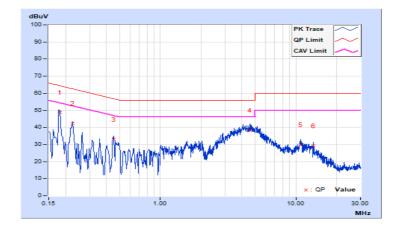




| Phase | Neutral (N) | Liberector Function | Quasi-Peak (QP) / Average (AV) |
|-------|-------------|---------------------|-----------------------------------|

| | Erog | Corr. | Readin | g Value | Emissio | n Level | Lir | nit | Ма | rgin |
|----|----------|--------|--------|---------|---------|---------|-------|-------|--------|--------|
| No | Freq. | Factor | [dB (| (uV)] | [dB (| (uV)] | [dB (| (uV)] | (d | B) |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.18200 | 10.15 | 38.57 | 24.60 | 48.72 | 34.75 | 64.39 | 54.39 | -15.67 | -19.64 |
| 2 | 0.22565 | 10.15 | 32.12 | 18.00 | 42.27 | 28.15 | 62.61 | 52.61 | -20.34 | -24.46 |
| 3 | 0.45400 | 10.17 | 22.98 | 15.68 | 33.15 | 25.85 | 56.80 | 46.80 | -23.65 | -20.95 |
| 4 | 4.55400 | 10.28 | 28.12 | 18.04 | 38.40 | 28.32 | 56.00 | 46.00 | -17.60 | -17.68 |
| 5 | 10.82200 | 10.36 | 19.60 | 7.48 | 29.96 | 17.84 | 60.00 | 50.00 | -30.04 | -32.16 |
| 6 | 13.55800 | 10.41 | 18.81 | 15.08 | 29.22 | 25.49 | 60.00 | 50.00 | -30.78 | -24.51 |

- 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.



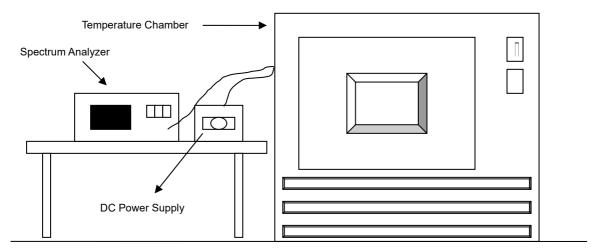


4.3 Frequency Stability

4.3.1 Limits of Frequency Stability Measurement

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of –20 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

4.3.2 Test Setup



4.3.3 Test Instruments

| Description & Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Due |
|---|-----------|------------|---------------|---------------|
| Spectrum Analyzer ROHDE & SCHWARZ | FSP40 | 100040 | Sep. 15, 2021 | Sep. 14, 2022 |
| WIT Standard Temperature And Humidity Chamber | TH-4S-C | W981030 | May 30, 2022 | May 29, 2023 |
| Digital Multimeter Fluke | 87-III | 70360755 | Jul. 08, 2021 | Jul. 07, 2022 |
| DC Power Supply Topward | 6306A | 727263 | 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. Test Date: Jul. 07, 2022

4.3.4 Test Procedure

- a. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
- b. Turned the EUT on and coupled its output to a spectrum analyzer.
- c. Turned the EUT off and set the chamber to the highest temperature specified.
- d. Allowed sufficient time (approximately 30 min) for the temperature of the chamber to stabilize then turned the EUT on and measured the operating frequency after 2, 5, and 10 minutes.
- e. Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed.
- f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.



4.3.5 Deviation fromTest Standard

No deviation.

4.3.6 EUT Operating Conditions

Same as Item 4.1.6.

4.3.7 Test Result

Type B

| | Frequency Stability Versus Temp. | | | | | | | | | |
|-------|----------------------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|--|
| | | 0 Mi | nute | 2 Mi | nute | 5 Mi | nute | 10 M | 10 Minute | |
| TEMP. | Power Supply (Vdc) | Measured Frequency | Frequency Drift | Measured Frequency | Frequency Drift | Measured Frequency | Frequency Drift | Measured Frequency | Frequency Drift | |
| | | (MHz) | % | (MHz) | % | (MHz) | % | (MHz) | % | |
| 50 | 7.6 | 13.56003 | 0.00022 | 13.56003 | 0.00022 | 13.56003 | 0.00022 | 13.56003 | 0.00022 | |
| 40 | 7.6 | 13.55993 | -0.00052 | 13.55994 | -0.00044 | 13.55994 | -0.00044 | 13.55993 | -0.00052 | |
| 30 | 7.6 | 13.56006 | 0.00044 | 13.56005 | 0.00037 | 13.56005 | 0.00037 | 13.56005 | 0.00037 | |
| 20 | 7.6 | 13.55995 | -0.00037 | 13.55994 | -0.00044 | 13.55995 | -0.00037 | 13.55995 | -0.00037 | |
| 10 | 7.6 | 13.55998 | -0.00015 | 13.55999 | -0.00007 | 13.55999 | -0.00007 | 13.55999 | -0.00007 | |
| 0 | 7.6 | 13.56006 | 0.00044 | 13.56005 | 0.00037 | 13.56007 | 0.00052 | 13.56006 | 0.00044 | |
| -10 | 7.6 | 13.56007 | 0.00052 | 13.56007 | 0.00052 | 13.56007 | 0.00052 | 13.56007 | 0.00052 | |
| -20 | 7.6 | 13.55997 | -0.00022 | 13.55998 | -0.00015 | 13.55998 | -0.00015 | 13.55998 | -0.00015 | |

| | Frequency Stability Versus Voltage | | | | | | | | | |
|---------------|------------------------------------|-----------------------|--------------------|-----------------------|----------|-----------------------|--------------------|-----------------------|--------------------|--|
| | | 0 Mi | nute | 2 Minute | | 5 Minute | | 10 Minute | | |
| TEMP. (°C) | Power Supply (Vdc) | Measured Frequency | Frequency Drift | Measured Frequency | - | Measured Frequency | Frequency Drift | Measured Frequency | Frequency Drift | |
| | | (MHz) | % | (MHz) | % | (MHz) | % | (MHz) | % | |
| | 8.74 | 13.55995 | -0.00037 | 13.55994 | -0.00044 | 13.55995 | -0.00037 | 13.55995 | -0.00037 | |
| 20 | 7.6 | 13.55995 | -0.00037 | 13.55994 | -0.00044 | 13.55995 | -0.00037 | 13.55995 | -0.00037 | |
| | 6.46 | 13.55995 | -0.00037 | 13.55994 | -0.00044 | 13.55995 | -0.00037 | 13.55995 | -0.00037 | |

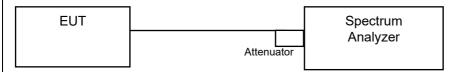


4.4 20dB Bandwidth

4.4.1 Limits of 20dB Bandwidth Measurement

The 20dB bandwidth shall be specified in operating frequency band.

4.4.2 Test Setup



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedures

The bandwidth of the fundamental frequency was measured by spectrum analyzer with 1kHz RBW and 3kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.4.5 Deviation from Test Standard

No deviation.

4.4.6 EUT Operating Conditions

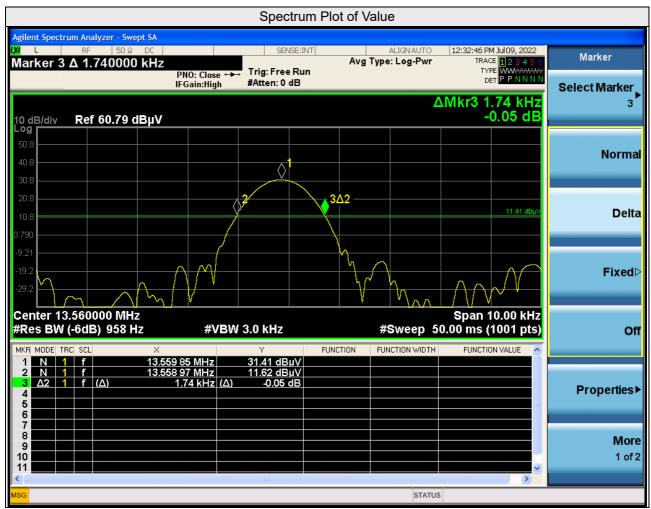
Same as Item 4.1.6.



4.4.7 Test Results

Type B

| 20dBc Bandwidth (kHz) | Operating frequency band (MHz) | Pass / Fail |
|-----------------------|--------------------------------|-------------|
| 1.74 | 13.553~13.567 | Pass |



Note: The signal look like CW signal, so RBW can't be match 1~5 % OBW.



| 5 Pictures of Test Arrangements Please refer to the attached file (Test Setup Photo). | |
|---|---|
| Please refer to the attached file (Test Setup Photo). | 5 Pictures of Test Arrangements |
| | Please refer to the attached file (Test Setup Photo). |
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Appendix - Information of 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:

Lin Kou EMC/RF Lab

Tel: 886-3-6668565 Fax: 886-3-6668323

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-2-26052180 Fax: 886-2-26051924

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232 Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com
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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