

EMI TEST REPORT FOR FCC VERIFICATION

For

Wincor Nixdorf Pte. Ltd.

POS Terminal

Model No.: BEETLE /iPOS plus Advanced

Brand: WINCOR NIXDORF

Prepared for

Wincor Nixdorf Pte. Ltd.

151 Lorong Chuan, New Tech Park #05-01A/B
Singapore 556741

Prepared by

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Report Number : ACWE-F1401001C

Date of Test : May 13~22, 2017

Date of Report : Jul.12, 2017

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TEST REPORT VERIFICATION

Applicant : Wincor Nixdorf Pte. Ltd.
 Manufacturer : Wincor Nixdorf Pte. Ltd.
 EUT Description : POS Terminal
 (A) Model No. : BEETLE /iPOS plus Advanced
 (B) Brand : WINCOR NIXDORF
 (C) Power Supply : DC 24V, 5A
 (D) Test Voltage : AC 120V, 60Hz

Applicable Standards:

FCC 47 CFR Part 15 Subpart B/Oct. 2015
 ANSI C63.4: 2014
 ICES-003 Issue 6: 2016

(Note: These results are deemed satisfactory evidence of compliance with ICES-003 of the Canadian Interference-Causing Equipment Regulations.)

The device described above was tested by Audix Technology (Wujiang) Co., Ltd. EMC Dept. to determine the maximum emission levels emanating from the device. The maximum emission levels were compared with the requirements in section §15.107(b) and §15.109(b) of FCC Part 15 regulation. The measurement results are contained in this test report and Audix Technology (Wujiang) Co., Ltd. EMC Dept. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC limits.

This report applies to above tested sample only and which shall not be reproduced in part without written approval of Audix Technology (Wujiang) Co., Ltd. EMC Dept.


Date of Test: May 13~22, 2017

Date of Report: Jul.12, 2017

Prepared by :


 (Emma Hu/Assistant Administer)

Approved & Authorized Signer :


 (Ken Lu/ Assistant General Manager)

1 DESCRIPTION OF VERSION

| Edition No. | Date of Rev. | Summary | Report No. |
|-------------|--------------|--|----------------|
| 0 | Jan.14, 2014 | Original Report | ACWE-F1401001 |
| Rev. A | Jul.07, 2015 | 1. Changing I/O Hub controller IC. 2. Add 10 points touch, alternate panel and changes at touch controller. | ACWE-F1401001A |
| Rev. B | Jul.17, 2016 | 1.Updated I/O shield(no vent holes), aluminium housing(no vent holes at VESA area) 2. Add a new LCD panel. 3. Add new touch sensor & touch controller. 4. Alternate copper based CPU cooler. 5. Add in NFC Board. 6. Add two new CPUS: (1)I3-4350T 3.10GHz (2)I5-4590T 2.0/3.0GHz 7. Add new HDD and Memories. | ACWE-F1401001B |
| Rev. C | Jul.12, 2017 | 1. Add a new alternate motherboard(due new generation of processors&RAM). 2. Add a new alternate enclosure construction(remove the hump). 3. Add five new CPUs: (1)i5-6500TE (2)i3-6100TE (3)G3900TE (4)i3-7101TE (5)i5-7500T 4. Add a new 24V power USB port&Type-C port. 5. Add a wireless module(Intel Wireless-ac 8265)-WIFI(2.4GHz, 5GHz), Bluetooth 4.0, NFC(13.56MHz). | ACWE-F1401001C |

2 SUMMARY OF STANDARDS AND RESULTS

The EUT has been tested according to the applicable standards and test results are referred as below.

| EMISSION | | | | |
|--------------------------|---|---------------------|---------|--|
| Description of Test Item | Standard | Limits | Results | Remark |
| Conducted Emission | FCC 47 CFR Part 15 Subpart B/ Oct. 2015 | §15.107 (b) Class A | PASS | Minimum passing margin is 10.49 dB at 0.15 MHz |
| Radiated Emission | FCC 47 CFR Part 15 Subpart B/ Oct. 2015 | §15.109 (b) Class A | PASS | Minimum passing margin is 18.45 dB at 522.57 MHz |

3 GENERAL INFORMATION

3.1 Description of Device (EUT)

| | | |
|---------------------------|---|---|
| Product | : | POS Terminal |
| Model Number | : | BEETLE /iPOS plus Advanced |
| Brand | : | WINCOR NIXDORF |
| Applicant | : | Wincor Nixdorf Pte. Ltd. 151 Lorong Chuan, New Tech Park #05-01A/B Singapore 556741 |
| Manufacturer | : | Wincor Nixdorf Pte. Ltd. 151 Lorong Chuan, New Tech Park #05-01A/B Singapore 556741 |
| Adapter | : | I/P: AC100-240V, 50-60Hz, 2.0A, O/P: DC24.0V, 5.0A DC Cable: Shielded, Undetachable, 1.5m AC Cable: Unshielded, Detachable, 1.8m |
| Date of Receipt of Sample | : | Apr.11, 2017 |
| Date of Test | : | May 13~22, 2017 |

3.2 Configuration of components under test

| Component | Brand | Model Number/Part Number | Note |
|---|--|---------------------------|----------------------------|
| Motherboard | WINCOR NIXDORF | D611 | Chipset: H81 |
| | | D611 | Chipset: Q87 |
| Motherboard(Added) | WINCOR NIXDORF | D873 | Chipset: H110 |
| | | D873 | Chipset: Q170 |
| LCD Panel #1 | Sharp | LQ150X1LG98 | 15 inch TFT-LCD |
| LCD Panel #2 | AUO | G150XTN03.0 | 15 inch TFT-LCD |
| LCD Panel #3 | Sharp | LQ150X1LX99 | 15 inch TFT-LCD |
| CPU | Intel | i5-4570TE | 2.70G / 1150pin |
| | | i3-4330TE | 2.40G / 1150pin |
| | | Pentium, G3320TE | 2.30G / 1150pin |
| | | Celeron, G1820TE | 2.20 G / 1150pin |
| | | I3-4350T | 3.10GHz |
| | | I5-4590T | 2.0/3.0GHz |
| CPU(Added) | Intel | i5-6500TE | 2.3/3.3GHz, 4 Cores |
| | | i3-6100TE | 2.70 GHz, 2 Cores |
| | | Celeron, G3900TE | 2.3GHz, 2 Cores |
| | | i3-7101TE | 3.40 GHz, 2 Cores |
| | | i5-7500T | 2.7/3.3GHz, 4 Cores |
| CPU Fan | Dynaeon Industrial Co., Ltd | DB127515BH-A | 12 Vdc, 0.9 A max. |
| CPU Cooler | Dynatron | T385R1 | 12 Vdc, 0.7 A max. |
| HDD | Seagate | ST980811AS | 80GB |
| | Seagate | ST250LT012 | 250GB |
| | Seagate | ST500LT012 | SATA/500GB/5400rpm |
| Memory | Apacer | SOD PC3-10600 CL9 | 2GB |
| | Apacer | PC3-10600 CL9 4GB | 4GB |
| | ADATA | PC3-10600 CL9 4GB | 8GB |
| Memory(Added) | Apacer | SOD DDR4 2133 CL15 | 4GB |
| WLAN Module (Added) | Intel | 8265NGW | --- |
| PC- Touch (Projective Capacitive Touch) | --- | --- | --- |
| R –Touch (Resistive Touch) | --- | --- | --- |
| Adapter | M/N: ADC029 Brand: AcBel I/P: AC 100-240V~, 50-60Hz, 2.0A, O/P: DC 24.0V, 5.0A DC Cord: Shielded, Undetectable, 1.5m, bonded 1 ferrite core. | | |

3.3 Configurations' list of components as following:

| Components Mode | LCD Panel | Touch panel | CPU | HDD | Memory | Motherboard |
|---------------------|-----------------------|------------------------|-------------------------------|------------------------|----------------------------------|-----------------------|
| Configuration 1 | Sharp, LQ150X1LX99 | R-Touch | Intel, i5-6500TE | Seagate, ST500LT012 | Apacer, SOD DDR4 2133 CL15 | D873, Chipset:Q170 |
| Configuration 2 | Sharp, LQ150X1LX99 | PC-Touch | Intel, i3-6100TE | Seagate, ST500LT012 | Apacer, SOD DDR4 2133 CL15 | D873, Chipset:Q170 |
| Configuration 3 | Sharp, LQ150X1LX99 | R-Touch or PC-Touch | Intel, i3-7101TE | Seagate, ST500LT012 | Apacer, SOD DDR4 2133 CL15 | D873, Chipset:Q170 |
| Configuration 4 | Sharp, LQ150X1LX99 | PC-Touch | Intel, Celeron, G3900TE | Seagate, ST500LT012 | Apacer, SOD DDR4 2133 CL15 | D873, Chipset:Q170 |
| Configuration 5 | Sharp, LQ150X1LX99 | R-Touch or PC-Touch | Intel, i5-7500T | Seagate, ST500LT012 | Apacer, SOD DDR4 2133 CL15 | D873, Chipset:Q170 |
| Configuration 6 | Sharp, LQ150X1LX99 | R-Touch | Intel, i5-6500TE | Seagate, ST500LT012 | Apacer, SOD DDR4 2133 CL15 | D873, Chipset:H110 |
| Configuration 7 | Sharp, LQ150X1LX99 | PC-Touch | Intel, i3-6100TE | Seagate, ST500LT012 | Apacer, SOD DDR4 2133 CL15 | D873, Chipset:H110 |
| Configuration 8 | Sharp, LQ150X1LX99 | R-Touch or PC-Touch | Intel, i3-7101TE | Seagate, ST500LT012 | Apacer, SOD DDR4 2133 CL15 | D873, Chipset:H110 |
| Configuration 9 | Sharp, LQ150X1LX99 | PC-Touch | Intel, Celeron, G3900TE | Seagate, ST500LT012 | Apacer, SOD DDR4 2133 CL15 | D873, Chipset:H110 |
| Configuration 10 | Sharp, LQ150X1LX99 | R-Touch or PC-Touch | Intel, i5-7500T | Seagate, ST500LT012 | Apacer, SOD DDR4 2133 CL15 | D873, Chipset:H110 |

Remark:

EUT with above 1~10 configurations were pre-scanned at the test voltage AC110V/60Hz for Conducted & Radiated Disturbance Measurements with following modes. Please refer all test data to appendix II & III.

Conducted Disturbance Measurements:

| Mode | Test Condition |
|------------------|--|
| For AC Main Port | |
| 1 | Full System (Configuration 1) |
| 2 | Full System (Configuration 2) |
| 3 | Full System (Configuration 3) |
| 4 | Full System (Configuration 4) |
| 5 | Full System (Configuration 5) |
| 6 | Full System (Configuration 6) |
| 7 | Full System (Configuration 7) |
| 8 | Full System (Configuration 8) |
| 9 | Full System (Configuration 9) |
| 10 | Full System (Configuration 10) |

Radiated Disturbance Measurements:

| Mode | Test Condition |
|----------------|--|
| For 30MHz~1GHz | |
| 11 | Full System (Configuration 1) |
| 12 | Full System (Configuration 2) |
| 13 | Full System (Configuration 3) |
| 14 | Full System (Configuration 4) |
| 15 | Full System (Configuration 5) |
| 16 | Full System (Configuration 6) |
| 17 | Full System (Configuration 7) |
| 18 | Full System (Configuration 8) |
| 19 | Full System (Configuration 9) |
| 20 | Full System (Configuration 10) |
| For 1GHz~6GHz | |
| 21 | Full System (Configuration 1) |
| 22 | Full System (Configuration 2) |
| 23 | Full System (Configuration 3) |
| 24 | Full System (Configuration 4) |
| 25 | Full System (Configuration 5) |
| 26 | Full System (Configuration 6) |
| 27 | Full System (Configuration 7) |
| 28 | Full System (Configuration 8) |
| 29 | Full System (Configuration 9) |
| 30 | Full System (Configuration 10) |

Finally, the worse test modes (**Mode 1&11&21**) was demonstrated at AC120V/60Hz for Conducted & Radiated Disturbance Measurement and recorded in the report.

3.4 List of Interface Ports of EUT

| | | |
|-----------------|---|---|
| Interface Ports | : | Plink 2 port → Link to Second Display |
| | | USB port*1 → Link to Expend I/O board |
| | | USB port*1 → Link to Second Display |
| | | USB port*3 → Link to HDD*3 |
| | | Power USB port*1 → Link to HDD |
| | | Type C Port*1 → Link to HDD |
| | | USB port*1 → Link to keyboard |
| | | USB port*1 → Link to Mouse |
| | | LAN 1 port → Link to Host PC |
| | | DC 24V Input (POS Terminal) → Link to stand |
| | | RS232 port → Link to Modem |
| | | RS232 port → Link to Customer display |
| | | Audio Out port → Link to Earphone |
| | | RJ12 port → Cash Drawer Controller |
| | | RS232 port → Link to Handheld scanner |
| | | RS232 port → Link to POS Printer |
| | | DC 24V Input (stand) → Link to AC Adapter |
| | | eSATA port → Link to the HDD in stand. |

Remark: This update report is to add a new alternate motherboard(due new generation of processors&RAM); add a new alternate enclosure construction(remove the hump); add a new 24V power USB port&Type-C port; add five new CPUs: (1)i5-6500TE (2)i3-6100TE (3)G3900TE (4)i3-7101TE (5)i5-7500T; add a wireless module(Intel Wireless-ac8265)-WIFI(2.4GHz, 5GHz), Bluetooth 4.0, NFC(13.56MHz), so we chose the worst configuration in original report to pre-scan with five new CPUs, and the worst test data are record in this report ACWE-F1401001C.

3.5 Operating Condition of EUT

- 3.5.1 Set up the EUT as showed in respective block diagram of test setup.
- 3.5.2 Turn on the power of all equipment. The printer, keyboard and mouse are all in standing by.
- 3.5.3 Driving software “BurnIn Test” to make the EUT operating normally.
- 3.5.4 The RJ-45 port of EUT operates normally by ping test of another PC.
- 3.5.5 The other peripheral devices are driven and operated in turn during all testing.
- 3.5.6 What is said above will be put into practice as the TKC-402 test plan after the work of EUT in the stable state.

3.6 Tested Supporting System Details (AE)

3.6.1 USB Keyboard

| | | |
|---------------|---|--|
| Manufacturer | : | DELL |
| Model Number | : | L100 |
| Serial Number | : | CN-ORH656-65890-97D-052P |
| Data Cable | : | Shielded, Undetachable, 2.0m, 1 ferrite core |

3.6.2 USB Mouse

| | | |
|---------------|---|------------------------------|
| Manufacturer | : | HP |
| Model Number | : | M-UAE96 |
| Serial Number | : | FATSK0L5B0LE1R |
| Data Cable | : | Shielded, Undetachable, 1.8m |

3.6.3 USB HDD #1

| | | |
|---------------|---|-----------------------------|
| Manufacturer | : | SEAGATE |
| Model Number | : | SRD00F1 |
| Serial Number | : | NA4233KW |
| Data Cable | : | Shielded, Detachable, 1.0 m |

3.6.4 USB HDD #2

| | | |
|---------------|---|-----------------------------|
| Manufacturer | : | SEAGATE |
| Model Number | : | SRD00F1 |
| Serial Number | : | NA45HL0Z |
| Data Cable | : | Shielded, Detachable, 1.0 m |

3.6.5 USB HDD #3

| | | |
|---------------|---|-----------------------------|
| Manufacturer | : | SEAGATE |
| Model Number | : | SRD00F1 |
| Serial Number | : | NA4233SF |
| Data Cable | : | Shielded, Detachable, 1.0 m |

3.6.6 USB HDD #4

| | | |
|---------------|---|-----------------------------|
| Manufacturer | : | SEAGATE |
| Model Number | : | SRD00F1 |
| Serial Number | : | NA4233P0 |
| Data Cable | : | Shielded, Detachable, 1.0 m |

3.6.7 USB HDD #5

| | | |
|---------------|---|-----------------------------|
| Manufacturer | : | SEAGATE |
| Model Number | : | SRD00F1 |
| Serial Number | : | NA41RT5Z |
| Data Cable | : | Shielded, Detachable, 1.0 m |

3.6.8 Earphone

| | | |
|--------------|---|---------------------------------|
| Manufacturer | : | SOMIC |
| Model Number | : | SM-301 |
| Audio Cable | : | Unshielded, Undetachable, 2.2 m |

3.6.9 Modem

| | | |
|---------------|---|---------------------------------------|
| Manufacturer | : | ACEEX |
| Model Number | : | MODEM1414 |
| Serial Number | : | 980034391 |
| Data Cable | : | Shielded, Detachable, 1.5m |
| Adapter | : | HUACHENG/HC-1609 |
| | : | DC Cord: Shielded, Undetachable, 1.5m |

3.6.10 POS Printer

| | | |
|-----------------------|---|--|
| Manufacturer | : | WINCOR NIXDORF |
| Model Number | : | TH200 |
| Serial Number | : | BYG0016613 |
| RS-232→Parallel Cable | : | Shielded, Detachable, 2.0m |
| AC Adapter | : | Brand: TIGER POWER, M/N: TG-0652-24V I/P: AC100-240V, 50-60Hz, 1.6A Max. O/P: DC 24V, 2.6A DC Cord: Unshielded, Undetachable, 1.5m |

3.6.11 Cash Drawer Controller

| | | |
|---------------|---|------------------------------|
| Manufacturer | : | WINCOR NIXDORF |
| Serial Number | : | 1750060917 |
| RJ-12 Cable | : | Shielded, Undetachable, 1.5m |

3.6.12 Scanner

| | | |
|---------------|---|--------------------------------|
| Manufacturer | : | Eclipse |
| Model Number | : | MS5145 |
| Serial Number | : | 5207023188 |
| RS232 Cable | : | Unshielded, Undetachable, 1.6m |

3.6.13 Host PC

| | | |
|---------------|---|--|
| Manufacturer | : | Lenovo |
| Model Number | : | SL500 |
| Serial Number | : | N/A |
| BSMI ID | : | R33160 |
| Power Cord | : | Unshielded, Detachable, 1.0m |
| AC Adapter | : | M/N: 92P1211 Input: AC 100-240V, 50-60Hz, 2.0A-1.2A Output: DC 20V, 3.25A DC Cord: Shielded, Undetachable, 1.8m, 1 ferrite core. |

3.6.14 Second Display

| | | |
|--------------|---|--------------------------------|
| Manufacturer | : | WINCOR NIXDORF |
| Model Number | : | BA93 |
| RS232 Cable | : | Unshielded, Undetachable, 2.6m |

3.6.15 Customer Display

| | | |
|--------------|---|--------------------------------|
| Manufacturer | : | WINCOR NIXDORF |
| Model Number | : | BA63-1 |
| RS232 Cable | : | Unshielded, Undetachable, 2.6m |

3.6.16 AC Power Cord

| | |
|---|------------------------------|
| : | Unshielded, Detachable, 1.8m |
|---|------------------------------|

3.7 Description of Test Facility

Name of Firm : **Audix Technology (Wujiang) Co.,Ltd EMC Dept.**

Site Location : No. 1289 Jiangxing East Road, the Eastern Part of
Wujiang Economic Development Zone
Jiangsu China 215200

Test Facilities : **No. 1 10m Semi-anechoic Chamber**
FCC Filing Date of Validity: May 23, 2015
Registration No. : 252588
No. 1 Conducted Shielding Enclosure

NVLAP Lab Code : 200786-0
Valid until on Sep. 30, 2017
(NVLAP is a signatory member of ILAC MRA)
Remark: This report shall not be imply endorsement,
certification or approval by NVLAP, NIST, or any
agency of the U.S. Federal Government.

3.8 Measurement Uncertainty

| Test Item | Range Frequency | Uncertainty |
|--|-----------------|----------------------------------|
| No.1 Conducted Shielding Enclosure | | |
| Conducted Disturbance Measurement at mains port | 0.15MHz ~ 30MHz | $\pm 2.65\text{dB}$ |
| At 10m Semi-Anechoic Chamber | | |
| Radiated Disturbance Measurement (Distance 10m) | 30MHz~1GHz | $\pm 3.65\text{dB}$ (Horizontal) |
| | | $\pm 3.74\text{dB}$ (Vertical) |
| Radiated Disturbance Measurement (Distance 3m) | 1GHz ~ 6GHz | $\pm 4.73\text{dB}$ |

Remark: Uncertainty = $k_{uc}(y)$

4 CONDUCTED EMISSION MEASUREMENT

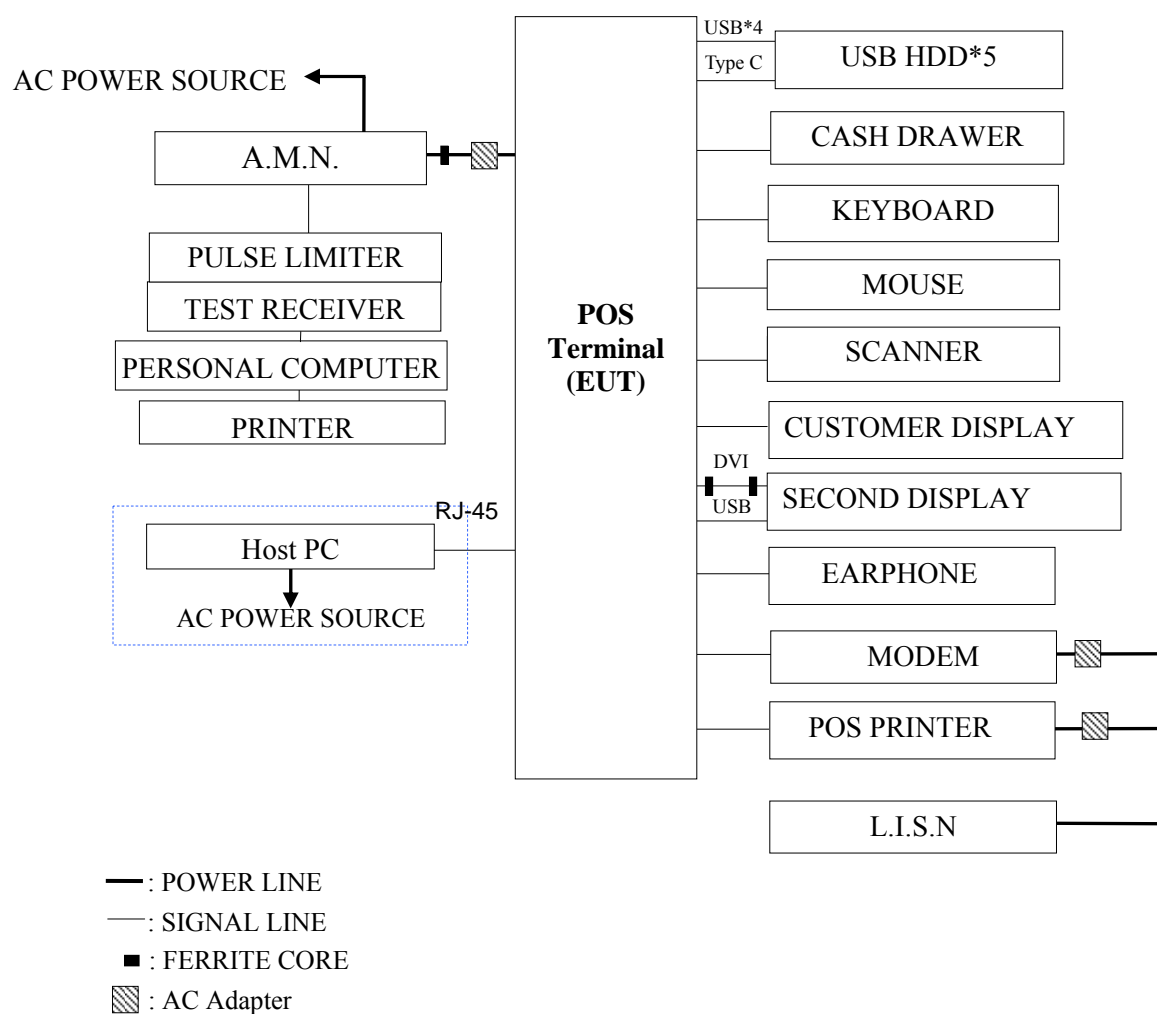
4.1 Test Equipment

The following test equipments were used during the conducted emission measurement :

| Item | Type | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|------|---------------|--------------------|-----------|-----------------------|------------|------------|
| 1. | Test Receiver | R & S | ESCI | 100351 | 2016-07-03 | 2017-07-02 |
| 2. | A.M.N | R & S | ESH2-Z5 | 100153 | 2017-04-21 | 2018-04-20 |
| 3. | L.I.S.N. | Kyoritsu | KNW-407 | 8-1793-3 | 2016-07-03 | 2017-07-02 |
| 4. | Pulse Limiter | R&S | ESH3-Z2 | 100605 | 2016-07-03 | 2017-07-02 |
| 5. | RF Cable | Shenxuan | RG400 | Cable 59/1+Switch) | 2017-01-04 | 2018-01-03 |
| 6. | Software | Audix/e3(6.7.0313) | | | | |

4.2 Block Diagram of Test Setup

4.2.1 Block Diagram of Test Setup for AC Mains Port



4.3 Power line Conducted Emission Limit

(§15.107(b), Class A)

| Frequency | Maximum RF Line Voltage | |
|---------------|-------------------------|---------------|
| | Quasi-Peak Level | Average Level |
| 150kHz ~ 5MHz | 79dB μ V | 66dB μ V |
| 5MHz ~ 30MHz | 73B μ V | 60B μ V |

Remark 1. If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.

2. The tight limit applies at the band edges.

4.4 Test Procedure

The measuring process is according to ANSI C63.4 clause 12 and laboratory internal procedure TKC-301-010.

In the conducted emission measurement, the EUT and all peripheral devices were set up on a non-metallic table which was 0.8 meter height above the ground plane, and 0.4 meter far away from the vertical plane. The mains cable of the EUT connected to one Artificial Main Network(AMN). All other unit of the EUT and AE connected to a second Line Impedance Stabilization Network(L.I.S.N.). The telecommunication cable connected to the AE through a Impedance Stabilization Network(ISN) which terminated a 50 Ω resistor. For the measurement, the A.M.N measuring port was terminated by a 50 Ω measuring equipment and the second L.I.S.N measuring port was terminated by a 50 Ω terminator. All measurements were done between the phase lead and the reference ground, and between the neutral lead and the reference ground. All cables or wires placement were verified to find out the maximum emission.

The bandwidth of measuring receiver was set at 9 kHz.

The required frequency band (0.15 MHz ~ 30 MHz) was pre-scanned with peak detector; the final measurement was measured with quasi-peak detector and average detector. (If the average limit is met when using a quasi-peak detector, the average detector is unnecessary).

The emission level is calculated automatically by the test system which uses the following equation:

Emission level (dB μ V) = Reading (dB μ V) + A.M.N factor (dB) + Cable loss (dB).
(Cable loss includes pulse limiter loss)

4.5 Conducted Emission Measurement Results

PASSED

The details of test modes and reference test data are as follows :

Test Date: May 13, 2017

Temperature: 18.7°C

Humidity: 46%

| Item | Test Condition | Reference Test Data No. | |
|----------|--------------------------------------|-------------------------|--------------|
| | | Neutral | Line |
| 1 | Full System (Configuration 1) | # 32 | ※# 31 |

NOTE 1 – ‘※’ means the worst test mode.

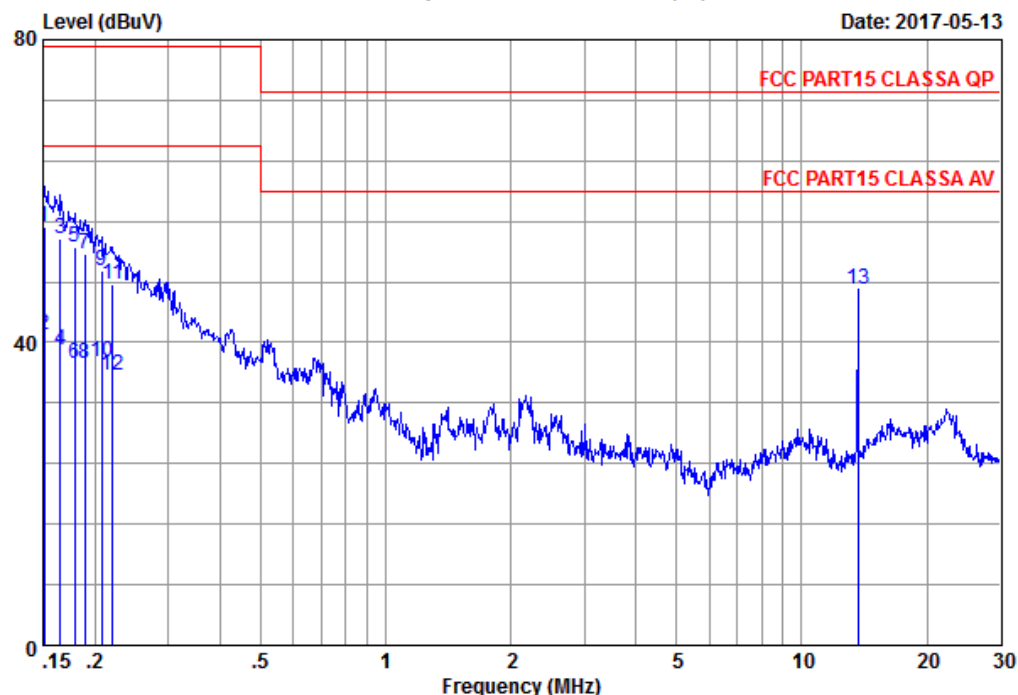
NOTE 2 – The worst emission is detected at 0.15 MHz with emission level of 55.29 dB (μV) and with QP detector (limit is 65.78 dB (μV), when the Line of the EUT is connected to A.M.N.



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Data: 32 File: F:\2017Test Data\Report\4\1W1704055.EM6 (37)

Date: 2017-05-13



Site no. : No.1 Conducted shielding Enclosure Data no. : 32
AMN/LISN : ESH2-Z5-1605 Phase : NEUTRAL
Limit : FCC PART15 CLASS A QP
Env. / Ins. : 18.7°C&46%/ESCI Engineer : KM.Tong
EUT : POS Terminal
M/N : BEETLE/iPOS plus Advanced
Power Rating : 120Vac/60Hz
Test mode : Full System
Memo : Configuration 1

| | Freq. (MHz) | AMN+PS Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|----|----------------|--------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1 | 0.15 | 0.15 | 0.02 | 45.10 | 55.18 | 79.00 | 23.82 | QP |
| 2 | 0.15 | 0.15 | 0.02 | 30.90 | 40.98 | 66.00 | 25.02 | Average |
| 3 | 0.17 | 0.15 | 0.02 | 43.60 | 53.68 | 79.00 | 25.32 | QP |
| 4 | 0.17 | 0.15 | 0.02 | 28.90 | 38.98 | 66.00 | 27.02 | Average |
| 5 | 0.18 | 0.15 | 0.02 | 42.60 | 52.68 | 79.00 | 26.32 | QP |
| 6 | 0.18 | 0.15 | 0.02 | 27.10 | 37.18 | 66.00 | 28.82 | Average |
| 7 | 0.19 | 0.15 | 0.02 | 41.70 | 51.78 | 79.00 | 27.22 | QP |
| 8 | 0.19 | 0.15 | 0.02 | 27.20 | 37.28 | 66.00 | 28.72 | Average |
| 9 | 0.21 | 0.15 | 0.02 | 39.30 | 49.38 | 79.00 | 29.62 | QP |
| 10 | 0.21 | 0.15 | 0.02 | 27.30 | 37.38 | 66.00 | 28.62 | Average |
| 11 | 0.22 | 0.15 | 0.02 | 37.70 | 47.78 | 79.00 | 31.22 | QP |
| 12 | 0.22 | 0.15 | 0.02 | 25.61 | 35.69 | 66.00 | 30.31 | Average |
| 13 | 13.62 | 0.49 | 0.15 | 36.45 | 46.98 | 73.00 | 26.02 | Peak |

Remarks:

1.Emission Level= AMN(Include Pulse Att) factor + Cable loss + Reading .

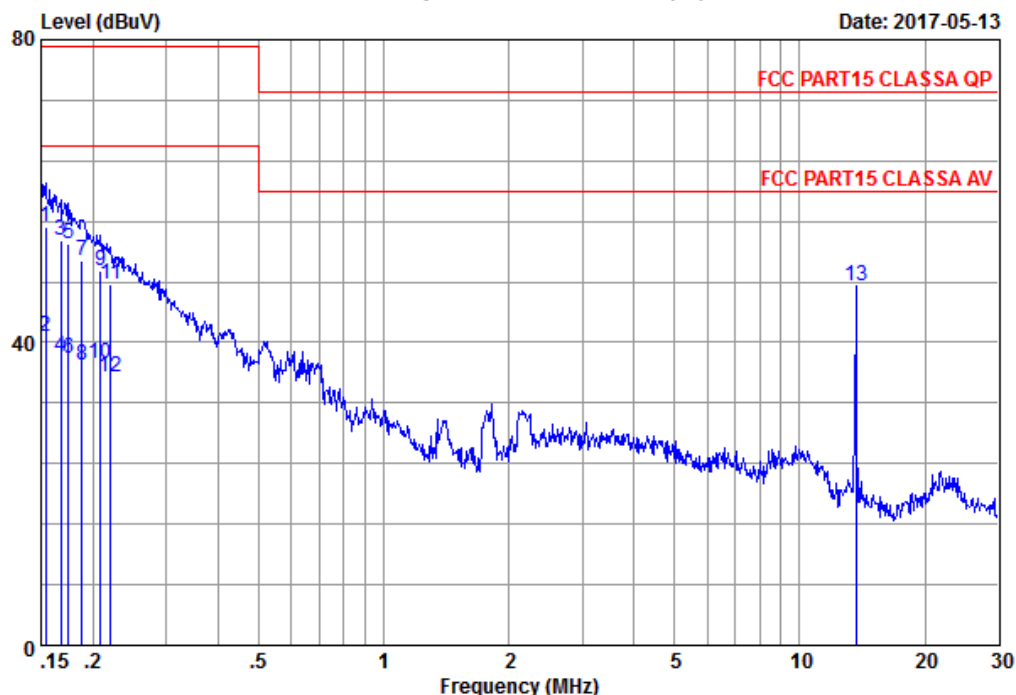


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Data: 31

File: F:\2017Test Data\Report\4\C1W1704055.EM6 (37)

Date: 2017-05-13



Site no. : No.1 Conducted shielding Enclosure Data no. : 31
AMN/LISN : ESH2-Z5-1605 Phase : LINE
Limit : FCC PART15 CLASS A QP
Env. / Ins. : 18.7°C&46%/ESCI Engineer : KM.Tong
EUT : POS Terminal
M/N : BEETLE/iPOS plus Advanced
Power Rating : 120Vac/60Hz
Test mode : Full System
Memo : Configuration 1

| | Freq. (MHz) | AMN+PS Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|----|----------------|--------------------------|-----------------------|-------------------|-----------------------------|------------------|----------------|---------|
| 1 | 0.15 | 0.16 | 0.02 | 45.20 | 55.29 | 79.00 | 23.71 | QP |
| 2 | 0.15 | 0.16 | 0.02 | 30.70 | 40.79 | 66.00 | 25.21 | Average |
| 3 | 0.17 | 0.16 | 0.02 | 43.40 | 53.49 | 79.00 | 25.51 | QP |
| 4 | 0.17 | 0.16 | 0.02 | 28.01 | 38.10 | 66.00 | 27.90 | Average |
| 5 | 0.17 | 0.16 | 0.02 | 43.00 | 53.09 | 79.00 | 25.91 | QP |
| 6 | 0.17 | 0.16 | 0.02 | 27.70 | 37.79 | 66.00 | 28.21 | Average |
| 7 | 0.19 | 0.16 | 0.02 | 40.80 | 50.89 | 79.00 | 28.11 | QP |
| 8 | 0.19 | 0.16 | 0.02 | 26.90 | 36.99 | 66.00 | 29.01 | Average |
| 9 | 0.21 | 0.16 | 0.02 | 39.40 | 49.49 | 79.00 | 29.51 | QP |
| 10 | 0.21 | 0.16 | 0.02 | 27.10 | 37.19 | 66.00 | 28.81 | Average |
| 11 | 0.22 | 0.16 | 0.02 | 37.70 | 47.79 | 79.00 | 31.21 | QP |
| 12 | 0.22 | 0.16 | 0.02 | 25.40 | 35.49 | 66.00 | 30.51 | Average |
| 13 | 13.62 | 0.44 | 0.15 | 36.89 | 47.37 | 73.00 | 25.63 | Peak |

Remarks:

1.Emission Level= AMN(Include Pulse Att) factor + Cable loss + Reading .

5 RADIATED DISTURBANCE MEASUREMENT

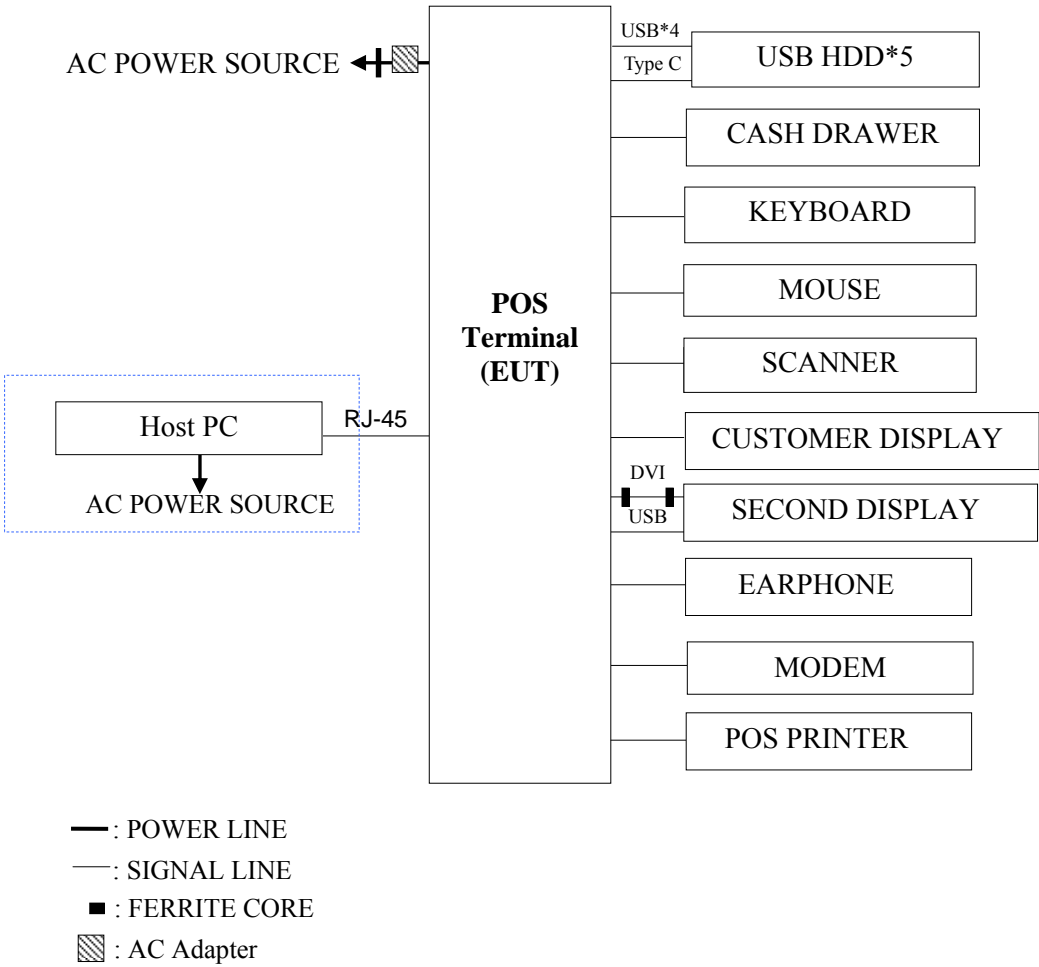
5.1 Test Equipment

The following test equipment was used during the radiated emission measurement :
(At 10m Semi-Anechoic Chamber)

| Item | Type | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|------|--------------------------------|--------------------|-----------------|----------------|------------|------------|
| 1. | Spectrum Analyzer | Agilent | E7405A | MY45107028 | 2017-01-05 | 2018-01-04 |
| 2. | PXA signal analyzer | Agilent | N9030A | MY53120367 | 2017-06-23 | 2018-06-22 |
| 3. | Pre-Amplifier | Chengyi dianzi | EMC9135 | 980374 | 2017-01-04 | 2018-01-03 |
| 4. | Pre-Amplifier | Chengyi dianzi | EMC9135 | 980373 | 2017-01-04 | 2018-01-03 |
| 5. | Bi-log Antenna (Horizontal) | Seibersdorf | VULB 9168 | 704 | 2016-07-20 | 2017-07-19 |
| 6. | Bi-log Antenna (Vertical) | Seibersdorf | VULB 9168 | 703 | 2016-07-20 | 2017-07-19 |
| 7. | Horn Antenna | EMCO | 3115 | 62960 | 2016-07-07 | 2017-07-06 |
| 8. | Test Receiver | R&S | ESCI | 100352 | 2017-01-04 | 2018-01-03 |
| 9. | RF SWITCH | AUDIX | R2S | 20121102111250 | 2017-01-05 | 2018-01-04 |
| 10. | Microwave amplifier | Agilent | 8449B | 3008A02234 | 2017-01-05 | 2018-01-04 |
| 11. | RF Cable | Shengxuan | CSRH | 50/2 | 2017-01-04 | 2018-01-03 |
| 12. | RF Cable | Shengxuan | CSRH | 59/2 | 2017-01-04 | 2018-01-03 |
| 13. | RF Cable | Shengxuan | CSRH | 50/1 | 2017-01-04 | 2018-01-03 |
| 14. | RF Cable | Shengxuan | CSRH | 59/4 | 2017-01-04 | 2018-01-03 |
| 15. | RF Cable | Huber+Suhner | SUCOFLEX 104 | 504085/4 | 2017-01-05 | 2018-01-04 |
| 16. | RF Cable | Huber+Suhner | SUCOFLEX 104 | 504087/4 | 2017-01-05 | 2018-01-04 |
| 17. | Software | Audix/e3(6.7.0313) | | | | |

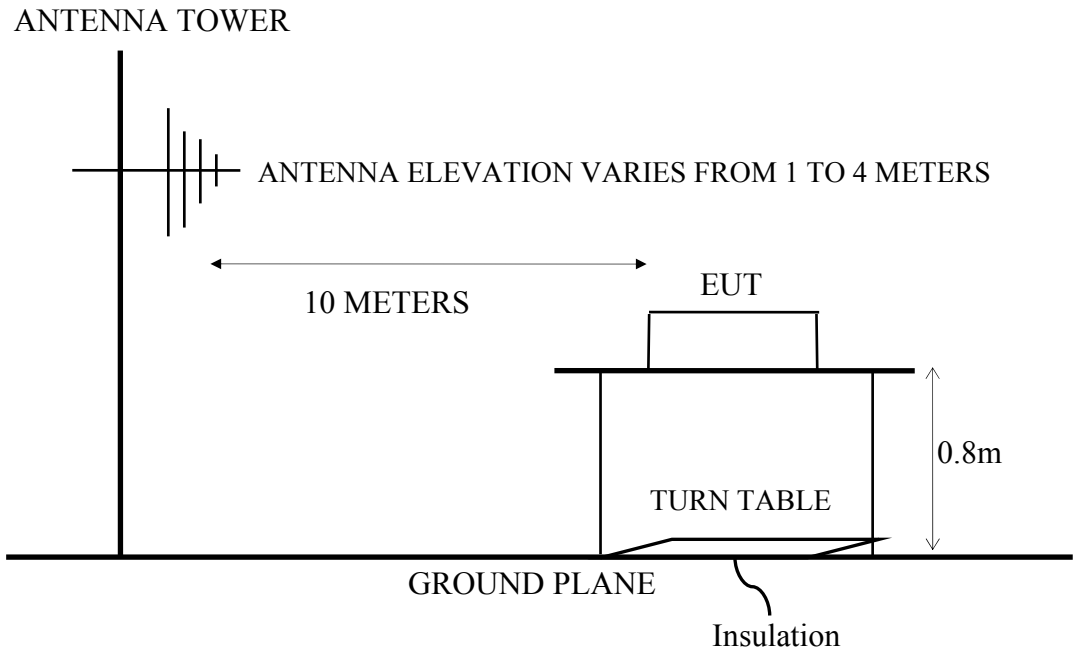
5.2 Block Diagram of Test Setup

5.2.1 Block Diagram of connection between EUT and simulators

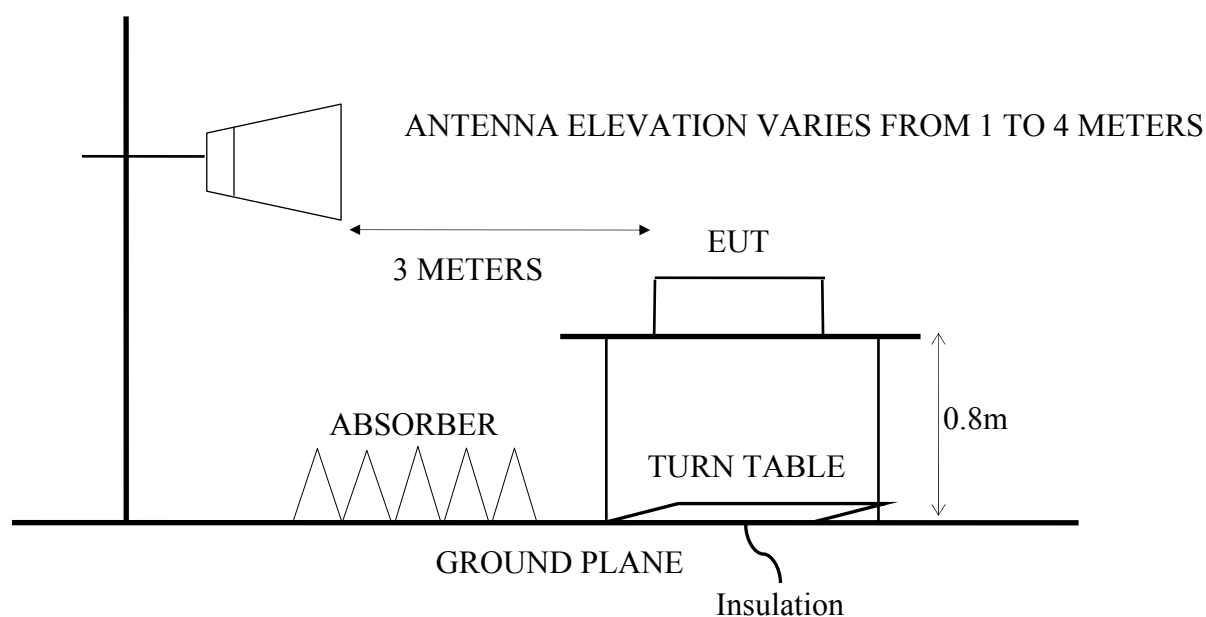


5.2.2 Test Setup at No. 1 10m Semi-Anechoic Chamber Setup Diagram (Test distance: 10m)

For 30MHz~1000MHz



5.2.3 No. 1 10m Semi-Anechoic Chamber Setup Diagram (Test distance: 3m)

For Above 1GHz**ANTENNA TOWER**

5.3 Radiation Emission Limit

5.3.1 Limits for Radiated Disturbance (below 1GHz, §15.109(b), Class A)

All emanations from receiver shall not exceed the level of field strengths specified below:

| FREQUENCY (MHz) | DISTANCE (Meters) | FIELD STRENGTHS LIMITS | |
|--------------------|----------------------|------------------------|------------------------------|
| | | ($\mu\text{V/m}$) | ($\text{dB}\mu\text{V/m}$) |
| 30 ~ 88 | 10 | 90 | 39 |
| 88~216 | 10 | 150 | 43.5 |
| 216~960 | 10 | 210 | 46.4 |

Notes: (1) Emission level($\text{dB}\mu\text{V/m}$)= $20 \log$ Emission level($\mu\text{V/m}$).

(2) The tight limit applies at the edge between two frequency bands.

(3) The 3m limit applies relation: $L_2 = L_1 (d_1/d_2)$

5.3.2 Limits for Radiated Disturbance (1GHz~15GHz, §15.109(b), Class A)

| FREQUENCY (MHz) | DISTANCE (Meters) | FIELD STRENGTHS LIMITS | |
|--------------------|----------------------|------------------------|------------------------------|
| | | ($\mu\text{V/m}$) | ($\text{dB}\mu\text{V/m}$) |
| Above 960 | 3 | 300 | 50 |

Notes: (1) Emission level($\text{dB}\mu\text{V/m}$)= $20 \log$ Emission level($\mu\text{V/m}$).

(2) The tight limit applies at the edge between two frequency bands.

(3) The 3m limit applies relation: $L_2 = L_1 (d_1/d_2)$

5.4 Test Procedure

The measuring process is according to ANSI C63.4 clause 12 and laboratory internal procedure TKC-301-011.

In the radiated disturbance measurement, the EUT and all simulators were set up on a non-metallic turn table which was 0.8 meter above the ground plane. Measurement distance between EUT and receiving antennas was set at 10 meters at 30MHz~1GHz and 3 meters at 1GHz~6GHz. The measurement distance is the shortest horizontal distance between an imaginary circular periphery which consists of EUT periphery and cables and the reference point of the antenna. During the radiated measurement, the EUT was rotated 360° and receiving antennas were moved from 1 ~ 4 meters for finding maximum emission. Two receiving antennas were used for both horizontal and vertical polarization detection for 30MHz~1GHz, One receiving antennas was used for both horizontal and vertical polarization detection for 1GHz~6GHz (the absorbing material was added when testing of 1GHz~6GHz was done). All cables or wires placement were verified to find out the maximum emission.

The bandwidth of measuring receiver (or spectrum analyzer) was set to:

RBW (120 kHz), VBW (300kHz) for QP detector below 1GHz

RBW (1 MHz), VBW (1MHz) for Peak detector above 1GHz

RBW (1 MHz), VBW (10Hz) for Average detector above 1GHz

which is defined against CISPR16-1-1 section.

The required frequency band (30MHz ~ 6GHz) was pre-scanned with peak detector; all final measurements were measured with quasi-peak detector below 1GHz, measured with average detector and peak detector above 1GHz.

The emission level is calculated automatically by the test system which uses the following equation:

1. For 30MHz-1GHz measurement:

$$\text{Emission Level (dB}\mu\text{V/m)} = \text{Reading (dB}\mu\text{V)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)}$$

2. For 1GHz-6GHz measurement:

$$\text{Emission Level (dB}\mu\text{V/m)} = \text{Reading (dB}\mu\text{V)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Pre-amplifier factor (dB}\mu\text{V)}$$

In chapter 7.6.6.1 the standard EN 55016-2-3 requires to include the values of w in the test report: “ w : The dimension of the line tangent to the EUT formed by $\theta_{3\text{dB}}$ at the measurement distance d . Equation (10) shall be used to calculate w for each actual antenna and measurement distance used. The values of w shall be included in the test report. This calculation may be based on the manufacturer-provided receive-antenna beamwidth specifications:

$$w = 2 \times d \times \tan(0,5 \times \theta_{3\text{dB}})$$

| Frequency | 3115 Horn | |
|-----------|-----------------------|---------------|
| GHz | $\theta_{3\text{dB}}$ | $d=3\text{m}$ |
| | ($^{\circ}$) | w (m) |
| 1.00 | 66 | 3.90 |
| 2.00 | 54 | 3.06 |
| 4.00 | 50 | 2.80 |
| 6.00 | 34 | 1.83 |

The values of w . are greater than chapter 7.6.6.1 of Table 2, the minimum dimension of w . (W_{min}) requirements.

5.5 Radiated Emission Measurement Results

PASSED.

5.5.1 For 30~1000MHz Frequency Range

The details of test modes and reference test data are as follows:

Test Date: May 18, 2017 Temperature: 18.7°C Humidity: 57%

| Item | Test Condition | Reference Test Data No. | |
|------|-------------------------------|-------------------------|----------|
| | | Horizontal | Vertical |
| ※1 | Full System (Configuration 1) | # 31 | # 32 |

NOTE 1 - ‘※’ means the worst test mode.

NOTE 2 - 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

NOTE 3 - The worst emission at horizontal polarization was detected at 336.54 MHz with emission level of 27.36 dB μ V/m (limit is 46.40 dB μ V/m), when the antenna was 4.0 m height and the turntable was at 152°. The worst emission at vertical polarization was detected at 522.57 MHz with emission level of 27.95 dB μ V/m (limit is 46.40 dB μ V/m), when the antenna was 1.0 m height and the turntable was at 149°.

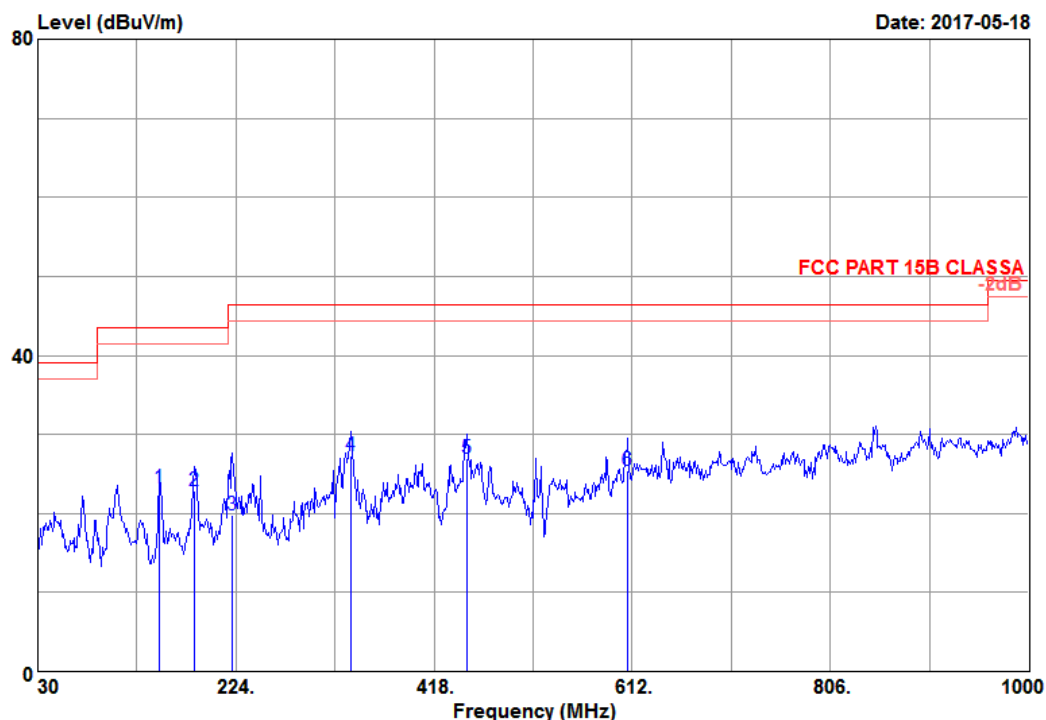


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Data: 31

File: G:\TEST DATA\2017\Report\4IC1W1704055.EM6 (68)

Date: 2017-05-18



Site NO. : NO.1 10m Chamber
Dis. / Ant. : 10m 9168(704)-160720-H
Limit : FCC PART 15B CLASS A
Env. / Ins. : 18.7°C 57%/ESCI
EUT : POS Terminal
M/N : BEETLE /iPOS plus Advanced
Power Rating : 120V/60Hz
Test Mode : Full System
Memo : Configuration 1

Ant. pol. : HORIZONTAL
Engineer : King

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 149.34 | 19.16 | 1.41 | 2.66 | 23.23 | 43.50 | 20.27 | QP |
| 2 | 183.27 | 17.09 | 1.56 | 4.29 | 22.94 | 43.50 | 20.56 | QP |
| 3 | 220.71 | 15.85 | 1.72 | 2.16 | 19.73 | 46.40 | 26.67 | QP |
| 4 | 336.54 | 20.11 | 2.16 | 5.09 | 27.36 | 46.40 | 19.04 | QP |
| 5 | 450.03 | 22.87 | 2.53 | 1.58 | 26.98 | 46.40 | 19.42 | QP |
| 6 | 607.98 | 25.83 | 3.06 | -3.45 | 25.44 | 46.40 | 20.96 | QP |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

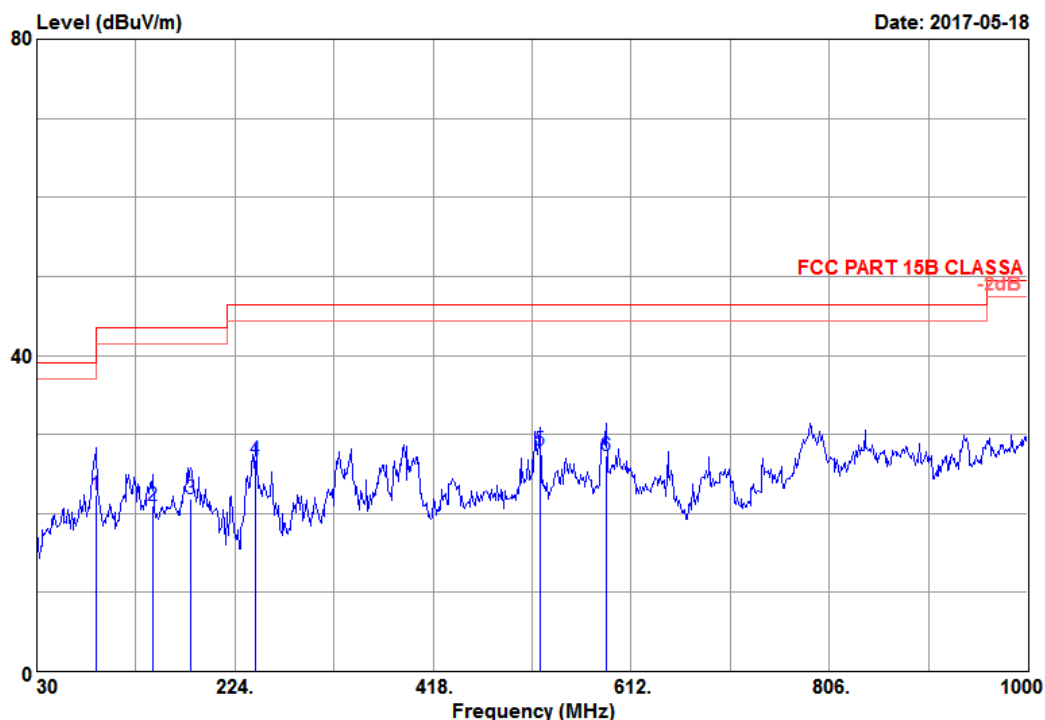


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Data: 32

File: G:\TEST DATA\2017\Report\4IC1W1704055.EM6 (68)

Date: 2017-05-18



Site NO. : NO.1 10m Chamber
 Dis. / Ant. : 10m 9168(703)-160720-V
 Limit : FCC PART 15B CLASS A
 Env. / Ins. : 18.7°C 57%/ESCI
 EUT : POS Terminal
 M/N : BEETLE /iPOS plus Advanced
 Power Rating : 120V/60Hz
 Test Mode : Full System
 Memo : Configuration 1

Ant. pol. : VERTICAL
 Engineer : King

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|---|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 88.50 | 13.49 | 0.87 | 7.96 | 22.32 | 43.50 | 21.18 | QP |
| 2 | 143.49 | 18.82 | 1.11 | 1.04 | 20.97 | 43.50 | 22.53 | QP |
| 3 | 180.93 | 17.52 | 1.26 | 3.01 | 21.79 | 43.50 | 21.71 | QP |
| 4 | 244.11 | 17.33 | 1.47 | 7.91 | 26.71 | 46.40 | 19.69 | QP |
| 5 | 522.57 | 23.92 | 2.19 | 1.84 | 27.95 | 46.40 | 18.45 | QP |
| 6 | 588.09 | 25.09 | 2.35 | -0.10 | 27.34 | 46.40 | 19.06 | QP |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

5.5.2 For Above 1GHz Frequency Range

The details of test modes and reference test data are as follows:

Test Date: May 22, 2017 Temperature: 18.7°C Humidity: 57%

| Item | Test Condition | Reference Test Data No. | |
|------|-------------------------------|-------------------------|----------|
| | | Horizontal | Vertical |
| 1 | Full System (Configuration 1) | # 66 | # 65 |

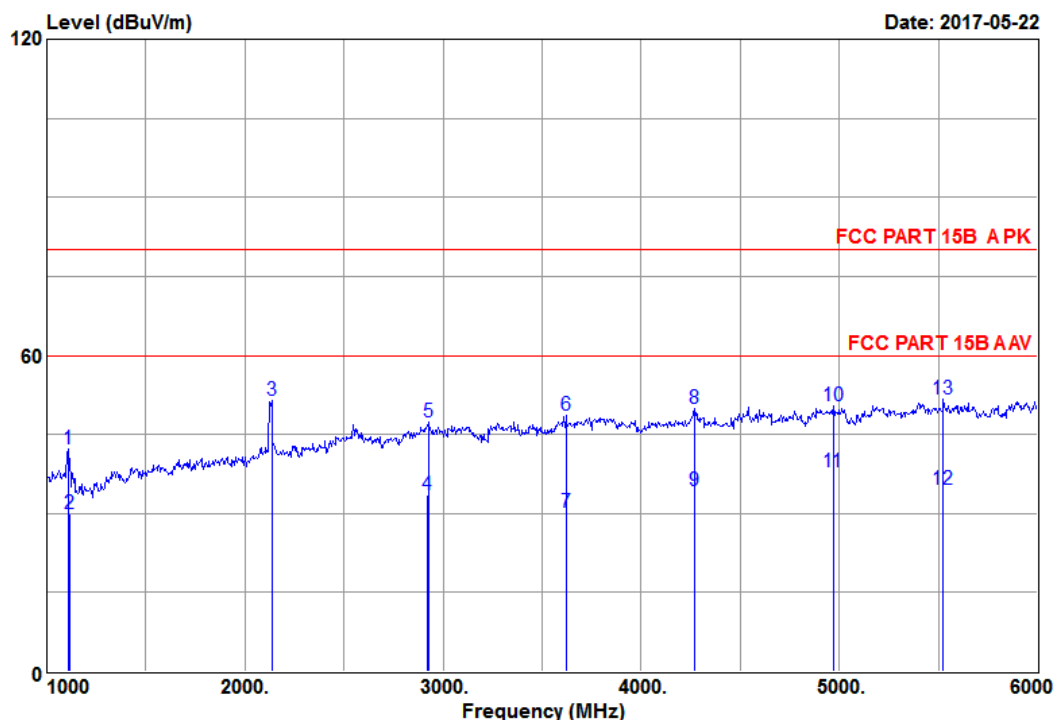


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Data: 66

File: G:\TEST DATA\2017\Report\4\IC1W1704055.EM6 (68)

Date: 2017-05-22



Site NO. : NO.1 10m Chamber
Dis. / Ant. : 3m 3115-62960-160707
Limit : FCC PART 15B A PK
Env. / Ins. : 18.7°C 57%/N9030A
EUT : POS Terminal
M/N : BEETLE /iPOS plus Advanced
Power Rating : 120V/60Hz
Test Mode : Full System
Memo : Configuration 1

Ant. pol. : HORIZONTAL
Engineer : King

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Preamp Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|----|----------------|--------------------------|-----------------------|-------------------|--------------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 1110.00 | 23.75 | 3.55 | 49.74 | 34.86 | 42.18 | 80.00 | 37.82 | Peak |
| 2 | 1112.53 | 23.81 | 3.55 | 37.42 | 34.83 | 29.95 | 60.00 | 30.05 | Average |
| 3 | 2135.00 | 27.89 | 5.07 | 52.00 | 33.55 | 51.41 | 80.00 | 28.59 | Peak |
| 4 | 2923.66 | 29.82 | 6.01 | 30.91 | 33.23 | 33.51 | 60.00 | 26.49 | Average |
| 5 | 2925.00 | 29.82 | 6.01 | 44.71 | 33.23 | 47.31 | 80.00 | 32.69 | Peak |
| 6 | 3620.00 | 31.67 | 6.71 | 43.26 | 32.95 | 48.69 | 80.00 | 31.31 | Peak |
| 7 | 3622.55 | 31.67 | 6.71 | 24.65 | 32.95 | 30.08 | 60.00 | 29.92 | Average |
| 8 | 4270.00 | 32.39 | 7.29 | 42.93 | 32.70 | 49.91 | 80.00 | 30.09 | Peak |
| 9 | 4271.54 | 32.39 | 7.29 | 27.26 | 32.70 | 34.24 | 60.00 | 25.76 | Average |
| 10 | 4970.00 | 33.46 | 7.89 | 41.49 | 32.46 | 50.38 | 80.00 | 29.62 | Peak |
| 11 | 4971.09 | 33.46 | 7.89 | 28.92 | 32.46 | 37.81 | 60.00 | 22.19 | Average |
| 12 | 5523.88 | 34.21 | 8.35 | 24.20 | 32.27 | 34.49 | 60.00 | 25.51 | Average |
| 13 | 5525.00 | 34.21 | 8.35 | 41.42 | 32.27 | 51.71 | 80.00 | 28.29 | Peak |

Remarks:

- 1.Emission Level= Antenna factor + Cable loss + Reading-Preamp Factor
- 2.The emission level that are 20dB below the official limit are not reported

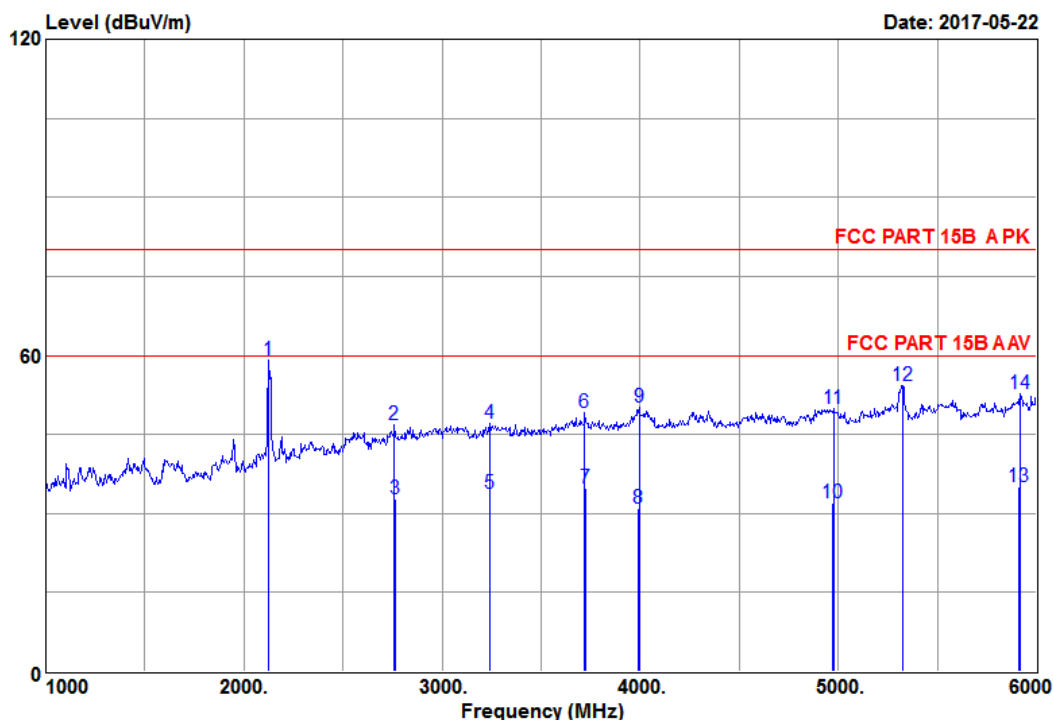


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Data: 65

File: G:\TEST DATA\2017\Report\4\C1W1704055.EM6 (68)

Date: 2017-05-22



Site NO. : NO.1 10m Chamber
Dis. / Ant. : 3m 3115-62960-160707
Limit : FCC PART 15B A PK
Env. / Ins. : 18.7°C 57%/N9030A
EUT : POS Terminal
M/N : BEETLE /iPOS plus Advanced
Power Rating : 120V/60Hz
Test Mode : Full System
Memo : Configuration 1

Ant. pol. : VERTICAL
Engineer : King

| | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Preamp Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|----|----------------|--------------------------|-----------------------|-------------------|--------------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2125.00 | 27.84 | 5.04 | 59.72 | 33.55 | 59.05 | 80.00 | 20.95 | Peak |
| 2 | 2760.00 | 29.49 | 5.82 | 44.76 | 33.30 | 46.77 | 80.00 | 33.23 | Peak |
| 3 | 2762.55 | 29.49 | 5.82 | 30.68 | 33.29 | 32.70 | 60.00 | 27.30 | Average |
| 4 | 3240.00 | 30.68 | 6.34 | 43.19 | 33.10 | 47.11 | 80.00 | 32.89 | Peak |
| 5 | 3242.55 | 30.68 | 6.34 | 29.86 | 33.10 | 33.78 | 80.00 | 26.22 | Average |
| 6 | 3720.00 | 31.89 | 6.81 | 43.29 | 32.91 | 49.08 | 80.00 | 30.92 | Peak |
| 7 | 3723.12 | 31.89 | 6.81 | 28.92 | 32.91 | 34.71 | 60.00 | 25.29 | Average |
| 8 | 3992.51 | 32.50 | 7.06 | 24.28 | 32.80 | 31.04 | 60.00 | 28.96 | Average |
| 9 | 3995.00 | 32.50 | 7.06 | 43.32 | 32.80 | 50.08 | 80.00 | 29.92 | Peak |
| 10 | 4973.56 | 33.46 | 7.89 | 23.13 | 32.46 | 32.02 | 60.00 | 27.98 | Average |
| 11 | 4975.00 | 33.46 | 7.89 | 40.91 | 32.46 | 49.80 | 80.00 | 30.20 | Peak |
| 12 | 5325.00 | 33.94 | 8.19 | 44.51 | 32.34 | 54.30 | 80.00 | 25.70 | Peak |
| 13 | 5913.26 | 34.37 | 8.69 | 24.21 | 32.13 | 35.14 | 60.00 | 24.86 | Average |
| 14 | 5915.00 | 34.37 | 8.69 | 41.72 | 32.13 | 52.65 | 80.00 | 27.35 | Peak |

Remarks:

- 1.Emission Level= Antenna factor + Cable loss + Reading-Preamp Factor
- 2.The emission level that are 20dB below the official limit are not reported

6 DEVIATION TO TEST SPECIFICATIONS

【NONE】