

## Partial FCC Test Report (Spot Check)

**Report No.:** RFBCUG-WTW-P22010682C-3

**FCC ID:** B32UX700W

**Test Model:** UX700-ML-1

**Received Date:** Jan. 12, 2023

**Test Date:** Jan. 31 ~ Feb. 06, 2023

**Issued Date:** Feb. 15, 2023

**Applicant:** Verifone, Inc.

**Address:** 1400 West Stanford Ranch Road Suite 150 Rocklin CA 95765 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 (1):** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City  
33383, TAIWAN

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

**Test Location (2):** No. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

**FCC Registration /  
Designation Number:** 281270 / TW0032



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### Release Control Record

| Issue No.               | Description      | Date Issued   |
|-------------------------|------------------|---------------|
| RFBCUG-WTW-P22010682C-3 | Original release | Feb. 15, 2023 |

## 1 Certificate of Conformity

**Product:** Point of Sale Terminal

**Brand:** Verifone

**Test Model:** UX700-ML-1

**Sample Status:** Engineering sample

**Applicant:** Verifone, Inc.

**Test Date:** Jan. 31 ~ Feb. 06, 2023

**Standards:** 47 CFR FCC Part 15, Subpart C (Section 15.247)  
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 :** Celine Chou , **Date:** Feb. 15, 2023  
Celine Chou / Senior Specialist

**Approved by :** Jeremy Lin , **Date:** Feb. 15, 2023  
Jeremy Lin / Project Engineer

## 2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart C (Section 15.247) |   |        |  |
|--|---|--------|--|
| FCC Clause                                     | Test Item   | Result | Remarks  |
| 15.207   | AC Power Conducted Emission   | Pass   | Meet the requirement of limit. Minimum passing margin is -11.62dB at 0.39550MHz. |
| 15.247(a)(1)(iii)                              | Number of Hopping Frequency Used  | Pass   | Refer to note 1  |
| 15.247(a)(1)(iii)                              | Dwell Time on Each Channel  | Pass   | Refer to note 1  |
| 15.247(a)(1)                                   | 1. Hopping Channel Separation<br>2. Spectrum Bandwidth of a Frequency Hopping Sequence Spread Spectrum System | Pass   | Refer to note 1  |
| 15.247(a)(1)                                   | Maximum Peak Output Power   | Pass   | Meet the requirement of limit.   |
| 15.205 & 209 & 15.247(d)                       | Radiated Emissions & Band Edge Measurement  | Pass   | Meet the requirement of limit. Minimum passing margin is -6.1dB at 30.00MHz.     |
| 15.247(d)                                      | Antenna Port Emission   | Pass   | Refer to note 1  |
| 15.203   | Antenna Requirement   | Pass   | Antenna connector is ipex(MHF) not a standard connector.                         |

### Note:

1. This report is a partial report. Therefore, only AC Power Conducted Emission, Output Power and Radiated Emissions were verified and recorded in this report. Other testing data please refer to the original BV CPS report no.: RFBCUG-WTW-P22010682-4.
2. For 2.4G band compliance with rule 15.247(d) of the band-edge items, the test plots were recorded in Annex A. Test Procedures refer to report 4.1.3.
3. If The Frequency Hopping System operating in 2400-2483.5MHz band and the output power less than 125mW. The hopping channel carrier frequencies separated by a minimum of 25kHz or two-thirds of the 20dB bandwidth of hopping channel whichever is greater.
4. 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) ( $\pm$ ) |
|------------------------------------|------------------|--------------------------------------|
| Conducted Emissions at mains ports | 150kHz ~ 30MHz   | 2.79 dB                              |
| Radiated Emissions up to 1 GHz     | 9kHz ~ 30MHz     | 3.00 dB                              |
|                                    | 30MHz ~ 200MHz   | 2.91 dB                              |
|                                    | 200MHz ~ 1000MHz | 2.93 dB                              |
| Radiated Emissions above 1 GHz     | 1GHz ~ 18GHz     | 1.76 dB                              |
|                                    | 18GHz ~ 40GHz    | 1.77 dB                              |

### 2.2 Modification Record

There were no modifications required for compliance.

### 3 General Information

#### 3.1 General Description of EUT

|                       |                                  |
|-----------------------|----------------------------------|
| Product               | Point of Sale Terminal           |
| Brand                 | Verifone                         |
| Test Model            | UX700-ML-1                       |
| Sample Status         | Engineering sample               |
| Power Supply Rating   | 9-43Vdc, 2.4A-0.5A               |
| Modulation Type       | GFSK, $\pi/4$ -DQPSK, 8DPSK      |
| Modulation Technology | FHSS                             |
| Transfer Rate         | 1/2/3Mbps                        |
| Operating Frequency   | 2402~2480MHz                     |
| Number of Channel     | 79                               |
| Output Power          | 13.062mW                         |
| Antenna Type          | Dipole antenna with 2.60dBi gain |
| Antenna Connector     | ipex(MHF)                        |
| Accessory Device      | Refer to external photo          |
| Cable Supplied        | Refer to external photo          |

Note:

- This report is FCC spot check verification report to the original BV CPS report no.: RFBCUG-WTW-P22010682-4. The differences compared with the original design is as below. Exhibit prepared for FCC Spot Check Verification report, the format, test items and amount of spot-check test data are decided by applicant's engineering judgment, for more details please refer to declaration letter exhibit. Therefore, only AC Power Conducted Emission, Output Power and Radiated Emissions were verified and recorded in this report. Radiated Emission tests according to original report radiated emission worst channel.  
Difference:
  - Changing FCC ID.
  - Changing model.
  - HW IO Bard:
    - FCC ID: B32UX700 and B32-UX700W are identical expect for IO Board only.
    - SAM slot depopulated.
    - Add cover and no any RF Modify.
  - HW Main Borad: UWB module & GPS module depopulated. (GPS and UWB function Removed)
  - Add one HUB with tablet including accessories.
  - Add two Dongle including accessories.
- The accessory devices of EUT, please refer to external photo.
- Detail antenna specification please refer to antenna datasheet an antenna gain measurement report.
- 2.4GHz & BT or 5GHz & BT technology can transmit at same time.
- Spurious emission of the simultaneous operation (2.4GHz & BT or 5GHz & BT) has been evaluated and no non-compliance was found.

### 3.2 Description of Test Modes

79 channels are provided to this EUT:

| Channel | Freq. (MHz) | Channel | Freq. (MHz) | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|---------|-------------|---------|-------------|---------|-------------|---------|-------------|
| 0       | 2402        | 20      | 2422        | 40      | 2442        | 60      | 2462        |
| 1       | 2403        | 21      | 2423        | 41      | 2443        | 61      | 2463        |
| 2       | 2404        | 22      | 2424        | 42      | 2444        | 62      | 2464        |
| 3       | 2405        | 23      | 2425        | 43      | 2445        | 63      | 2465        |
| 4       | 2406        | 24      | 2426        | 44      | 2446        | 64      | 2466        |
| 5       | 2407        | 25      | 2427        | 45      | 2447        | 65      | 2467        |
| 6       | 2408        | 26      | 2428        | 46      | 2448        | 66      | 2468        |
| 7       | 2409        | 27      | 2429        | 47      | 2449        | 67      | 2469        |
| 8       | 2410        | 28      | 2430        | 48      | 2450        | 68      | 2470        |
| 9       | 2411        | 29      | 2431        | 49      | 2451        | 69      | 2471        |
| 10      | 2412        | 30      | 2432        | 50      | 2452        | 70      | 2472        |
| 11      | 2413        | 31      | 2433        | 51      | 2453        | 71      | 2473        |
| 12      | 2414        | 32      | 2434        | 52      | 2454        | 72      | 2474        |
| 13      | 2415        | 33      | 2435        | 53      | 2455        | 73      | 2475        |
| 14      | 2416        | 34      | 2436        | 54      | 2456        | 74      | 2476        |
| 15      | 2417        | 35      | 2437        | 55      | 2457        | 75      | 2477        |
| 16      | 2418        | 36      | 2438        | 56      | 2458        | 76      | 2478        |
| 17      | 2419        | 37      | 2439        | 57      | 2459        | 77      | 2479        |
| 18      | 2420        | 38      | 2440        | 58      | 2460        | 78      | 2480        |
| 19      | 2421        | 39      | 2441        | 59      | 2461        |         |             |

### 3.2.1 Test Mode Applicability and Tested Channel Detail

| EUT Configure Mode | Applicable to |       |     |       | Description                |
|--------------------|---------------|-------|-----|-------|----------------------------|
|                    | RE $\geq$ 1G  | RE<1G | PLC | Power |                            |
| A                  | √             | √     | √   | √     | EUT + 2AAAJ012F US adapter |
| B                  | -             | √     | √   | -     | EUT + 2ABL018F US adapter  |

Where RE $\geq$ 1G: Radiated Emission above 1GHz & Bandedge Measurement  
 RE<1G: Radiated Emission below 1GHz  
 PLC: Power Line Conducted Emission  
 Power: Conducted Output Power

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

#### **Radiated Emission Test (Above 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 | Modulation Technology | Modulation Type | Pakcet Type |
|--------------------|-------------------|----------------|-----------------------|-----------------|-------------|
| A                  | 0 to 78           | 0              | FHSS                  | 8DPSK           | 3DH5        |

#### **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 | Modulation Technology | Modulation Type | Pakcet Type |
|--------------------|-------------------|----------------|-----------------------|-----------------|-------------|
| A, B               | 0 to 78           | 0              | FHSS                  | 8DPSK           | 3DH5        |

#### **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 Technology | Modulation Type | Pakcet Type |
|--------------------|-------------------|----------------|-----------------------|-----------------|-------------|
| A, B               | 0 to 78           | 0              | FHSS                  | 8DPSK           | 3DH5        |

#### **Conducted Output Power Measurement:**

- 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 Technology | Modulation Type | Pakcet Type |
|--------------------|-------------------|----------------|-----------------------|-----------------|-------------|
| A                  | 0 to 78           | 0, 39, 78      | FHSS                  | GFSK            | DH5         |
| A                  | 0 to 78           | 0, 39, 78      | FHSS                  | 8DPSK           | 3DH5        |

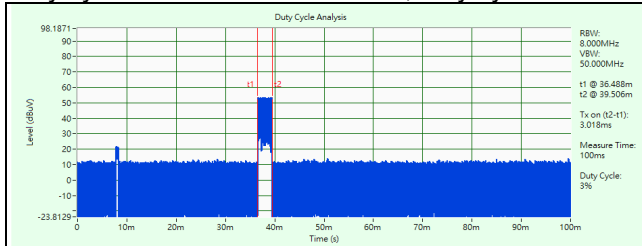


**Test Condition:**

| Applicable to | Environmental Conditions | Input Power  | Tested by    |
|---------------|--------------------------|--------------|--------------|
| RE≥1G         | 23 deg. C, 67% RH        | 120Vac, 60Hz | Greg Lin     |
| RE<1G         | 23 deg. C, 67% RH        | 120Vac, 60Hz | Greg Lin     |
| PLC           | 23 deg. C, 70% RH        | 120Vac, 60Hz | Greg Lin     |
| Power         | 25 deg. C, 60% RH        | 120Vac, 60Hz | Jisyong Wang |

**3.3 Duty Cycle of Test Signal**

Duty cycle =  $3.018/100 = 0.03018$ , duty cycle correction factor =  $20 * \log(0.03018) = -30.4$



### 3.4 Description of Support Units

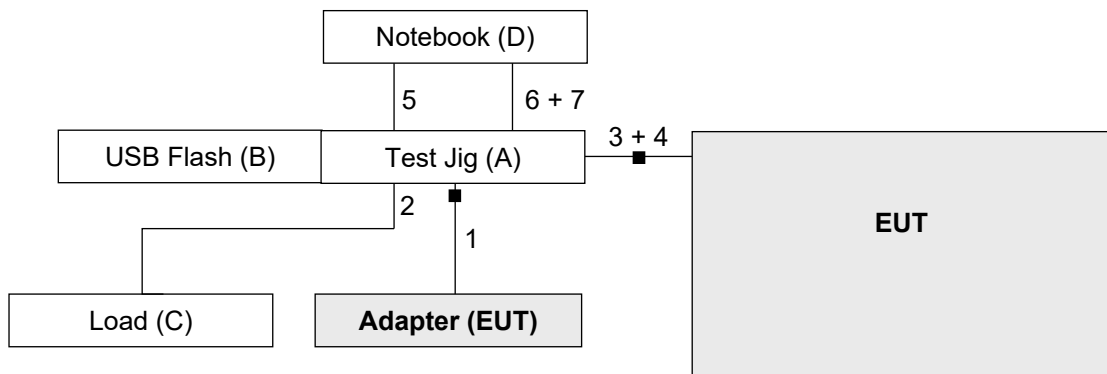
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| ID | Product   | Brand   | Model No.      | Serial No. | FCC ID           | Remarks                  |
|----|-----------|---------|----------------|------------|------------------|--------------------------|
| A. | Test Jig  | NA      | NA             | NA         | NA               | Provided by manufacturer |
| B. | USB Flash | SanDisk | SDDD3-032G     | NA         | NA               | -                        |
| C. | Load      | NA      | NA             | NA         | NA               | -                        |
| D. | Notebook  | Lenovo  | 20J4 MD A003TW | PF-11H9AK  | FCC DoC Approved | -                        |

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                  | 1            | Attached on adapter      |
| 2. | LAN Cable           | 1    | 1.5        | N                  | 0            | RJ45, Cat5e              |
| 3. | Type C Cable        | 1    | 1.0        | Y                  | 1            | Attached on Test Jig     |
| 4. | Type C Cable        | 1    | 0.3        | Y                  | 0            | Provided by manufacturer |
| 5. | USB Cable           | 1    | 1.0        | Y                  | 0            | Provided by manufacturer |
| 6. | LAN to RS-232 Cable | 1    | 1.0        | Y                  | 0            | Provided by manufacturer |
| 7. | RS-232 to USB Cable | 1    | 1.0        | N                  | 0            | -                        |

#### 3.4.1 Configuration of System under Test



### 3.5 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:

#### Test standard:

**FCC Part 15, Subpart C (15.247)**

ANSI C63.10-2013

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

#### References Test Guidance:

**KDB 558074 D01 15.247 Meas Guidance v05r02**

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

## 4 Test Types and Results

### 4.1 Radiated Emission and Bandedge Measurement

#### 4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

| 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<br>R&S              | ESR3+                        | 102782        | Dec. 12, 2022 | Dec. 11, 2023 |
| Spectrum Analyzer<br>R&S          | FSW43                        | 101866        | Jan. 10, 2023 | Jan. 09, 2024 |
| Loop Antenna<br>TESEQ             | HLA 6121                     | 45745         | Jul. 27, 2022 | Jul. 26, 2023 |
| Pre-amplifier<br>EMCI             | EMC001340                    | 980201        | Sep. 23, 2022 | Sep. 22, 2023 |
| RF Coaxial Cable<br>EMCI          | 5D-NM-BM                     | 140903+140902 | Jan. 15, 2022 | Jan. 14, 2023 |
| Preamplifier<br>EMCI              | EMC330N                      | 980782        | Jan. 16, 2023 | Jan. 15, 2024 |
| BILOG Antenna<br>SCHWARZBECK      | VULB9168                     | 9168-1213     | Oct. 20, 2022 | Oct. 19, 2023 |
| RF Coaxial Cable<br>EMCI          | EMCCFD400-NM-N<br>M-500      | 201233        | Jan. 16, 2023 | Jan. 15, 2024 |
| RF Coaxial Cable<br>EMCI          | EMCCFD400-NM-N<br>M-3000     | 201235        | Jan. 16, 2023 | Jan. 15, 2024 |
| RF Coaxial Cable<br>EMCI          | EMCCFD400-NM-N<br>M-9000     | 201236        | Jan. 16, 2023 | Jan. 15, 2024 |
| HORN Antenna<br>RF SPIN           | DRH18-E                      | 210103A18E    | Nov. 13, 2022 | Nov. 12, 2023 |
| Preamplifier<br>EMCI              | EMC118A45SE                  | 980808        | Dec. 29, 2022 | Dec. 28, 2023 |
| RF Coaxial Cable<br>EMCI          | EMC104-SM-SM-1<br>000        | 210102        | Jan. 16, 2023 | Jan. 15, 2024 |
| RF Coaxial Cable<br>EMCI          | EMC104-SM-SM-3<br>000        | 201231        | Jan. 16, 2023 | Jan. 15, 2024 |
| RF Coaxial Cable<br>EMCI          | EMC104-SM-SM-9<br>000        | 201243        | Jan. 16, 2023 | Jan. 15, 2024 |
| Preamplifier<br>EMCI              | EMC184045SE                  | 980788        | Jan. 16, 2023 | Jan. 15, 2024 |
| HORN Antenna<br>SCHWARZBECK       | BBHA 9170                    | 9170-1049     | Nov. 13, 2022 | Nov. 12, 2023 |
| RF signal cable<br>EMCI           | EMC101G-KM-KM-<br>5000       | 201260        | Jan. 16, 2023 | Jan. 15, 2024 |
| RF signal cable<br>EMCI           | EMC101G-KM-KM-<br>3000       | 201257        | Jan. 16, 2023 | Jan. 15, 2024 |
| RF signal cable<br>EMCI           | EMC101G-KM-KM-<br>2000       | 201254        | Jan. 16, 2023 | Jan. 15, 2024 |
| Software<br>BV ADT                | ADT_Radiated_<br>V7.6.15.9.5 | NA            | NA            | NA            |
| Antenna Tower & Turn<br>Max-Full  | MFT-151SS-0.5T               | NA            | NA            | NA            |
| Turn Table<br>Max-Full            | MF-7802BS                    | NA            | NA            | NA            |
| Turn Table Controller<br>Max-Full | MF-7802BS                    | MF780208674   | NA            | NA            |
| Turn Table Controller<br>Max-Full | MF-7802BS                    | MF780208674   | 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 WM - 966 chamber 8.

#### 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 30MHz ~ 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:

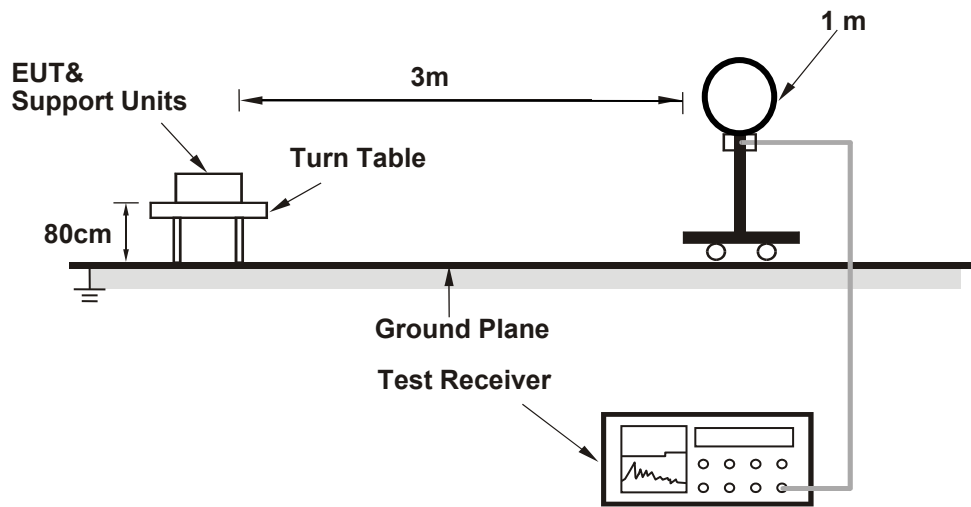
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detector (AV) at frequency above 1GHz. For fundamental and harmonic signal measurement, according to ANSI C63.10 section 7.5, the average value = peak value + duty cycle correction factor. The duty cycle correction factor refer to Chapter 3.3 of this report.
3. All modes of operation were investigated and the worst-case emissions are reported.

#### 4.1.4 Deviation from Test Standard

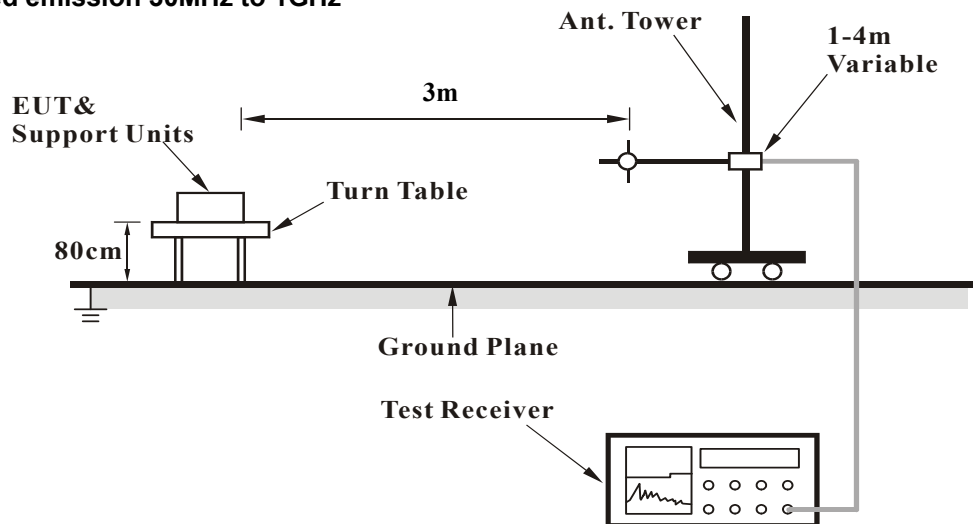
No deviation.

#### 4.1.5 Test Setup

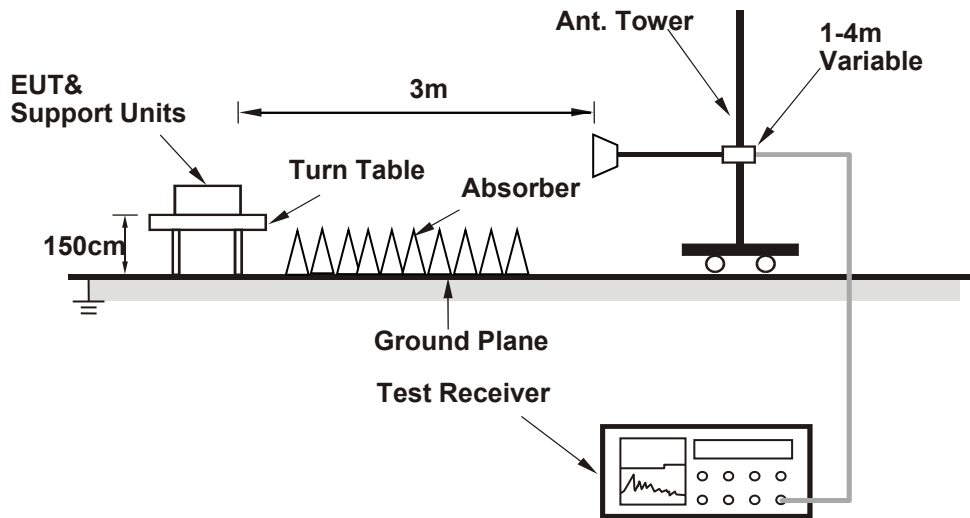
##### For Radiated emission below 30MHz



##### For Radiated emission 30MHz to 1GHz



**For Radiated emission above 1GHz**



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

**4.1.6 EUT Operating Conditions**

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

#### 4.1.7 Test Results

Above 1GHz data:

|                 |              |                   |                           |
|-----------------|--------------|-------------------|---------------------------|
| RF Mode         | TX BT_8DPSK  | Channel           | CH 0 : 2402 MHz           |
| Frequency Range | 1GHz ~ 25GHz | Detector Function | Peak (PK)<br>Average (AV) |

| 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  | 2390.00         | 57.0 PK                 | 74.0           | -17.0       | 2.56 H             | 83                   | 24.7             | 32.3                     |
| 2  | 2390.00         | 44.7 AV                 | 54.0           | -9.3        | 2.56 H             | 83                   | 12.4             | 32.3                     |
| 3  | *2402.00        | 101.9 PK                |                |             | 2.56 H             | 83                   | 69.6             | 32.3                     |
| 4  | *2402.00        | 71.5 AV                 |                |             | 2.56 H             | 83                   | 39.2             | 32.3                     |
| 5  | 4804.00         | 48.3 PK                 | 74.0           | -25.7       | 1.34 H             | 102                  | 44.8             | 3.5                      |
| 6  | 4804.00         | 17.9 AV                 | 54.0           | -36.1       | 1.34 H             | 102                  | 14.4             | 3.5                      |
| 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  | 2390.00         | 57.4 PK                 | 74.0           | -16.6       | 2.53 V             | 116                  | 25.1             | 32.3                     |
| 2  | 2390.00         | 44.9 AV                 | 54.0           | -9.1        | 2.53 V             | 116                  | 12.6             | 32.3                     |
| 3  | *2402.00        | 108.2 PK                |                |             | 2.53 V             | 116                  | 75.9             | 32.3                     |
| 4  | *2402.00        | 77.8 AV                 |                |             | 2.53 V             | 116                  | 45.5             | 32.3                     |
| 5  | 4804.00         | 48.8 PK                 | 74.0           | -25.2       | 1.27 V             | 128                  | 45.3             | 3.5                      |
| 6  | 4804.00         | 18.4 AV                 | 54.0           | -35.6       | 1.27 V             | 128                  | 14.9             | 3.5                      |

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.
5. " \* " : Fundamental frequency.
6. The average value of fundamental and harmonic frequency is: Average = Peak value + 20 log(Duty cycle) Where the duty factor is calculated from following formula:  
 $20 \log(\text{Duty cycle}) = 20 \log(3.018 \text{ ms} / 100 \text{ ms}) = -30.4 \text{ dB}$  (Please see item 3.3 for plotted duty).



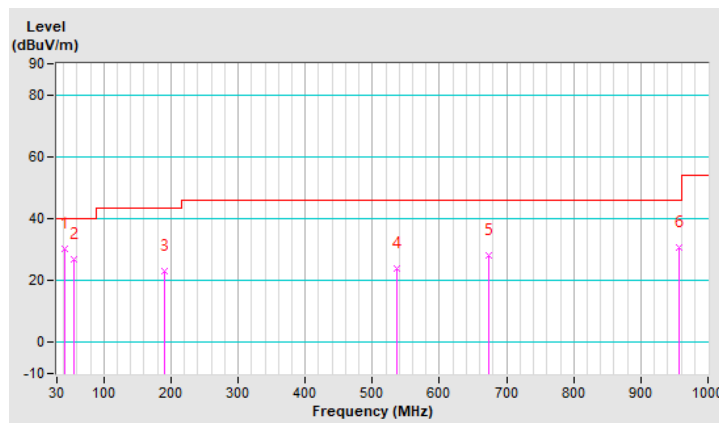
Below 1GHz worst-case data:

|                 |              |                   |                 |
|-----------------|--------------|-------------------|-----------------|
| RF Mode         | TX BT_8DPSK  | Channel           | CH 0 : 2402 MHz |
| Frequency Range | 30MHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |
| Test Mode       | A            |                   |                 |

| 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  | 42.61           | 30.4 QP                 | 40.0           | -9.6        | 1.00 H             | 18                   | 43.8             | -13.4                    |
| 2  | 55.22           | 26.9 QP                 | 40.0           | -13.1       | 1.50 H             | 223                  | 40.4             | -13.5                    |
| 3  | 191.02          | 23.2 QP                 | 43.5           | -20.3       | 1.25 H             | 152                  | 39.2             | -16.0                    |
| 4  | 537.31          | 23.7 QP                 | 46.0           | -22.3       | 1.25 H             | 110                  | 31.0             | -7.3                     |
| 5  | 673.11          | 28.3 QP                 | 46.0           | -17.7       | 1.25 H             | 174                  | 32.9             | -4.6                     |
| 6  | 957.32          | 30.8 QP                 | 46.0           | -15.2       | 1.00 H             | 209                  | 31.3             | -0.5                     |

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 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

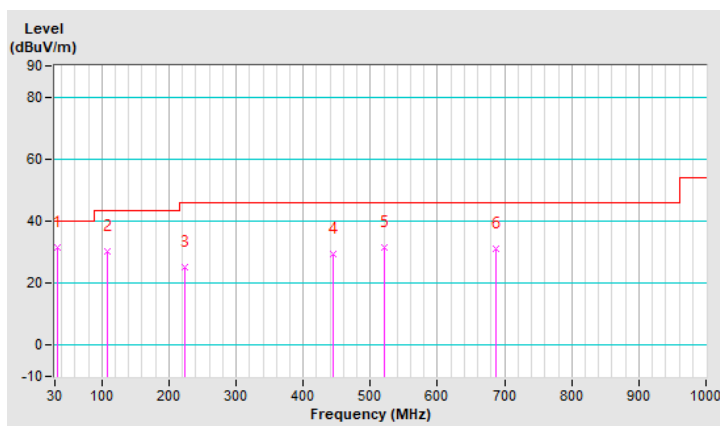


|                 |              |                   |                 |
|-----------------|--------------|-------------------|-----------------|
| RF Mode         | TX BT_8DPSK  | Channel           | CH 0 : 2402 MHz |
| Frequency Range | 30MHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |
| Test Mode       | A            |                   |                 |

| 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  | 33.88           | 31.5 QP                 | 40.0           | -8.5        | 1.00 V             | 5                    | 45.7             | -14.2                    |
| 2  | 107.60          | 30.3 QP                 | 43.5           | -13.2       | 1.00 V             | 217                  | 46.7             | -16.4                    |
| 3  | 223.03          | 25.3 QP                 | 46.0           | -20.7       | 1.50 V             | 310                  | 42.0             | -16.7                    |
| 4  | 445.16          | 29.2 QP                 | 46.0           | -16.8       | 1.25 V             | 284                  | 38.1             | -8.9                     |
| 5  | 521.79          | 31.4 QP                 | 46.0           | -14.6       | 1.00 V             | 2                    | 38.8             | -7.4                     |
| 6  | 686.69          | 31.2 QP                 | 46.0           | -14.8       | 1.00 V             | 306                  | 35.5             | -4.3                     |

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 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

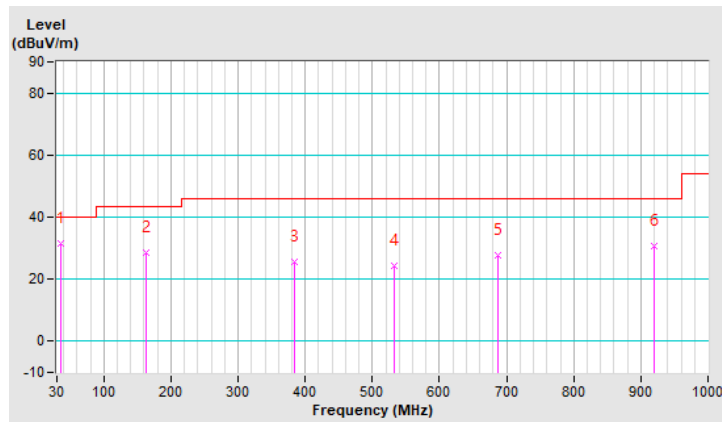


|                 |              |                   |                 |
|-----------------|--------------|-------------------|-----------------|
| RF Mode         | TX BT_8DPSK  | Channel           | CH 0 : 2402 MHz |
| Frequency Range | 30MHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |
| Test Mode       | B            |                   |                 |

| 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  | 36.79           | 31.7 QP                 | 40.0           | -8.3        | 1.00 H             | 115                  | 45.7             | -14.0                    |
| 2  | 163.86          | 28.4 QP                 | 43.5           | -15.1       | 1.50 H             | 278                  | 41.6             | -13.2                    |
| 3  | 384.05          | 25.8 QP                 | 46.0           | -20.2       | 1.00 H             | 267                  | 36.4             | -10.6                    |
| 4  | 532.46          | 24.5 QP                 | 46.0           | -21.5       | 1.50 H             | 66                   | 31.8             | -7.3                     |
| 5  | 687.66          | 27.9 QP                 | 46.0           | -18.1       | 1.25 H             | 186                  | 32.2             | -4.3                     |
| 6  | 920.46          | 30.7 QP                 | 46.0           | -15.3       | 1.50 H             | 179                  | 31.8             | -1.1                     |

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. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

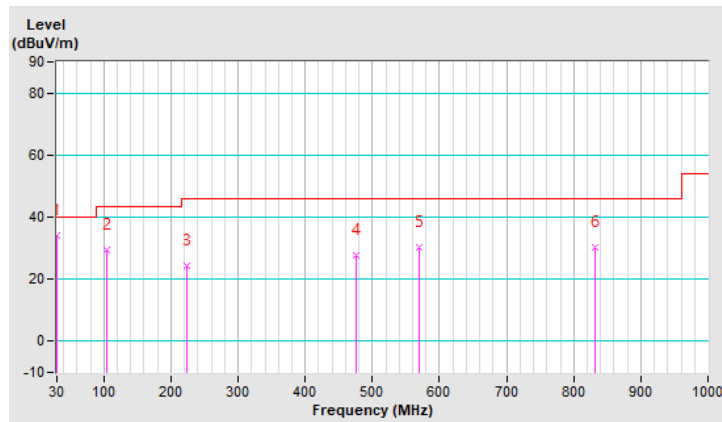


|                 |              |                   |                 |
|-----------------|--------------|-------------------|-----------------|
| RF Mode         | TX BT_8DPSK  | Channel           | CH 0 : 2402 MHz |
| Frequency Range | 30MHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |
| Test Mode       | B            |                   |                 |

| 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  | 30.00           | 33.9 QP                 | 40.0           | -6.1        | 1.00 V             | 18                   | 48.3             | -14.4                    |
| 2  | 104.69          | 29.2 QP                 | 43.5           | -14.3       | 1.50 V             | 226                  | 46.0             | -16.8                    |
| 3  | 223.03          | 24.5 QP                 | 46.0           | -21.5       | 1.25 V             | 211                  | 41.2             | -16.7                    |
| 4  | 476.20          | 27.6 QP                 | 46.0           | -18.4       | 1.00 V             | 270                  | 35.9             | -8.3                     |
| 5  | 570.29          | 30.2 QP                 | 46.0           | -15.8       | 1.00 V             | 324                  | 36.8             | -6.6                     |
| 6  | 831.22          | 30.1 QP                 | 46.0           | -15.9       | 1.50 V             | 68                   | 32.1             | -2.0                     |

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. Margin value = Emission Level – Limit value.
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



## 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<br>ROHDE & SCHWARZ        | ESCI                     | 100613         | Dec. 05, 2022 | Dec. 04, 2023 |
| RF signal cable<br>Woken                | 5D-FB                    | Cable-cond1-01 | Jan. 07, 2023 | Jan. 06, 2024 |
| LISN<br>ROHDE & SCHWARZ<br>(EUT)        | ENV216                   | 101826         | Mar. 14, 2022 | Mar. 13, 2023 |
| LISN<br>ROHDE & SCHWARZ<br>(Peripheral) | ESH3-Z5                  | 100311         | Sep. 12, 2022 | Sep. 11, 2023 |
| Software<br>ADT                         | BV ADT_Cond_<br>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 HY - Conduction 1.

3. The VCCI Site Registration No. is C-12040.

#### 4.2.3 Test Procedures

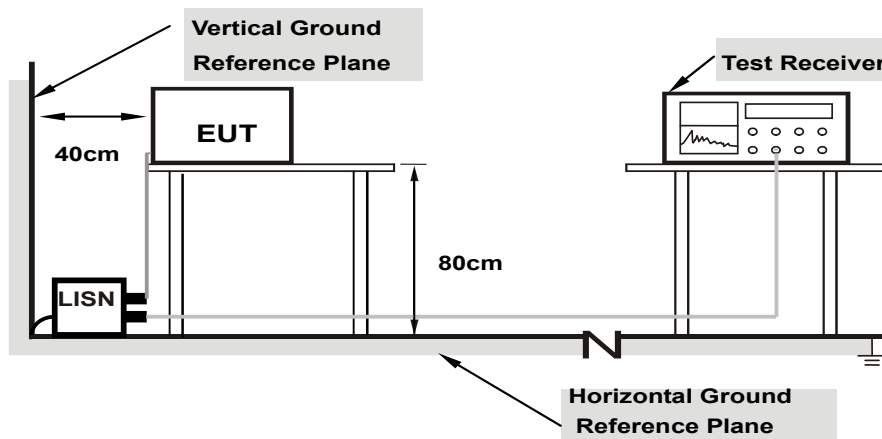
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

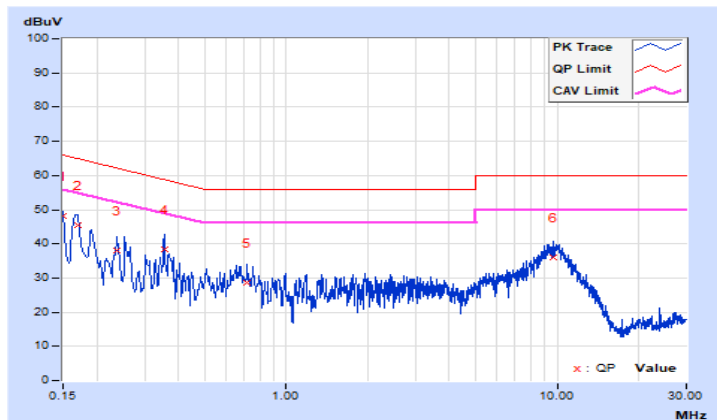
#### 8DPSK

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

| No | Freq.<br>[MHz] | Corr. Factor<br>(dB) | Reading Value |       | Emission Level |       | Limit     |       | Margin |        |
|----|----------------|----------------------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
|    |                |                      | [dB (uV)]     |       | [dB (uV)]      |       | [dB (uV)] |       | (dB)   |        |
|    |                |                      | Q.P.          | AV.   | Q.P.           | AV.   | Q.P.      | AV.   | Q.P.   | AV.    |
| 1  | 0.15000        | 9.68                 | 38.42         | 24.06 | 48.10          | 33.74 | 66.00     | 56.00 | -17.90 | -22.26 |
| 2  | 0.17000        | 9.70                 | 35.89         | 23.26 | 45.59          | 32.96 | 64.96     | 54.96 | -19.37 | -22.00 |
| 3  | 0.23786        | 9.74                 | 28.31         | 17.88 | 38.05          | 27.62 | 62.17     | 52.17 | -24.12 | -24.55 |
| 4  | 0.35400        | 9.79                 | 28.54         | 19.05 | 38.33          | 28.84 | 58.87     | 48.87 | -20.54 | -20.03 |
| 5  | 0.71400        | 9.84                 | 18.69         | 12.47 | 28.53          | 22.31 | 56.00     | 46.00 | -27.47 | -23.69 |
| 6  | 9.64200        | 10.04                | 25.95         | 17.55 | 35.99          | 27.59 | 60.00     | 50.00 | -24.01 | -22.41 |

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.

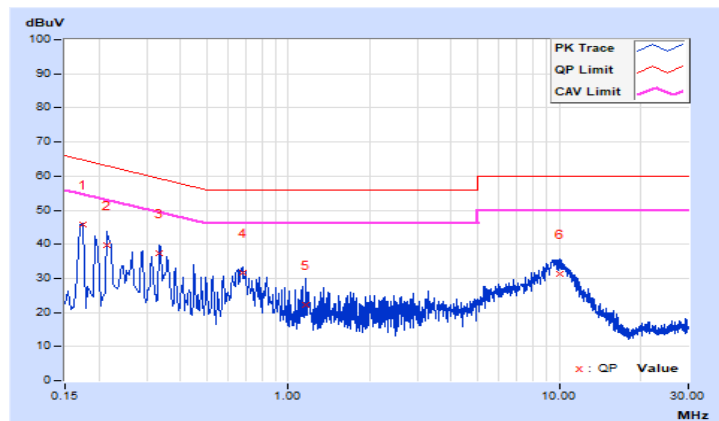


|           |             |                   |                                |
|-----------|-------------|-------------------|--------------------------------|
| Phase     | Neutral (N) | Detector Function | Quasi-Peak (QP) / Average (AV) |
| Test Mode | A           |                   |          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

| No | Freq.<br>[MHz] | Corr. Factor<br>(dB) | Reading Value<br>[dB (uV)] |         | Emission Level<br>[dB (uV)] |       | Limit<br>[dB (uV)] |       | Margin<br>(dB) |        |
|----|----------------|----------------------|----------------------------|---------|-----------------------------|-------|--------------------|-------|----------------|--------|
|    |                |                      | Q.P.                       | AV.     | Q.P.                        | AV.   | Q.P.               | AV.   | Q.P.           | AV.    |
|    |                |                      | 1                          | 0.17384 | 9.70                        | 36.07 | 20.29              | 45.77 | 29.99          | 64.77  |
| 2  | 0.21400        | 9.72                 | 29.95                      | 16.74   | 39.67                       | 26.46 | 63.05              | 53.05 | -23.38         | -26.59 |
| 3  | 0.33400        | 9.77                 | 27.64                      | 14.68   | 37.41                       | 24.45 | 59.35              | 49.35 | -21.94         | -24.90 |
| 4  | 0.67800        | 9.82                 | 21.85                      | 16.18   | 31.67                       | 26.00 | 56.00              | 46.00 | -24.33         | -20.00 |
| 5  | 1.16200        | 9.86                 | 12.21                      | 4.58    | 22.07                       | 14.44 | 56.00              | 46.00 | -33.93         | -31.56 |
| 6  | 9.99800        | 10.08                | 21.32                      | 12.21   | 31.40                       | 22.29 | 60.00              | 50.00 | -28.60         | -27.71 |

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.



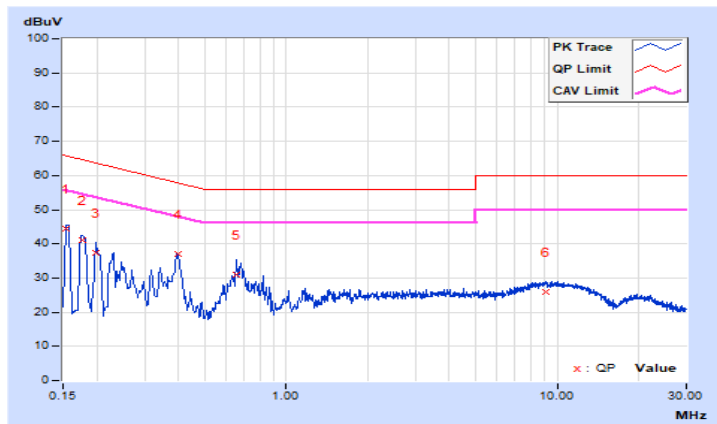


|           |          |                   |                                |
|-----------|----------|-------------------|--------------------------------|
| Phase     | Line (L) | Detector Function | Quasi-Peak (QP) / Average (AV) |
| Test Mode | B        |                   |                      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

| No | Freq.<br>[MHz] | Corr. Factor<br>(dB) | Reading Value<br>[dB (uV)] |         | Emission Level<br>[dB (uV)] |       | Limit<br>[dB (uV)] |       | Margin<br>(dB) |        |
|----|----------------|----------------------|----------------------------|---------|-----------------------------|-------|--------------------|-------|----------------|--------|
|    |                |                      | Q.P.                       | AV.     | Q.P.                        | AV.   | Q.P.               | AV.   | Q.P.           | AV.    |
|    |                |                      | 1                          | 0.15400 | 9.68                        | 34.90 | 19.53              | 44.58 | 29.21          | 65.78  |
| 2  | 0.17615        | 9.70                 | 31.27                      | 16.64   | 40.97                       | 26.34 | 64.67              | 54.67 | -23.70         | -28.33 |
| 3  | 0.19800        | 9.72                 | 27.59                      | 13.52   | 37.31                       | 23.24 | 63.69              | 53.69 | -26.38         | -30.45 |
| 4  | 0.39655        | 9.81                 | 27.07                      | 26.05   | 36.88                       | 35.86 | 57.93              | 47.93 | -21.05         | -12.07 |
| 5  | 0.65800        | 9.84                 | 21.10                      | 15.68   | 30.94                       | 25.52 | 56.00              | 46.00 | -25.06         | -20.48 |
| 6  | 9.06600        | 10.03                | 15.90                      | 12.15   | 25.93                       | 22.18 | 60.00              | 50.00 | -34.07         | -27.82 |

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.

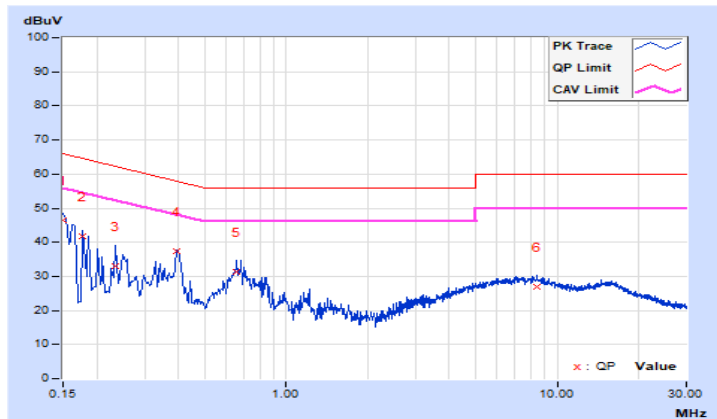


|           |             |                   |                                |
|-----------|-------------|-------------------|--------------------------------|
| Phase     | Neutral (N) | Detector Function | Quasi-Peak (QP) / Average (AV) |
| Test Mode | B           |                   |          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

| No       | Freq.<br>[MHz] | Corr. Factor<br>(dB) | Reading Value<br>[dB (uV)] |              | Emission Level<br>[dB (uV)] |              | Limit<br>[dB (uV)] |              | Margin<br>(dB) |               |
|----------|----------------|----------------------|----------------------------|--------------|-----------------------------|--------------|--------------------|--------------|----------------|---------------|
|          |                |                      | Q.P.                       | AV.          | Q.P.                        | AV.          | Q.P.               | AV.          | Q.P.           | AV.           |
|          |                |                      | 1                          | 0.15000      | 9.68                        | 36.66        | 20.18              | 46.34        | 29.86          | 66.00         |
| 2        | 0.17800        | 9.70                 | 32.03                      | 16.82        | 41.73                       | 26.52        | 64.58              | 54.58        | -22.85         | -28.06        |
| 3        | 0.23400        | 9.73                 | 23.28                      | 14.24        | 33.01                       | 23.97        | 62.31              | 52.31        | -29.30         | -28.34        |
| <b>4</b> | <b>0.39550</b> | <b>9.79</b>          | <b>27.54</b>               | <b>26.54</b> | <b>37.33</b>                | <b>36.33</b> | <b>57.95</b>       | <b>47.95</b> | <b>-20.62</b>  | <b>-11.62</b> |
| 5        | 0.65800        | 9.82                 | 21.65                      | 16.31        | 31.47                       | 26.13        | 56.00              | 46.00        | -24.53         | -19.87        |
| 6        | 8.43400        | 10.06                | 16.85                      | 13.69        | 26.91                       | 23.75        | 60.00              | 50.00        | -33.09         | -26.25        |

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.



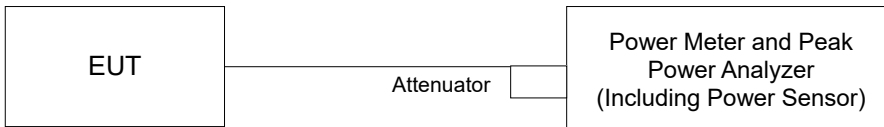
### 4.3 Maximum Output Power

#### 4.3.1 Limits of Maximum Output Power Measurement

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels: 1 watt.

For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

#### 4.3.2 Test Setup



#### 4.3.3 Test Instruments

| Description & Manufacturer        | Model No. | Serial No. | Cal. Date     | Cal. Due      |
|-----------------------------------|-----------|------------|---------------|---------------|
| Wideband Power Sensor<br>KEYSIGHT | N1923A    | MY58020002 | Jan. 18, 2023 | Jan. 17, 2024 |
| Peak Power Analyzer<br>KEYSIGHT   | 8990B     | MY51000485 | Jan. 19, 2023 | Jan. 18, 2024 |
| Spectrum Analyzer<br>R&S          | FSV40     | 100979     | Mar. 25, 2022 | Mar. 24, 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.

#### 4.3.4 Test Procedure

For Peak Power

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

For Average Power

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

#### 4.3.5 Deviation from Test Standard

No deviation.

#### 4.3.6 EUT Operating Condition

The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

#### 4.3.7 Test Results

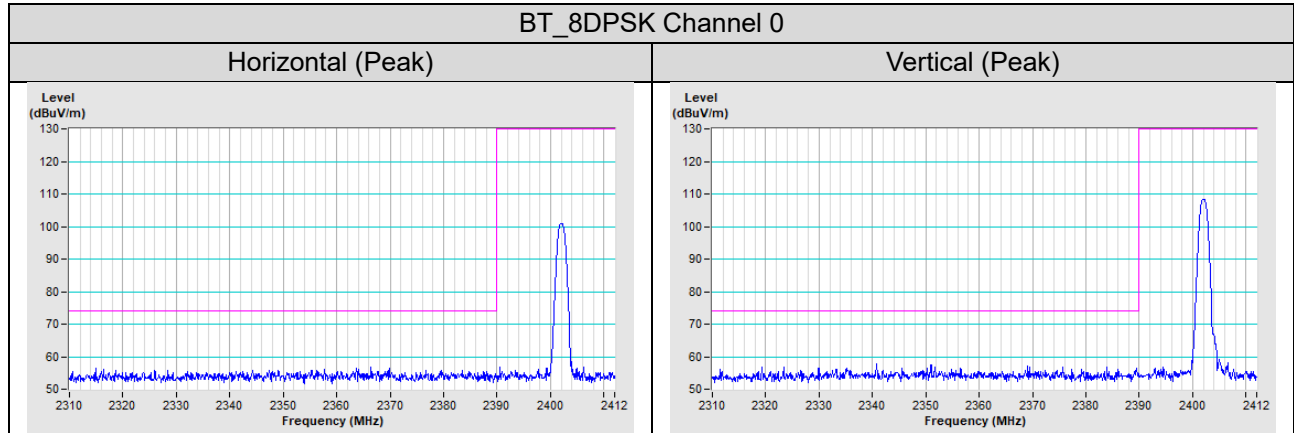
##### For Peak Power

| Channel | Frequency (MHz) | Output Power (mW) |        | Output Power (dBm) |       | Power Limit (mW) | Pass / Fail |
|---------|-----------------|-------------------|--------|--------------------|-------|------------------|-------------|
|         |                 | GFSK              | 8DPSK  | GFSK               | 8DPSK |                  |             |
| 0       | 2402            | 11.885            | 12.106 | 10.75              | 10.83 | 125.00           | Pass        |
| 39      | 2441            | 13.062            | 12.677 | 11.16              | 11.03 | 125.00           | Pass        |
| 78      | 2480            | 7.621             | 7.228  | 8.82               | 8.59  | 125.00           | Pass        |

##### For Average Power

| Channel | Frequency (MHz) | Output Power (mW) |       | Output Power (dBm) |       |
|---------|-----------------|-------------------|-------|--------------------|-------|
|         |                 | GFSK              | 8DPSK | GFSK               | 8DPSK |
| 0       | 2402            | 10.789            | 6.730 | 10.33              | 8.28  |
| 39      | 2441            | 11.776            | 7.112 | 10.71              | 8.52  |
| 78      | 2480            | 6.934             | 4.159 | 8.41               | 6.19  |

## Annex A - Band Edge Measurement



## 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 and approved according to ISO/IEC 17025.

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

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