

FCC Test Report

Report No.: RFBBGM-WTW-P23070647-4

FCC ID: WIYS1P001

Test Model: S1P

Received Date: Jul. 26, 2023

Test Date: Aug. 15 ~ Aug. 18, 2023

Issued Date: Sep. 11, 2023

Applicant: CASTLES TECHNOLOGY CO., LTD.

Address: 6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT, NEW TAIPEI CITY 23143, TAIWAN (R. O. C.)

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 |
|------------------------|------------------|---------------|
| RFBGGM-WTW-P23070647-4 | Original Release | Sep. 11, 2023 |

1 Certificate of Conformity

Product: POS Terminal

Brand:  **CASTLES
TECHNOLOGY**

Test Model: S1P

Sample Status: Identical Prototype

Applicant: CASTLES TECHNOLOGY CO., LTD.

Test Date: Aug. 15 ~ Aug. 18, 2023

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.

Prepared by : Gina Liu, **Date:** Sep. 11, 2023
Gina Liu / Specialist

Approved by : Jeremy Lin, **Date:** Sep. 11, 2023
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 -7.54 dB at 0.40180 MHz. |
| 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 -37.6 dB at 13.56 MHz. |
| 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 -9.3 dB at 36.79 MHz. |
| 15.225 (e) | The frequency tolerance | Pass | Meet the requirement of limit. |
| 15.215 (c) | 20 dB Bandwidth | Pass | Meet the requirement of limit. |
| 15.203 | Antenna Requirement | Pass | No antenna connector is used. |

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 | 150 kHz ~ 30 MHz | 2.79 dB |
| Radiated Emissions up to 1 GHz | 9 kHz ~ 30 MHz | 3.04 dB |
| | 30 MHz ~ 200 MHz | 2.93 dB |
| | 200 MHz ~ 1000 MHz | 2.95 dB |

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

| | |
|---------------------------------|---|
| Product | POS Terminal |
| Brand |  |
| Test Model | S1P |
| Status of EUT | Identical Prototype |
| Power Supply Rating | Refer to note |
| Modulation Type | ASK |
| Data Rate | Type A: 106 kbit/s Type B: 106 kbit/s Type F: 212 kbit/s, 424 kbit/s |
| Operating Frequency | 13.56 MHz |
| Field Strength (Maximum) | 46.4 dBuV/m (30m) |
| Antenna Type | Refer to Note |
| Accessory Device | Refer to Note |
| Data Cable Supplied | Refer to Note |

Note:

- The EUT uses following accessories.

| AC Adapter | | |
|------------|----------------------|---|
| Brand | Model | Specification |
| ABP | ABP AD0181-1201000UC | AC Input : 100-240Vac, 50-60Hz, 0.5A Max DC Output : 12.0Vdc, 1.0A, 12.0W Plug : US Plug Manufacturer : SHENZHEN ABP TECHNOLOGY CO., LTD |

| 1 To 3 Cable | | |
|--------------|--------------|---------------|
| Brand | Model | Specification |
| CHANG YANG | cy-as-hk0109 | 2.02M |

- Simultaneously transmission condition.

| Condition | Technology | | |
|-----------|------------|-----------|-----|
| 1 | WWAN | WLAN | NFC |
| 2 | WWAN | Bluetooth | NFC |

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

- The antenna information for host is listed as below:

| Type | Connector | Gain (dBi) |
|------|-----------|------------|
| Loop | NA | - |

- 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.
- The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Description of Test Modes

One channel was provided to this EUT:

| Channel | Frequency (MHz) |
|---------|-----------------|
| 1 | 13.56 |

3.2.1 Test Mode Applicability and Tested Channel Detail

| EUT Configure Mode | Applicable To | | | | Description |
|--------------------|---------------|-----|----|----|-------------|
| | RE | PLC | FS | EB | |
| - | √ | √ | √ | √ | - |

Where **RE:** Radiated Emission **PLC:** Power Line Conducted Emission
FS: Frequency Stability **EB:** 20 dB Bandwidth measurement

NOTE: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**.

NOTE: "-" means no effect.

NOTE: The EUT had been pre-tested on Type A, Type B, Type F. The worst case was found when data rate was Type A and chosen for final test.

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 | Axis |
|--------------------|-------------------|----------------|-----------------|------|
| - | 1 | 1 | ASK | Z |

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 | Axis |
|--------------------|-------------------|----------------|-----------------|------|
| - | 1 | 1 | ASK | Z |

Frequency Stability:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- 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 | Axis |
|--------------------|-------------------|----------------|-----------------|------|
| - | 1 | 1 | ASK | Z |

20 dB Bandwidth:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- 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 | Axis |
|--------------------|-------------------|----------------|-----------------|------|
| - | 1 | 1 | ASK | Z |

Test Condition:

| Applicable To | Environmental Conditions | Input Power | Tested By |
|---------------|--------------------------|----------------|--------------|
| RE | 22 deg. C, 66 % RH | 120 Vac, 60 Hz | Vincent Chen |
| FS | 22 deg. C, 65 % RH | 120 Vac, 60 Hz | Vincent Chen |
| PLC | 25 deg. C, 75 % RH | 120 Vac, 60 Hz | Edison Lee |
| EB | 23 deg. C, 63 % RH | 120 Vac, 60 Hz | Vincent Chen |

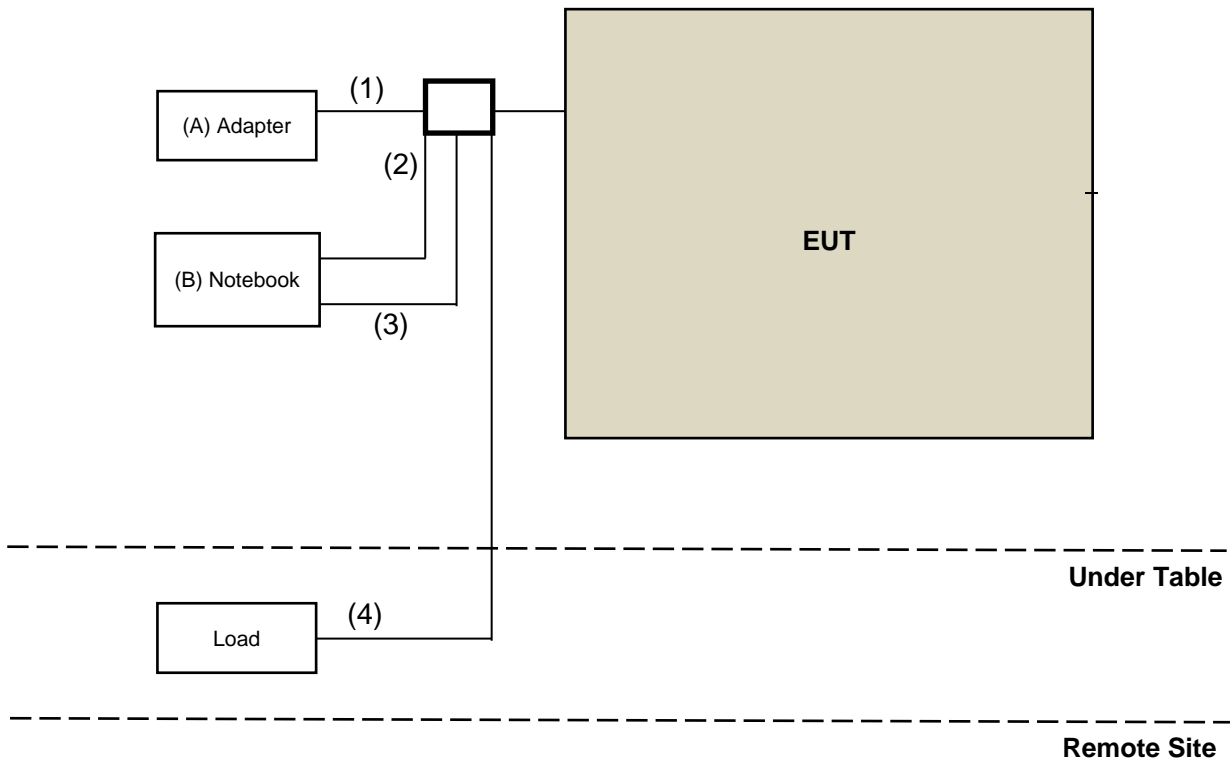
3.3 Description of Support Units

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 | Adapter | ABP | ABP AD0181-1201000UC | NA | NA | Supplied by applicant |
| B | Notebook | Lenono | TP00048A | NA | NA | Provided by Lab |

| ID | Cable Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks |
|----|--------------------|------|------------|--|--------------|-----------------------|
| 1 | 1 to 3 Cable | 1 | 2.02 | YES | 0 | Supplied by applicant |
| 2 | RS232 to USB | 1 | 1.2 | YES | 0 | Supplied by applicant |
| 3 | USB Cable | 1 | 1.8 | YES | 0 | Supplied by applicant |
| 4 | LAN Cable | 1 | 1.8 | YES </td <td>0</td> <td>Provided by Lab</td> | 0 | Provided by Lab |

3.3.1 Configuration of System under Test



3.4 General Description of Applied Standards and references

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

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.

References Test Guidance :

KDB 414788 D01 Radiated Test Site v01r01

All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

4.1 Radiated Emission Measurement

4.1.1 Limits of Radiated Emission Measurement

- a. The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- b. 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.
- c. 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.
- d. 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 as below table:

| 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 1000 MHz, 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 20 dB under any condition of modulation.

4.1.2 Test Instruments

| Description & Manufacturer | Model No. | Serial No. | Date of Calibration | Due Date of Calibration |
|-----------------------------------|------------------------------|---------------|---------------------|-------------------------|
| Software BV ADT | ADT_Radiated_ V7.6.15.9.5 | NA | NA | NA |
| Antenna Tower & Turn Max-Full | MFA-440H | AT93021705 | NA | NA |
| Turn Table Max-Full | MFT-201SS | NA | NA | NA |
| Turn Table Controller Max-Full | MG-7802 | NA | NA | NA |
| Test Receiver KEYSIGHT | N9038A | MY55420137 | May 03, 2023 | May 02, 2024 |
| Signal Analyzer Agilent | N9010A | MY52220207 | Jan. 03, 2023 | Jan. 02, 2024 |
| Loop Antenna TESEQ | HLA 6121 | 45745 | Aug. 08, 2023 | Aug. 07, 2024 |
| Loop Antenna EMCI | EM-6879 | 269 | Sep. 19, 2022 | Sep. 18, 2023 |
| Pre-amplifier EMCI | EMC001340 | 980201 | Sep. 23, 2022 | Sep. 22, 2023 |
| RF Coaxial Cable EMCI | 5D-NM-BM | 140903+140902 | Jan. 07, 2023 | Jan. 06, 2024 |
| Pre-Amplifier EMCI | EMC 330H | 980112 | Oct. 01, 2022 | Sep. 30, 2023 |
| Bi_Log Antenna Schwarzbeck | VULB9168 | 9168-472 | Oct. 21, 2022 | Oct. 20, 2023 |
| RF Coaxial Cable WOKEN | 8D-FB | Cable-Ch10-01 | Oct. 01, 2022 | Sep. 30, 2023 |

- 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 HY - 966 chamber 5.

4.1.3 Test Procedures

For Radiated Emission below 30 MHz

- 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, 110Hz-490kHz) set to average 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 30 MHz (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 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters 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:

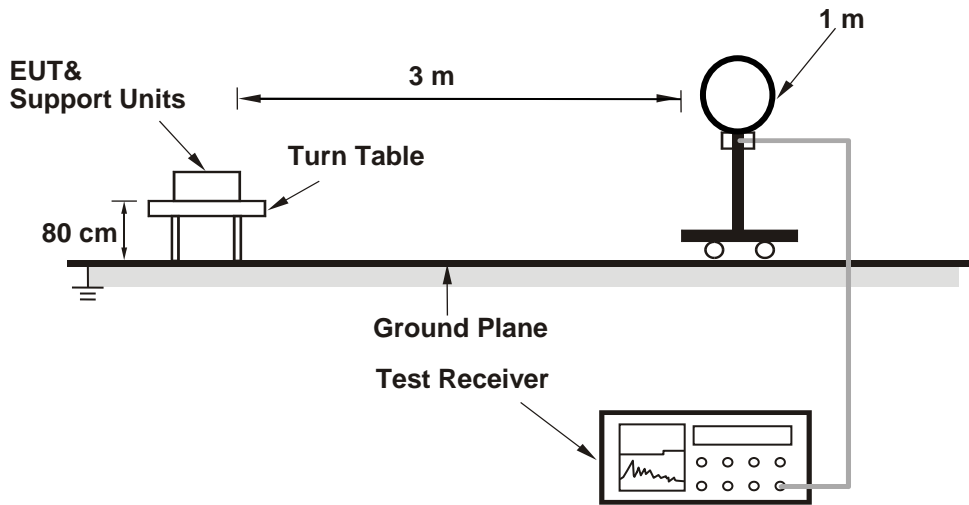
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

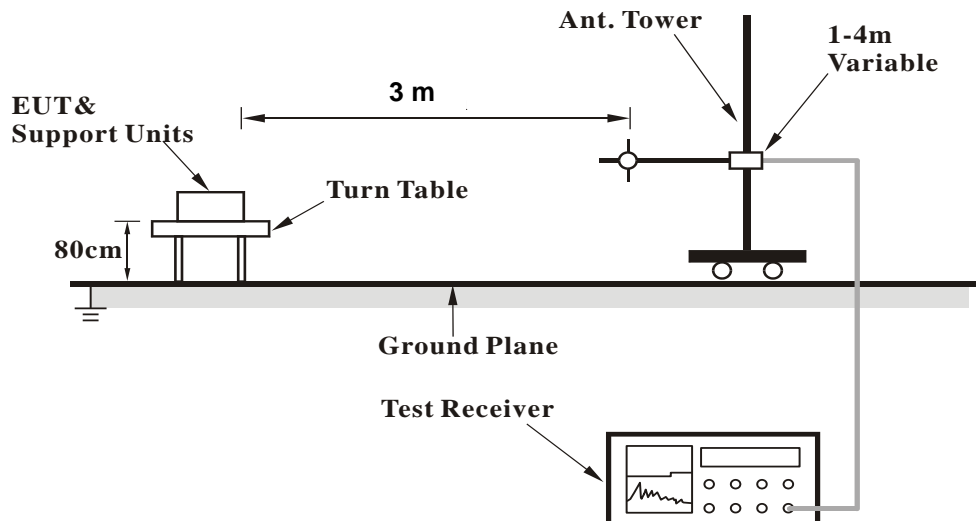
No deviation.

4.1.5 Test Set Up

<Radiated Emission below 30 MHz>



<Radiated Emission 30 MHz to 1 GHz>



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

KDB 414788 OFS and Chamber Correlation Justification

- Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.
- Parallel-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. Placed the EUT on the testing table.
- b. Set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

| | | | |
|------------------------|-----------------------|--|------------------------|
| RF Mode | NFC-13.56MHz | Channel | CH 1 : 13.56 MHz |
| Frequency Range | 13.11 MHz ~ 14.01 MHz | Detector Function & Bandwidth | Quasi-Peak (QP), 9 kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 22°C, 66% RH |
| Test Date | Vincent Chen | | |

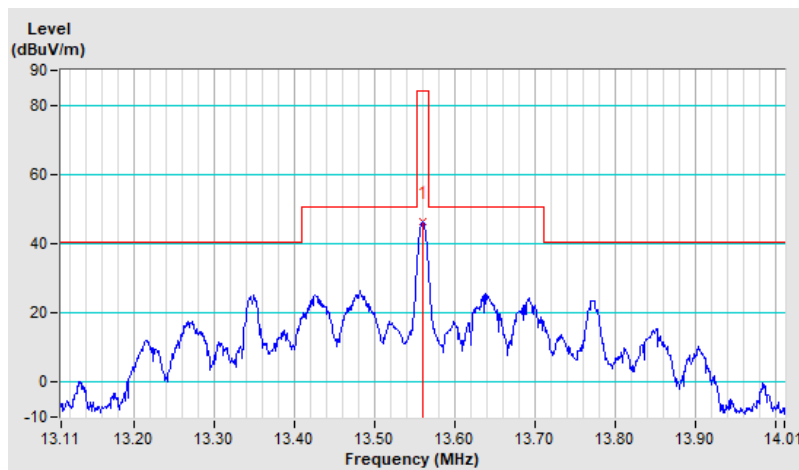
Antenna Polarity : Parallel

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *13.56 | 46.4 QP | 84.0 | -37.6 | 1.00 | 2 | 65.0 | -18.6 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
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)



| | | | |
|------------------------|-----------------------|--|------------------------|
| RF Mode | NFC-13.56MHz | Channel | CH 1 : 13.56 MHz |
| Frequency Range | 13.11 MHz ~ 14.01 MHz | Detector Function & Bandwidth | Quasi-Peak (QP), 9 kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 22°C, 66% RH |
| Test Date | Vincent Chen | | |

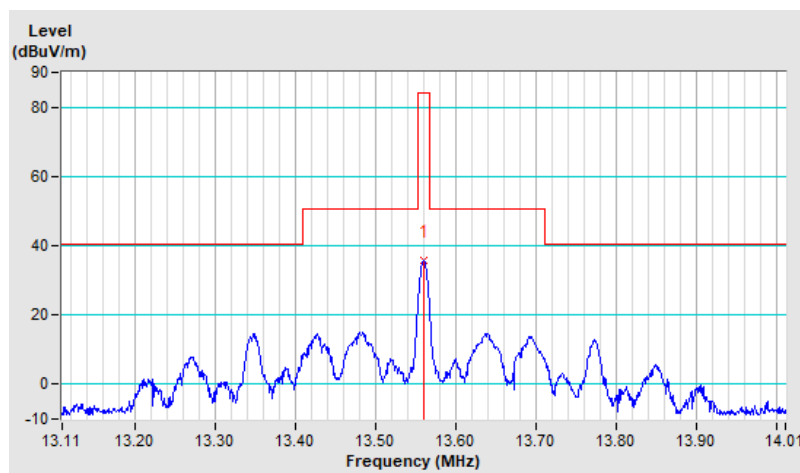
Antenna Polarity : Perpendicular

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *13.56 | 35.8 QP | 84.0 | -48.2 | 1.00 | 269 | 54.4 | -18.6 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
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)



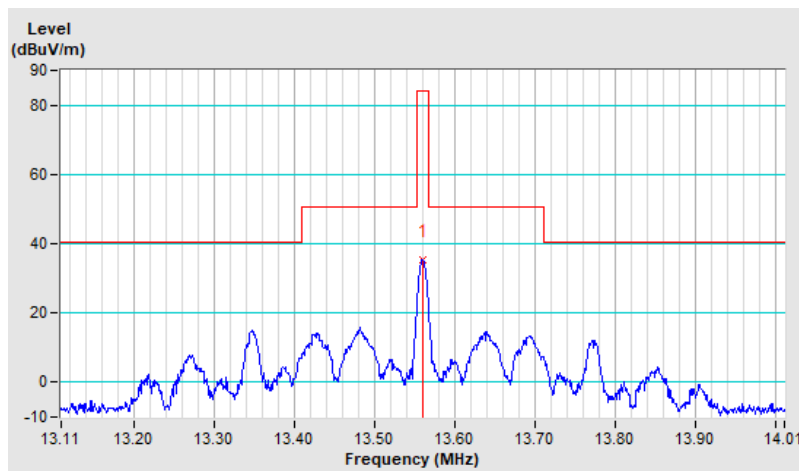
| | | | |
|------------------------|-----------------------|--|------------------------|
| RF Mode | NFC-13.56MHz | Channel | CH 1 : 13.56 MHz |
| Frequency Range | 13.11 MHz ~ 14.01 MHz | Detector Function & Bandwidth | Quasi-Peak (QP), 9 kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 22°C, 66% RH |
| Test Date | Vincent Chen | | |

| Antenna Polarity : Ground-parallel | | | | | | | | |
|------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *13.56 | 35.5 QP | 84.0 | -48.5 | 1.00 | 2 | 54.1 | -18.6 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
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)



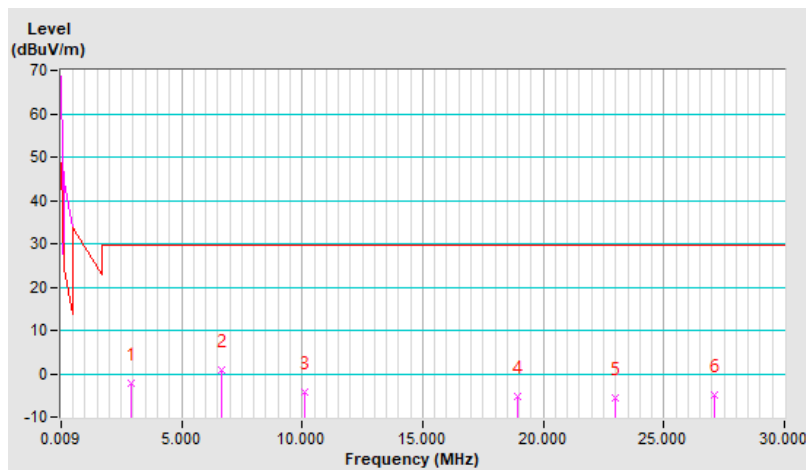
Below 30MHz

| | | | |
|------------------------|----------------|--|------------------------|
| RF Mode | NFC-13.56MHz | Channel | CH 1 : 13.56 MHz |
| Frequency Range | 9 kHz ~ 30 MHz | Detector Function & Bandwidth | Quasi-Peak (QP), 9 kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 22°C, 66% RH |
| Test Date | Vincent Chen | | |

| Antenna Polarity : Parallel | | | | | | | | |
|-----------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 2.92 | -2.3 QP | 29.5 | -31.8 | 1.00 | 63 | 18.2 | -20.5 |
| 2 | 6.64 | 0.9 QP | 29.5 | -28.6 | 1.00 | 311 | 19.7 | -18.8 |
| 3 | 10.12 | -4.2 QP | 29.5 | -33.7 | 1.00 | 98 | 14.4 | -18.6 |
| 4 | 18.96 | -5.3 QP | 29.5 | -34.8 | 1.00 | 52 | 12.5 | -17.8 |
| 5 | 22.98 | -5.6 QP | 29.5 | -35.1 | 1.00 | 153 | 13.0 | -18.6 |
| 6 | 27.12 | -4.8 QP | 29.5 | -34.3 | 1.00 | 193 | 13.0 | -17.8 |

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) + Distance Factor
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
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)



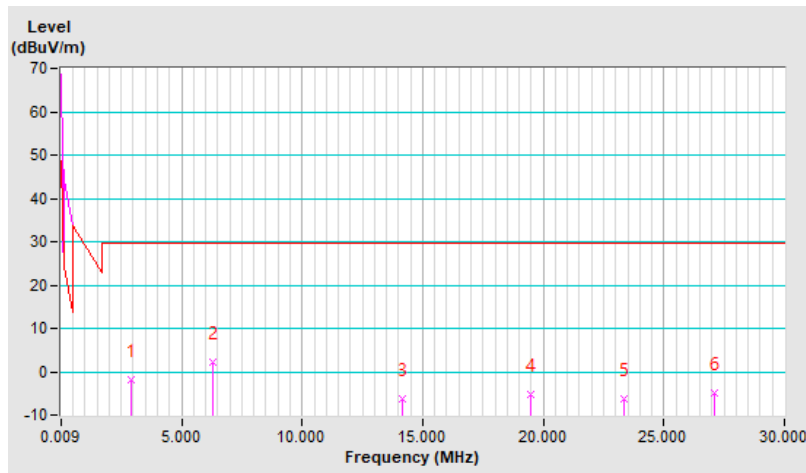
| | | | |
|------------------------|----------------|--|------------------------|
| RF Mode | NFC-13.56MHz | Channel | CH 1 : 13.56 MHz |
| Frequency Range | 9 kHz ~ 30 MHz | Detector Function & Bandwidth | Quasi-Peak (QP), 9 kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 22°C, 66% RH |
| Test Date | Vincent Chen | | |

Antenna Polarity : Perpendicular

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 2.92 | -2.0 QP | 29.5 | -31.5 | 1.00 | 148 | 18.5 | -20.5 |
| 2 | 6.28 | 2.1 QP | 29.5 | -27.4 | 1.00 | 2 | 20.9 | -18.8 |
| 3 | 14.16 | -6.3 QP | 29.5 | -35.8 | 1.00 | 155 | 12.4 | -18.7 |
| 4 | 19.47 | -5.2 QP | 29.5 | -34.7 | 1.00 | 13 | 12.6 | -17.8 |
| 5 | 23.37 | -6.2 QP | 29.5 | -35.7 | 1.00 | 269 | 12.3 | -18.5 |
| 6 | 27.12 | -5.0 QP | 29.5 | -34.5 | 1.00 | 208 | 12.8 | -17.8 |

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) + Distance Factor
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
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)



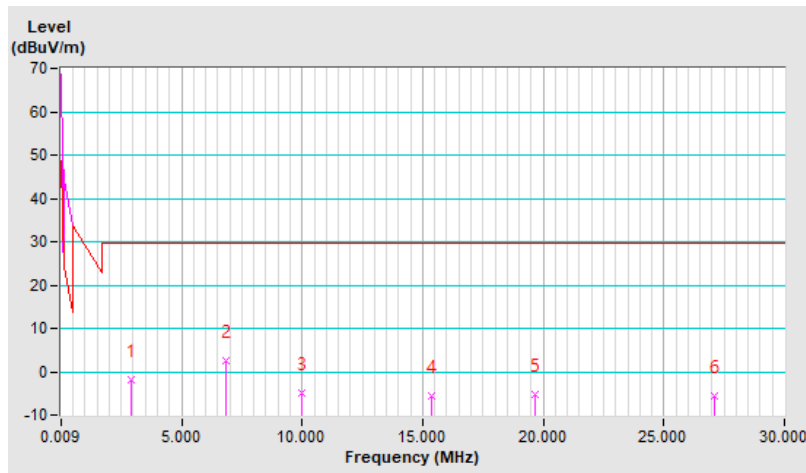
| | | | |
|------------------------|----------------|--|------------------------|
| RF Mode | NFC-13.56MHz | Channel | CH 1 : 13.56 MHz |
| Frequency Range | 9 kHz ~ 30 MHz | Detector Function & Bandwidth | Quasi-Peak (QP), 9 kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 22°C, 66% RH |
| Test Date | Vincent Chen | | |

Antenna Polarity : Ground-parallel

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 2.89 | -2.0 QP | 29.5 | -31.5 | 1.00 | 61 | 18.5 | -20.5 |
| 2 | 6.82 | 2.5 QP | 29.5 | -27.0 | 1.00 | 310 | 21.3 | -18.8 |
| 3 | 10.00 | -4.8 QP | 29.5 | -34.3 | 1.00 | 14 | 13.8 | -18.6 |
| 4 | 15.36 | -5.6 QP | 29.5 | -35.1 | 1.00 | 284 | 12.9 | -18.5 |
| 5 | 19.68 | -5.3 QP | 29.5 | -34.8 | 1.00 | 155 | 12.6 | -17.9 |
| 6 | 27.12 | -5.6 QP | 29.5 | -35.1 | 1.00 | 66 | 12.2 | -17.8 |

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) + Distance Factor
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
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)



Above 30MHz

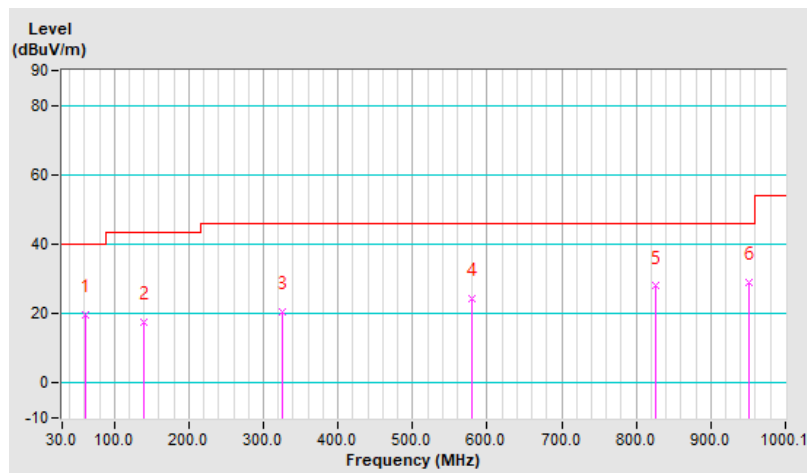
| | | | |
|------------------------|----------------|--|------------------------------|
| RF Mode | NFC-13.56MHz | Channel | CH 1 : 13.56 MHz |
| Frequency Range | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | Quasi-Peak (QP), RB = 120kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 22°C, 66% RH |
| Tested By | Vincent Chen | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 61.04 | 19.7 QP | 40.0 | -20.3 | 1.50 H | 18 | 32.9 | -13.2 |
| 2 | 138.65 | 17.4 QP | 43.5 | -26.1 | 1.00 H | 173 | 30.3 | -12.9 |
| 3 | 324.91 | 20.3 QP | 46.0 | -25.7 | 2.00 H | 18 | 31.4 | -11.1 |
| 4 | 580.05 | 24.5 QP | 46.0 | -21.5 | 1.00 H | 279 | 30.3 | -5.8 |
| 5 | 826.45 | 27.9 QP | 46.0 | -18.1 | 1.00 H | 34 | 29.5 | -1.6 |
| 6 | 951.60 | 28.9 QP | 46.0 | -17.1 | 2.00 H | 2 | 29.3 | -0.4 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.

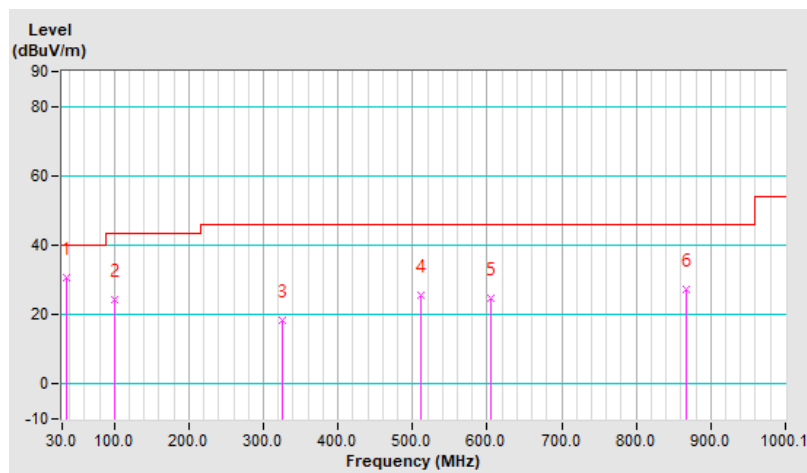


| | | | |
|------------------------|----------------|--|------------------------------|
| RF Mode | NFC-13.56MHz | Channel | CH 1 : 13.56 MHz |
| Frequency Range | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | Quasi-Peak (QP), RB = 120kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 22°C, 66% RH |
| Tested By | Vincent Chen | | |

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 36.79 | 30.7 QP | 40.0 | -9.3 | 1.50 V | 326 | 43.3 | -12.6 |
| 2 | 99.85 | 24.5 QP | 43.5 | -19.0 | 1.00 V | 126 | 41.3 | -16.8 |
| 3 | 325.88 | 18.6 QP | 46.0 | -27.4 | 2.00 V | 5 | 29.7 | -11.1 |
| 4 | 510.20 | 25.6 QP | 46.0 | -20.4 | 1.00 V | 104 | 32.2 | -6.6 |
| 5 | 604.30 | 24.7 QP | 46.0 | -21.3 | 1.50 V | 18 | 30.0 | -5.3 |
| 6 | 866.23 | 27.5 QP | 46.0 | -18.5 | 2.00 V | 69 | 29.0 | -1.5 |

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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.



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 0.50 MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.2.2 Test Instruments

| Description & Manufacturer | Model No. | Serial No. | Date of Calibration | Due Date of Calibration |
|----------------------------|-------------------------|----------------|---------------------|-------------------------|
| LISN R&S | ESH3-Z5 | 100311 | Sep. 12, 2022 | Sep. 11, 2023 |
| LISN ROHDE & SCHWARZ | ENV216 | 101826 | Mar. 23, 2023 | Mar. 22, 2024 |
| Receiver R&S | ESCI | 100412 | Aug. 22, 2022 | Aug. 21, 2023 |
| RF Coaxial Cable WOKEN | 5D-FB | Cable-cond1-01 | Jan. 07, 2023 | Jan. 06, 2024 |
| Software BVADT | BVADT_Cond_ V7.3.7.4 | N/A | N/A | N/A |
| V-LISN Schwarzbeck | NNBL 8226-2 | 8226-142 | Aug. 31, 2022 | Aug. 30, 2023 |

- 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 HY - Conduction 1.
 3. Test date: Aug. 18, 2023

4.2.3 Test Procedures

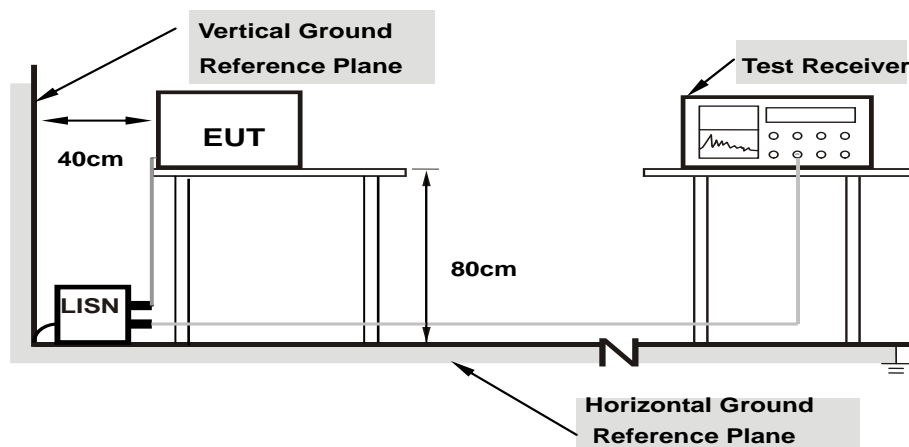
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance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

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

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



- Note:**
- Support units were connected to second LISN.
 - Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

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

4.2.6 EUT Operating Conditions

- Placed the EUT on the testing table.
- Set the EUT under transmission condition continuously at specific channel frequency.

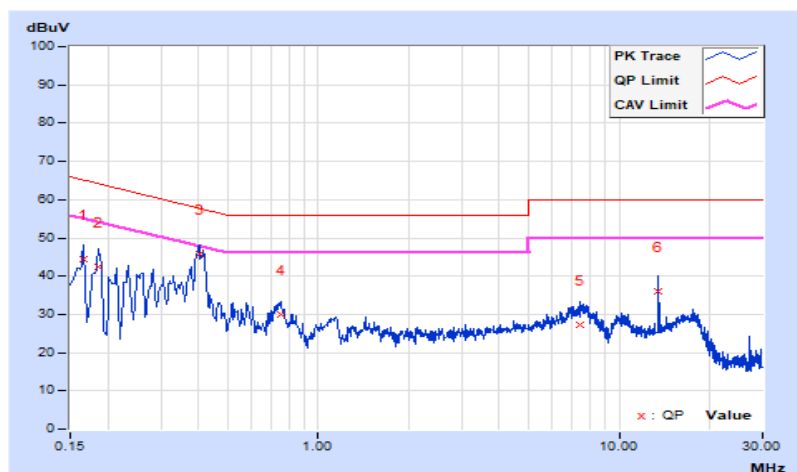
4.2.7 Test Results

| | | | |
|------------------------|------------------|---|--------------------------------------|
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 75% RH |
| Tested by | Edison Lee | | |

| Phase Of Power : Line (L) | | | | | | | | | | |
|---------------------------|-----------------|------------------------|----------------------|--------------|-----------------------|--------------|--------------|--------------|---------------|--------------|
| No | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) | | Emission Level (dBuV) | | Limit (dBuV) | | Margin (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.16600 | 9.63 | 34.70 | 20.33 | 44.33 | 29.96 | 65.16 | 55.16 | -20.83 | -25.20 |
| 2 | 0.18600 | 9.63 | 32.82 | 20.42 | 42.45 | 30.05 | 64.21 | 54.21 | -21.76 | -24.16 |
| 3 | 0.40180 | 9.67 | 36.23 | 30.61 | 45.90 | 40.28 | 57.82 | 47.82 | -11.92 | -7.54 |
| 4 | 0.75000 | 9.68 | 20.15 | 15.41 | 29.83 | 25.09 | 56.00 | 46.00 | -26.17 | -20.91 |
| 5 | 7.45800 | 9.77 | 17.41 | 10.71 | 27.18 | 20.48 | 60.00 | 50.00 | -32.82 | -29.52 |
| 6 | 13.55800 | 9.79 | 26.20 | 20.11 | 35.99 | 29.90 | 60.00 | 50.00 | -24.01 | -20.10 |

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

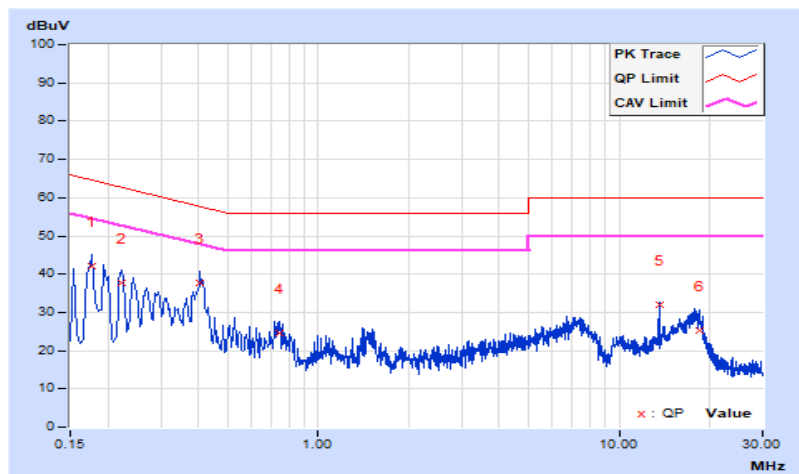


| | | | |
|------------------------|------------------|---|--------------------------------------|
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 75% RH |
| Tested by | Edison Lee | | |

| Phase Of Power : Neutral (N) | | | | | | | | | | |
|------------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) | | Emission Level (dBuV) | | Limit (dBuV) | | Margin (dB) | |
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.17800 | 9.63 | 32.43 | 18.72 | 42.06 | 28.35 | 64.58 | 54.58 | -22.52 | -26.23 |
| 2 | 0.22200 | 9.64 | 28.05 | 19.13 | 37.69 | 28.77 | 62.74 | 52.74 | -25.05 | -23.97 |
| 3 | 0.40600 | 9.67 | 28.09 | 22.10 | 37.76 | 31.77 | 57.73 | 47.73 | -19.97 | -15.96 |
| 4 | 0.74200 | 9.69 | 14.97 | 9.14 | 24.66 | 18.83 | 56.00 | 46.00 | -31.34 | -27.17 |
| 5 | 13.56200 | 9.84 | 22.04 | 21.75 | 31.88 | 31.59 | 60.00 | 50.00 | -28.12 | -18.41 |
| 6 | 18.52600 | 9.87 | 15.30 | 5.40 | 25.17 | 15.27 | 60.00 | 50.00 | -34.83 | -34.73 |

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

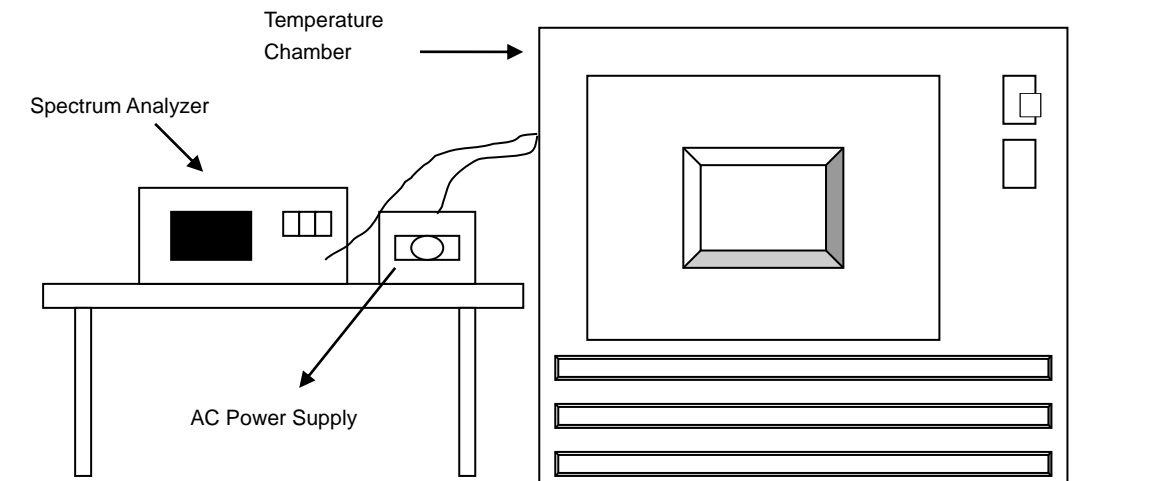


4.3 Frequency Stability

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 R&S | FSV40 | 100980 | May 03, 2023 | May 02, 2024 |
| Temperature & Humidity Chamber TERCHY | HRM-120RF | 931022 | Dec. 27, 2022 | Dec. 26, 2023 |
| Digital Multimeter Fluke | 87-III | 70360742 | Jul. 06, 2023 | Jul. 05, 2024 |
| AC Power Source ExTech | CFW-105 | E000603 | N/A | N/A |

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

4.3.4 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- Turned the EUT on and coupled its output to a spectrum analyzer.
- Turned the EUT off and set the chamber to the highest temperature specified.
- 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.
- Repeated step c and d with the every 10 degrees reduction until the lowest temperature achieved.
- 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 from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

- a. Placed the EUT on the testing table.
- b. Set the EUT under transmission condition continuously at specific channel frequency.

4.3.7 Test Results

| Frequency Stability Versus Temperature | | | | | | | | | |
|--|--------------------|--------------------|-----------------|--------------------|-----------------|--------------------|-----------------|--------------------|-----------------|
| Temp. (°C) | Power Supply (Vac) | 0 Minute | | 2 Minute | | 5 Minute | | 10 Minute | |
| | | Measured Frequency | Frequency Drift | Measured Frequency | Frequency Drift | Measured Frequency | Frequency Drift | Measured Frequency | Frequency Drift |
| | | (MHz) | % | (MHz) | % | (MHz) | % | (MHz) | % |
| 50 | 120 | 13.55999 | -0.00007 | 13.55999 | -0.00007 | 13.55998 | -0.00015 | 13.56 | 0.00000 |
| 40 | 120 | 13.55997 | -0.00022 | 13.55997 | -0.00022 | 13.55997 | -0.00022 | 13.55998 | -0.00015 |
| 30 | 120 | 13.55998 | -0.00015 | 13.55998 | -0.00015 | 13.55999 | -0.00007 | 13.55998 | -0.00015 |
| 20 | 120 | 13.55995 | -0.00037 | 13.55994 | -0.00044 | 13.55994 | -0.00044 | 13.55993 | -0.00052 |
| 10 | 120 | 13.55999 | -0.00007 | 13.55999 | -0.00007 | 13.55999 | -0.00007 | 13.55999 | -0.00007 |
| 0 | 120 | 13.55997 | -0.00022 | 13.55998 | -0.00015 | 13.55998 | -0.00015 | 13.55998 | -0.00015 |
| -10 | 120 | 13.56005 | 0.00037 | 13.56006 | 0.00044 | 13.56005 | 0.00037 | 13.56006 | 0.00044 |
| -20 | 120 | 13.56002 | 0.00015 | 13.56001 | 0.00007 | 13.56001 | 0.00007 | 13.56001 | 0.00007 |

| Frequency Stability Versus Voltage | | | | | | | | | |
|------------------------------------|--------------------|--------------------|-----------------|--------------------|-----------------|--------------------|-----------------|--------------------|-----------------|
| Temp. (°C) | Power Supply (Vac) | 0 Minute | | 2 Minute | | 5 Minute | | 10 Minute | |
| | | Measured Frequency | Frequency Drift | Measured Frequency | Frequency Drift | Measured Frequency | Frequency Drift | Measured Frequency | Frequency Drift |
| | | (MHz) | % | (MHz) | % | (MHz) | % | (MHz) | % |
| 20 | 138 | 13.55995 | -0.00037 | 13.55994 | -0.00044 | 13.55994 | -0.00044 | 13.55993 | -0.00052 |
| | 120 | 13.55995 | -0.00037 | 13.55994 | -0.00044 | 13.55994 | -0.00044 | 13.55993 | -0.00052 |
| | 102 | 13.55995 | -0.00037 | 13.55994 | -0.00044 | 13.55994 | -0.00044 | 13.55993 | -0.00052 |

4.4 20 dB Bandwidth

4.4.1 Limits of 20 dB Bandwidth Measurement

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

4.4.2 Test Setup

Refer to section 4.1.5.

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 958 Hz RBW and 3 kHz VBW. The 20 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20 dB.

4.4.5 Deviation from Test Standard

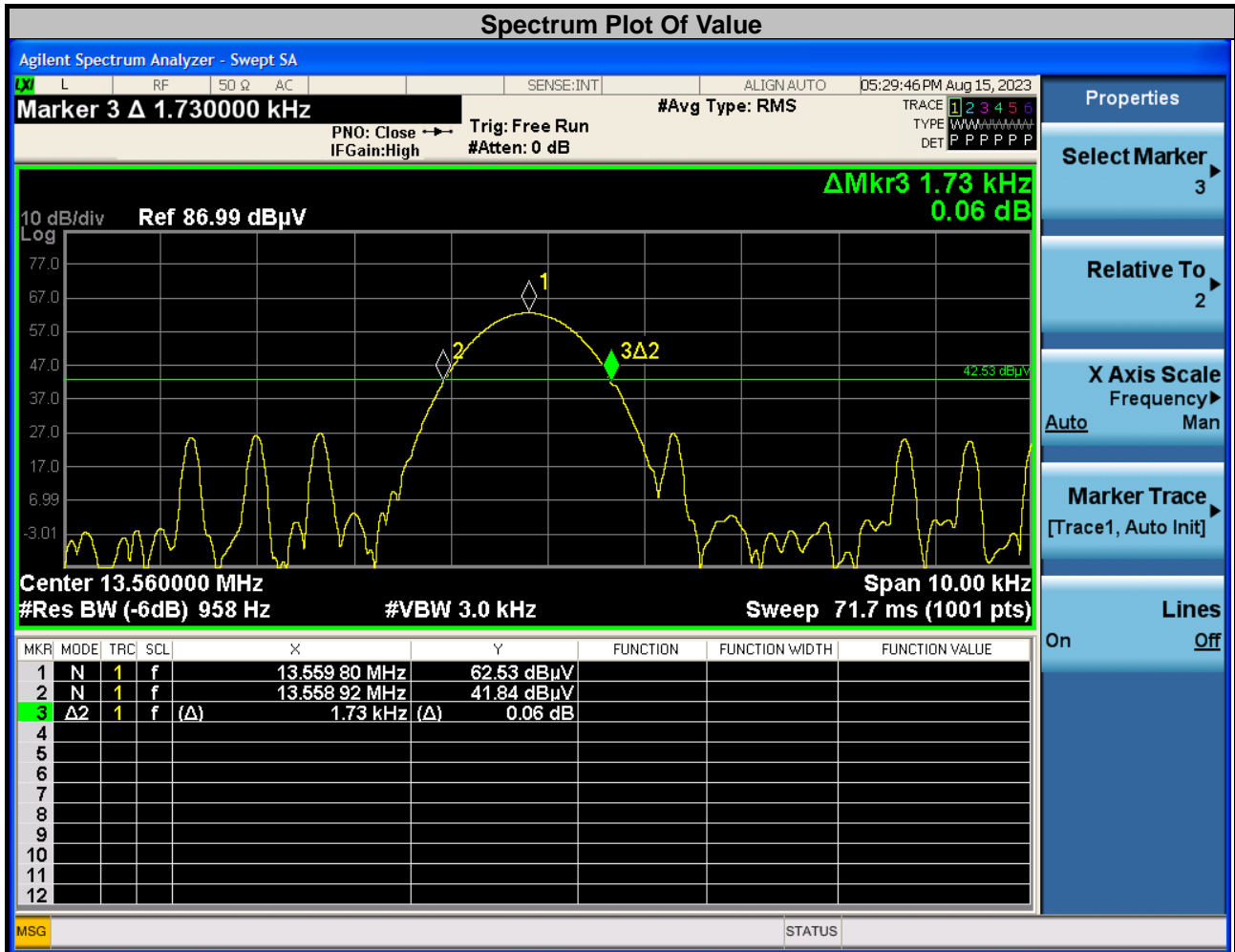
No deviation.

4.4.6 EUT Operating Conditions

- a. Placed the EUT on the testing table.
- b. Set the EUT under transmission condition continuously at specific channel frequency.

4.4.7 Test Results

| 20 dBc Point (Low) | 20 dBc Point (High) | Operating Frequency Band (MHz) | Pass / Fail |
|--------------------|---------------------|--------------------------------|-------------|
| 13.55892 MHz | 13.56065 MHz | 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).

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 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: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: <http://ee.bureauveritas.com.tw>

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

--- END ---