Verification of Compliance

Seme care care care care

| Product Name | : | 12.1" Fanless Touch Panel PC |
|----------------------|---|---|
| Brand Name | : | AAEON |
| Model Number | : | AHP-1123HTT-A1-1010, xxxxxAHP-1123xxx-xxxxxxx |
| | | (Where x maybe is 0-9 \ A-Z \ a-z \ - \ blank) |
| Applicant | : | AAEON Technology Inc. |
| Address | : | 5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien Dist., |
| | | New Taipei City 23145, Taiwan, R.O.C |
| Report Number | : | F-A600-1402-266 |
| Issue Date | : | March 18, 2014 |
| | | |
| Applicable Standards | : | FCC Part 15, Subpart B Class A ITE ANSI C63.4:2009 Industry Canada ICES-003 Issue 5 CSA-IEC CISPR22-10 Class A ITE |

One sample of the designated product has been tested in our laboratory and found to be in compliance with the FCC rules cited above.





NVLAP LAB CODE 200575-0

TAF 0905 FCC CAB Code TW1053 IC Code 4699A VCCI Accep. No. R-1527, C-1609, T-1441, G-10, C-4400, T-1334, G-614



Central Research Technology Co. **EMC** Test Laboratory 11, Lane41, Fushuen St., Jungshan Chiu, Taipei, Taiwan, 104, R.O.C. Tel: 886-2-25984568 Fax: 886-2-25984546

J. Y. Leh

(Tsun-Yu Shih/ General Manager) Date: March 18, 2014

FCC Test Report

for

12.1 " Fanless Touch Panel PC

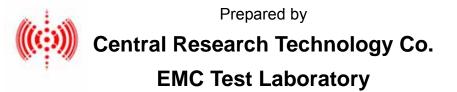
| Trade Name | : | AAEON |
|-----------------|---|-------------------------------------|
| Model Number | : | AHP-1123HTT-A1-1010, |
| | | xxxxxxAHP-1123xxx-xxxxxxxx (Where x |
| | | maybe is 0-9、A-Z、a-z、 – 、 blank) |
| Report Number | : | F-A600-1402-266 |
| Date of Receipt | : | March 3, 2014 |
| Date of Report | : | March 18, 2014 |

Prepared for

AAEON Technology Inc.

5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien Dist., New Taipei City 23145,

Taiwan, R.O.C



11, Lane 41, Fushuen St., Jungshan Chiu, Taipei, Taiwan, 104, R.O.C.



NVLAP LAB CODE 200575-0

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Verification of Compliance

| Equipment Under Test | : 12.1 " Fanless Touch Panel PC |
|----------------------|--|
| Model No. | : AHP-1123HTT-A1-1010, xxxxxxAHP-1123xxx-xxxxxxxx |
| | (Where x maybe is 0-9、A-Z、a-z、 – 、 blank) |
| Applicant | : AAEON Technology Inc. |
| Address | : 5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien Dist., |
| | New Taipei City 23145, Taiwan, R.O.C |
| Applicable Standards | : FCC Part 15, Subpart B Class A ITE |
| | ANSI C63.4:2009 |
| | Industry Canada ICES-003 Issue 5 |
| | CSA-IEC CISPR22-10 Class A ITE |
| | HC |

| Date of Testing | : March 4~7, 2014 |
|--------------------------|----------------------|
| Deviation | : N/A |
| Condition of Test Sample | : Engineering Sample |

We, **Central Research Technology Co**., hereby certify that one sample of the designated product was tested in our facility during the period mentioned above. The test records, data evaluation and Equipment Under Test (EUT) configurations shown in the present report are true and accurate representation of the measurements of the sample's EMC characteristics under the conditions herein specified.

The test results show that the EUT as described in the present report is in compliance with the requirements set forth in the standards mentioned above and apply to the tested sample identified in the present report only. The test report shall not be reproduced, except in its entirety, without the written approval of Central Research Technology Co.

| PREPARED BY | : | Ins C (Iris Chen/Syste | em Executive) | [,] DATE: | March 18, 2014 |
|-------------|---|---------------------------|------------------------|--------------------|----------------|
| APPROVED BY | : | T. Y. (Tsun-Yu Shih/C | LiL_ General Manage | _ • DATE : | Mar. 18, 2014 |

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1. General Description

1.1 General Description of EUT

| Equipment Under Test | : 12.1 " Fanless Touch Panel PC | | | | |
|-----------------------------|--|--|--|--|--|
| Model No. | : AHP-1123HTT-A1-1010, | | | | |
| | xxxxxxAHP-1123xxx-xxxxxxxx (Where x maybe is | | | | |
| | 0-9、A-Z、a-z、-、 blank) | | | | |
| Power in | : Supplied by the power adapter | | | | |
| Power Adapter Specification | : Trade Name : FSP | | | | |
| | Model No. : FSP060-DBAE1 | | | | |
| | Input : 100-240V~ 1.5A, 50-60Hz | | | | |
| | Output : 12Vdc, 5A Max | | | | |
| Highest Operating Frequency | : 1.8GHz from the test specification | | | | |
| Manufacturer | : AAEON Technology Inc. | | | | |
| Function Description | : | | | | |

The EUT is an engineering sample of the 12.1 " Fanless Touch Panel PC. Please refer to the user's manual for the details.

The I/O ports of EUT are listed below:

| No. | I/O Port Type | Quantity |
|-----|---------------|----------|
| 1 | RS232 port | 4 |
| 2 | USB port | 4 |
| 3 | LAN port | 2 |
| 4 | D-Sub port | 1 |

1.2 Test Mode

The EUT and its D-Sub output with Resolution 1024*768@75Hz was selected by its manufacturer to perform all tests. It was taken as the representative condition for testing and its data are recorded in the present document.

It is the normal operation mode of the EUT from the test specification.

1.3 Applied standards

According to the specifications of the manufacturer and the requirements set in 47CFR Part 15, the applied standards to evaluate the compliance of the EUT are as following, and the measurement procedures specified in ANSI C63.4: 2009 are performed.

According to 47CFR Part 15 Section 15.33(b), the test frequency range of radiated emission measurements are listed below and the EUT herein shall be tested as:

| Type of EUT | Highest frequency generated or used in the device or on which the device operates or tunes (MHz) | Upper frequency of measurement range (MHz) |
|-------------|---|--|
| | Below 1.705 | 30 |
| | 1.705 - 108 | 1000 |
| | 108 - 500 | 2000 |
| | 500 - 1000 | 5000 |
| Ø | Above 1000 | 5 th harmonic of the highest frequency or 40GHz, whichever is lower |

All the test items are as following:

| Applied Standards | Test Items | Results |
|---------------------------------------|----------------------------------|---------|
| FCC Part 15, Subpart B Class A ITE | ☑ Conducted Emission Measurement | PASS |
| | ☑ Radiated Emission Measurement | PASS |

1.4 Test Setup for the EUT

The EUT is an unique unit connected with other necessary accessories and support units listed in the next section. It has been tested against each standard after the following steps:

- a. Connect the EUT and all the support units to the appropriate power source.
- b. Turn on the EUT and all the accessories and support units.
- c. The EUT load an EMC test software and execute it under the Windows environment.
- d. The EUT sends "H" patterns to the screen and monitor continuously.
- e. The EUT reads/writes messages from/to USB Flash Disk continuously.
- f. The EUT sends message to modem.
- g. Another PC sends/receives messages to/from the EUT through a Hub by executing the command of "PING".
- h. Repeat and keep the setup steps listed above before and during all tests.

| EUT I/O ports / Peripherals | Exerciser Program (software) | Version of Program | |
|-----------------------------|---------------------------------|--------------------|--|
| EUT | | | |
| Monitor | BurnIn Test.exe | V 7.1 | |
| USB Flash Disk | | | |
| Modem | | | |

1.5 The Support Units

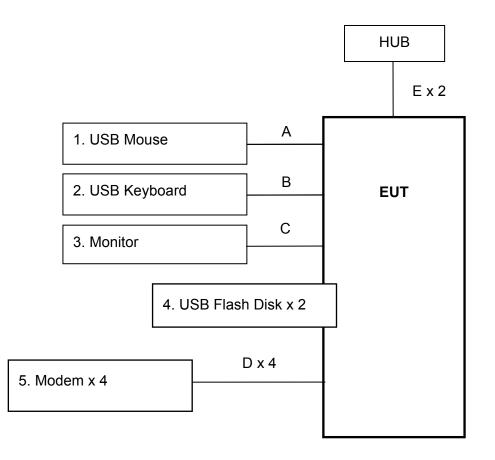
Conducted Emission Test

| No. | Unit | Model No. | FCC ID | Trade Name | Power Cord | Supported by lab. |
|-----|----------------|-----------|------------|---------------|---------------|-------------------|
| 1 | USB Mouse | MO56UC | DoC | DELL | N/A | ~ |
| 2 | USB Keyboard | SK-8115 | DoC | DELL | N/A | ~ |
| 3 | Monitor | U2410 | DoC | DELL | 1.8m | ~ |
| 4 | USB Flash Disk | U172 | DoC | PQI | N/A | ~ |
| 5 | Modem | DM-1414 | IFAXDM1414 | ACEEX | 1.8m | ~ |

Radiated Emission Test

| No. | No. Unit | t Model No. | FCC ID | Trade | Power | Supported |
|-----|----------------|-------------|------------|-------|-------|--------------|
| | onic | | 10010 | Name | Cord | by lab. |
| 1 | USB Mouse | M-UAE DEL7 | N/A | DELL | N/A | \checkmark |
| 2 | USB Keyboard | KB212-B | DoC | DELL | N/A | ✓ |
| 3 | Monitor | U2410 | DoC | DELL | 1.8m | ✓ |
| 4 | USB Flash Disk | U172 | DoC | PQI | N/A | ✓ |
| 5 | Modem | DM-1414 | IFAXDM1414 | ACEEX | 1.8m | \checkmark |

1.6 Layout of the Setup



Connecting Cables :

| No. | Cable | Length | Shielded | Core | Shielded Backshell | Supported by lab. | Note |
|-----|--------------------|--------|----------|------|-----------------------|-------------------|---------|
| А | USB Mouse Cable | 1.8m | ~ | | | \checkmark | |
| В | USB Keyboard Cable | 1.8m | ✓ | | | ~ | |
| С | D-Sub Cable | 1.7m | ~ | ✓ | | ~ | 2 cores |
| D | Modem Cable | 1.8m | ~ | ✓ | | ~ | 2 cores |
| Е | LAN Cable | 1.8m | | | | ~ | |

1.7 Test Capability

Test Facility

The test facility used for evaluating the conformance of the EUT with each standard in the present report meets what required in CISPR16-1-4, CISPR16-2-3 and ANSI C63.4: 2009.

| Test Room | Type of Test Room | Descriptions |
|-----------|---|--|
| TR1 | 10m semi-anechoic chamber ($23m \times 14m \times 9m$) | Complying with the NSA and the site VSWR requirements in documents |
| TR1 | $3m$ fullly-anechoic chamber (2 $3m \times 14m \times 9m$) | CISPR 22 and ANSI C63.4: 2009. for the radiated emission measurement. |
| TR11 | 3m semi-anechoic chamber (9m × 6m × 6m) | Complying with the NSA requirements in documents CISPR 22 for the radiated emission measurement. |
| TR5 | Shielding Room (8m × 5m × 4m) | For the conducted emission |
| TR4 | Shielding Room (5m×3m×3m) | measurement. |

Test Laboratory Competence Information

Central Research Technology Co. has been accredited / filed / authorized by the agencies listed in the following table.

| Certificate | Nation | Agency | Code | Mark |
|------------------------------|--------------------|--------|---|-------------------------------|
| | USA | NVLAP | 200575-0 | ISO/IEC 17025 |
| | R.O.C. (Taiwan) | TAF | 0905 | ISO/IEC 17025 |
| Accreditation Certificate | R.O.C. (Taiwan) | BSMI | SL2-IN-E-0033, SL2-IS-E-0033, SL2-R1/R2-E-0033, SL2-A1-E-0033 SL2-L1-E-0033 | ISO/IEC 17025 |
| | USA | FCC | 474046,TW1053 | Test facility list & NSA Data |
| Site Filing Document | Canada | IC | 4699A-1,-3 | Test facility list & NSA Data |
| | Japan | VCCI | R-1527,C-1609, C-4400, T-1441, T-1334, G-10, G-614 | Test facility list & NSA Data |
| Authorization | Germany | TUV | 10021687 | ISO/IEC 17025 |
| Certificate | Norway | Nemko | ELA 212 | ISO/IEC 17025 |

The copy of each certificate can be downloaded from our web site: www.crc-lab.com

2. Conducted Emission Measurement

Test Result : PASS

2.1 Limits for Emission Measurement

☑ Limits for conducted disturbances at the power mains

| Frequency (MHz) | Class A Equipment | | Class B E | quipment | | | | | |
|---|-------------------|---------|------------|-------------------------------|--|--|--|--|--|
| | Quasi-peak | Average | Quasi-peak | Average | | | | | |
| (1011 12) | (dBµV) | (dBµV) | (dBµV) | (dBµV) | | | | | |
| 0.15 to 0.5 | 79 | 66 | 66 – 56 | 56 – 46 | | | | | |
| 0.5 to 5 | 73 | 60 | 56 | 46 | | | | | |
| 5 to 30 | 73 | 60 | 60 | 50 | | | | | |
| Note 1- The lower limit shall apply at the transition frequency. | | | | | | | | | |
| Note 2- The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to | | | | | | | | | |
| 0.5MHz for Cla | ass B equipment. | | | 0.5MHz for Class B equipment. | | | | | |

2.2 Test Instruments

| Test Site and | Manufacturer | Model No./ | Last | Calibration | |
|----------------------|--------------|-------------------|-------------------------|----------------|--|
| Equipment | Manufacturer | Serial No. | Calibration Date | Due Date | |
| Test Receiver | R&S | ESCS 30/ | Jan. 15, 2014 | lon 15 2015 | |
| iest Receiver | κασ | 836858/021 | Jan. 15, 2014 | Jan. 15, 2015 | |
| LISN | R&S | ESH2-Z5/ | March 15, 2013 | March 15, 2014 | |
| LIGIN | Γασ | 880669/039 | Warch 15, 2015 | Walch 15, 2014 | |
| 2 nd LISN | R&S | ENV4200/ | March 29, 2013 | March 20, 2014 | |
| 2 LIGIN | Rao | 833209/010 | Warch 29, 2013 | March 29, 2014 | |
| 50Ω terminator | N/A | N/A/ | Aug 10 2012 | Aug 10 2014 | |
| | IN/A | 001 | Aug. 19, 2013 | Aug. 19, 2014 | |
| RF Switch | R&S | RSU28/ | Feb. 7, 2014 | | |
| RF SWIICH | Rao | 338965/002 | Feb. 7, 2014 | Aug. 7, 2014 | |
| RF Cable | N/A | N/A/ | Feb. 7, 2014 | Aug. 7, 2014 | |
| RF Cable | IN/A | C0052 ~ 56 | Feb. 7, 2014 | Aug. 7, 2014 | |
| Test Software | Audix | e3/ | NCR | NCR | |
| | Auuix | Ver. 5.2004-2-19k | NCK | NUK | |
| TR5 | ETS | TR5/ | NCR | NCR | |
| shielded room | LINDGREN | 15353-F | | NUK | |

Note:

1. The calibrations are traceable to NML/ROC.

2. NCR : No Calibration Required.

Measurement Uncertainty

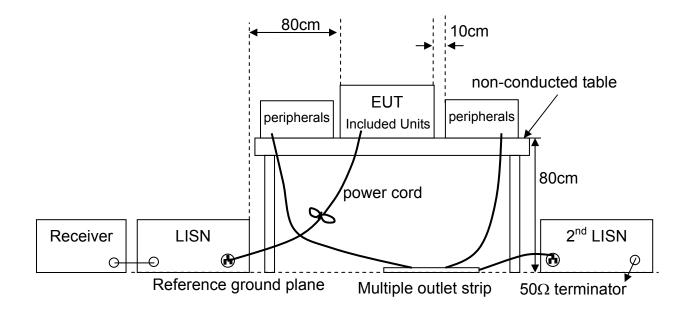
The assessed measurement uncertainty with a suitable coverage factor K to ensure 95% confidence level for the normal distribution are shown as below, the values are less than U_{cispr} in table 1 of CISPR 16-4-2.

| Equipment | Model Number | Uncertainty Value |
|-----------|--------------|-------------------|
| LISN | ESH2-Z5 | 3.0dB |
| LISIN | ENV 4200 | 3.0dB |

2.3 Test Procedures

- a. The EUT was set up per the test configuration figured in the next section of this chapter to simulate the typical usage per the user's manual.
- b. If the EUT is tabletop equipment, it was placed on a non-conducted table with a height of 0.8 meters above the reference ground plane and 0.4 meters from the conducting wall of the shielded room. Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height of 12 millimeters above the reference ground plane.
- c. Connect the EUT's power source to the appropriate power mains through the LISN.
- d. All the other peripherals are connected to the 2nd LISN, if any.
- e. The LISN was placed 0.8 meters from the EUT and at least 0.8 meters from other units and other metal planes.
- f. Measure the conducted emissions on each power line (Neutral Line and Line 1 Hot side) of the EUT's power source by using the test receiver connected to the coupling RF output port of LISN.
- g. Rapidly scan the signal from 150kHz to 30MHz by using the receiver through the Maximum-Peak detector to determine those frequencies associated with higher emission levels for each measured line.
- h. Then measure the maximum level of conducted disturbance for each frequency found from step g. by using the receiver through the Quasi-Peak and Average detectors per CISPR 16-1.
- i. Record the level for each frequency and compare with the required limit.

2.4 Test Configurations



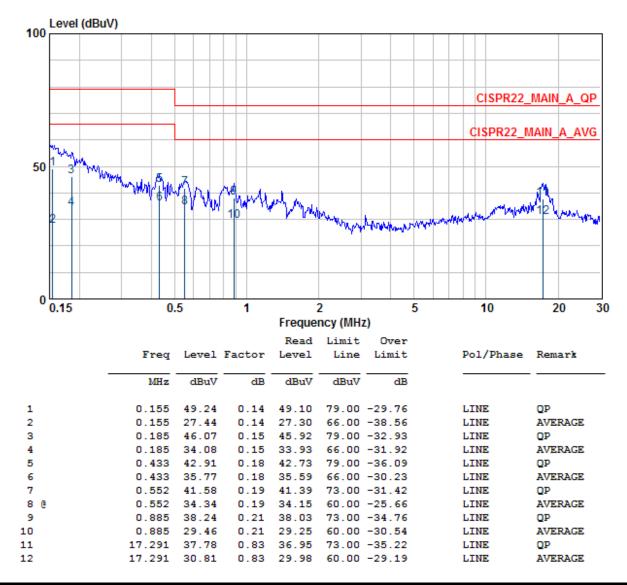
2.5 Photographs of the Test Configurations





2.6 Test Results

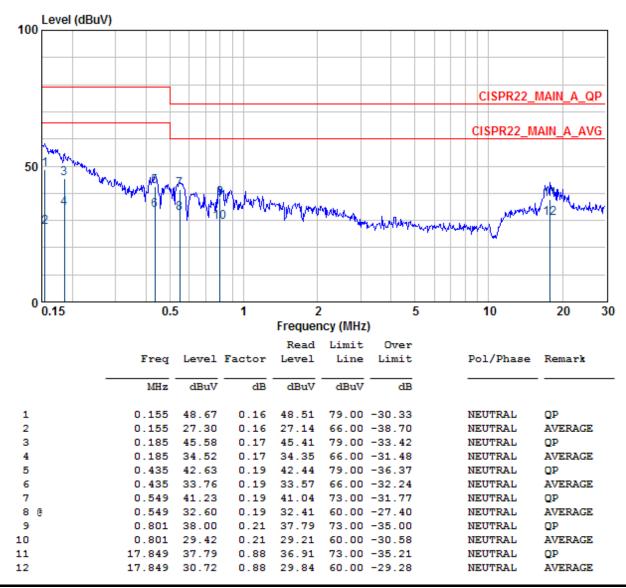
| Test Mode | : | Normal | | | |
|--------------|---|--------------------------------|-----------------|---|--------------|
| Test Voltage | : | 120V/60Hz to the power adapter | | | |
| Tester | : | Kent | Temperature | : | 23°C |
| Humidity | : | 59%RH | Frequency Range | : | 150kHz~30MHz |
| IF Bandwidth | : | 9kHz | Phase | : | Line |



Note:

- 1. Emission Level = reading value + correction factor.
- 2. Correction factor = cable loss + insertion loss of LISN.
- 3. Q.P. is abbreviation of quasi-peak.

| Test Mode | : | Normal | | | |
|--------------|---|--------------------------------|-----------------|---|--------------|
| Test Voltage | : | 120V/60Hz to the power adapter | | | |
| Tester | : | Kent | Temperature | : | 23°C |
| Humidity | : | 59%RH | Frequency Range | : | 150kHz~30MHz |
| IF Bandwidth | : | 9kHz | Phase | : | Neutral |



Note:

- 1. Emission Level = reading value + correction factor.
- 2. Correction factor = cable loss + insertion loss of LISN.
- 3. Q.P. is abbreviation of quasi-peak.

3. Radiated Emission Measurement

Test Result : PASS

3.1 Limits for Emission Measurement

☑ Limits for radiated disturbances below 1000MHz

| Frequency | Class A Equipment (10m distance) | Class B Equipment (3m distance) | | | |
|--|--|------------------------------------|--|--|--|
| (MHz) | Quasi-peak | Quasi-peak | | | |
| | (dBµV/m) | (dBµV/m) | | | |
| 30 to 88 | 39.1 | 40 | | | |
| 88 to 216 | 43.5 | 43.5 | | | |
| 216 to 960 | 46.4 | 46 | | | |
| 960 to 1000 | 49.5 | 54 | | | |
| Note 1- The lower limi | t shall apply at the transition frequency. | | | | |
| Note 2- Additional pro | visions may be required for cases where | e interference occurs. | | | |
| Note 3- According to 7 | Note 3- According to 15.109(g), as an alternative to the radiated emission limits shown above, digital | | | | |
| devices may be shown to comply with the standards (CISPR), Pub. 22 shown as below. | | | | | |
| 30 to 230 | 40 | 30 | | | |
| 230 to 1000 | 47 | 37 | | | |

☑ Limits for radiated disturbances above 1000MHz at a measuring distance of 3m

| Frequency | Class A Ec | quipment | Class B Equipment | |
|--------------------|------------|----------|-------------------|----------|
| Frequency (GHz) | Peak | Average | Peak | Average |
| (GLIZ) | (dBµV/m) | (dBµV/m) | (dBµV/m) | (dBµV/m) |
| 1 to 40 | 80 | 60 | 74 | 54 |

3.2 Test Instruments

☑ Below 1GHz measurement

| Test Site and | Manufacturer | Model No./ | Last | Calibration |
|--------------------------------|------------------|------------------------|-------------------------|-----------------|
| Equipment | Manufacturer | Serial No. | Calibration Date | Due Date |
| EMI Test Receiver | R&S | ESCS 30/ 836858/020 | Sept. 9, 2013 | Sept. 9, 2014 |
| Broadband Antenna | R&S | HL-562/ 360543/007 | March 27, 2013 | March 27, 2014 |
| Broadband Antenna | R&S | HL-562/ 830547/010 | April 30, 2013 | April 30, 2014 |
| Pre-Amplifier | Mini Circuit | ZKL-2/ 001 | Jan. 14, 2014 | July 14, 2014 |
| Pre-Amplifier | Mini Circuit | ZKL-2/ 002 | Jan. 14, 2014 | July 14, 2014 |
| Spectrum Analyzer | R&S | FSP7/ 100108 | August 19, 2013 | August 19, 2014 |
| Spectrum Analyzer | R&S | FSP40/ 100031 | July 15, 2013 | July 15, 2014 |
| RF Cable | JYEBAO | 0214/ C0049 | Jan. 14, 2014 | July 14, 2014 |
| RF Cable | JYEBAO | 0214/ C0050 | Jan. 14, 2014 | July 14, 2014 |
| Test Software | Audix | e3/ Ver. 4.3.714.e | NCR | NCR |
| TR1 Semi - anechoic Chamber | ETS. LINDGREN | TR1/ 17627-B | May 4, 2013 | May 4, 2014 |

Note:

1. The calibrations are traceable to NML/ROC.

- 2. NCR : No Calibration Required.
- 3. The calibration date of the chamber TR1 listed above is the date of NSA measurement.

☑ Above 1GHz measurement (TR1)

| Test Site and Equipment | Manufacturer | | Model No./ Serial No. | Last Calibration Date | Calibration Due Date |
|---------------------------------|------------------|----------------------------------|---|--------------------------|-------------------------|
| Horn Antenna | EMCO | 3117/ 00082847 | | Nov. 20, 2013 | Nov. 20, 2014 |
| Bore-sight Antenna Mast | Sunol | TLT2/ 051110-5 | | NCR | NCR |
| | KMIC | | KMA010180A01/ 99056 | Oct. 17, 2013 | Oct. 17, 2014 |
| Pre-Amplifier | MITEQ | | JS4-00101800- 28-10P/742229 | Dec. 12, 2013 | Dec. 12, 2014 |
| | | Ø | JS4-00101800- 28-10P/ 1498979 ^(Note 4) | Dec. 9, 2013 | Dec. 9, 2014 |
| Spectrum Analyzer | R&S | FSP40/ 100031 | | July 15, 2013 | July 15, 2014 |
| RF Cable | Suhner | Sucoflex 106P / C0091 + C0092 | | Oct. 14, 2013 | April 14, 2014 |
| Test Software | Audix | e3/ Ver. 4.3.714.e | | NCR | NCR |
| TR1 Fully - anechoic Chamber | ETS. LINDGREN | | TR1/ 17627-B | Feb. 23, 2014 | Feb. 23, 2015 |

Note:

- 1. The calibrations are traceable to NML/ROC.
- 2. NCR : No Calibration Required.
- 3. The calibration date of the chamber TR1 listed above is the date of site VSWR measurement.
- 4. Used for 6~18GHz measurement.

Measurement Uncertainty

The assessed measurement uncertainty with a suitable coverage factor K to ensure 95% confidence level for the normal distribution are shown as below, the values are less than U_{cispr} in table 1 of CISPR 16-4-2.

| Test Site | Polarization | Frequency Range | | | |
|----------------------|--------------|-----------------|-----------------|--|--|
| (Measuring distance) | r olanzation | 30MHz ~200MHz | 200MHz ~1000MHz | | |
| TR1(10m) | Horizontal | 3.9dB | 3.7dB | | |
| | Vertical | 3.7dB | 3.9dB | | |
| TR11(3m) | Horizontal | 3.3dB | 3.8dB | | |
| | Vertical | 4.1dB | 5.1dB | | |

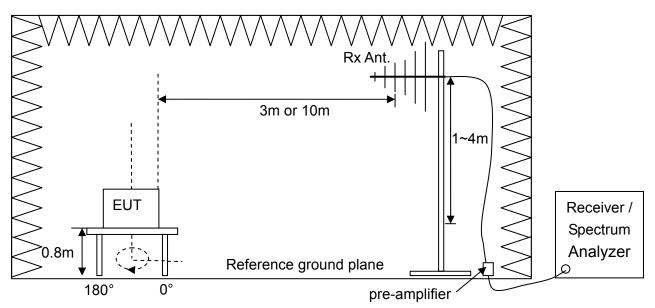
| Test Site | Polarization | Frequency Range | | |
|--|---------------|-----------------|------------|--|
| (Measuring distance) | r olarization | 1GHz~6GHz | 6GHz~18GHz | |
| TR1(3m) | Horizontal | 4.8dB | 4.9dB | |
| in the design of | Vertical | 4.8dB | 4.8dB | |

3.3 Test Procedures

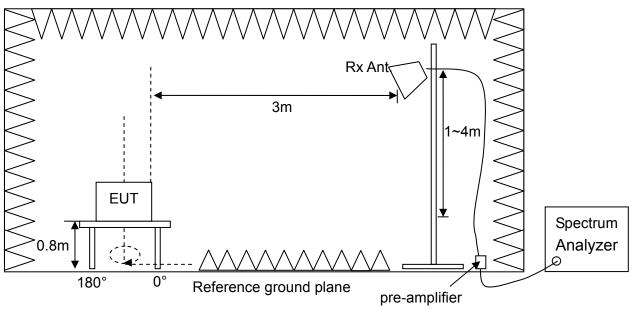
- a. The EUT was set up per the test configuration figured in the next section of this chapter to simulate the typical usage per the user's manual.
- b. If the EUT is tabletop equipment, it was placed on a non-conducted table with a height of 0.8 meters above the reference ground plane in the semi-anechoic chamber. If the EUT is floor-standing equipment, it was placed on a non-conducted support with a height of 12 millimeters above the reference ground plane in the semi-anechoic chamber.
- c. For the measurement of frequency below 1000MHz, the EUT was set 10m away from the interference receiving antenna for the limit of Class A equipment or CISPR 22. For Class B equipment and the measurement of frequency above 1000MHz, the EUT was set 3m away from the interference receiving antenna.
- d. Rapidly sweep the signal in the test frequency range by using the spectrum through the Maximum-peak detector.
- e. Rotate the EUT from 0° to 360° and position the receiving antenna at heights from 1 to 4 meters above the reference ground plane continuously to determine at least six frequencies associated with higher emission levels and record them.
- f. For measurement of frequency above 1000MHz, the beamwidth of receiving horn antenna should keep covering EUT when the receiving horn antenna height varied.
- g. Then measure each frequency found from step e. by using the spectrum with rotating the EUT and positioning the receiving antenna height to determine the maximum level.
- h. Finely tune the antenna and turntable around the recorded position of each frequency found from step f.
- i. For measurement of frequency below 1000MHz, set the receiver detector to be Quasi-Peak per CISPR 16-1 to find out the maximum level occurred.
- j. For measurement of frequency above 1000MHz, set the spectrum detector to be Peak or Average to find out the maximum level occurred, if any.
- k. Record frequency, azimuth angle of the turntable, height, and polarization of the receiving antenna and compare the maximum level with the required limit.
- I. Change the receiving antenna to another polarization to measure radiated emission by following step d. to k. again.
- m. If the peak emission level measured from step e. is 4dB lower than the limit specified, then the emission values presented will be the peak value only. Otherwise, accurate Q.P. value will be measured and presented.

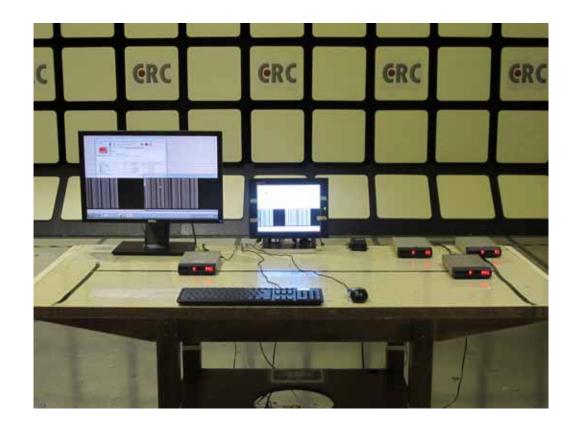
3.4 Test Configurations

Radiated Emission Measurement below 1000MHz



Radiated Emission Measurement above 1000MHz





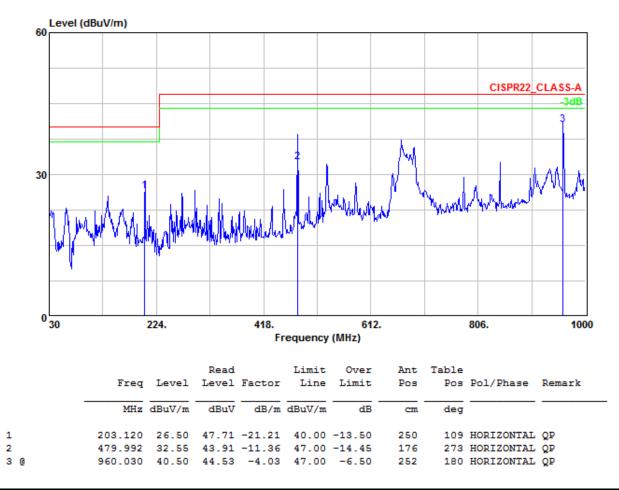
3.5 Photographs of the Test Configurations



3.6 Test Results

Radiated Emission Measurement below 1000MHz

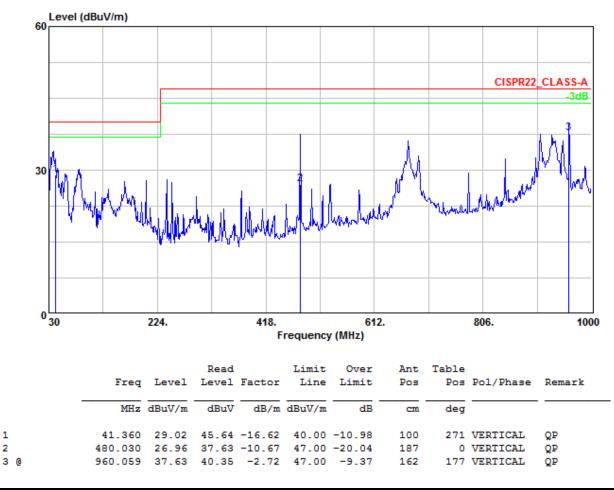
| Test Mode | : | Normal | | | |
|--------------|---|--------------------------------|-----------------|---|------------|
| Test Voltage | : | 120V/60Hz to the power adapter | | | |
| Tester | : | Meng | Temperature | : | 22°C |
| Humidity | : | 71%RH | Frequency Range | : | 30MHz~1GHz |
| IF Bandwidth | : | 120kHz | Polarization | : | Horizontal |



Note:

- 1. Emission Level = reading value + correction factor.
- 2. Correction factor = cable loss + antenna factor gain of pre-amplifier.
- 3. Q.P is abbreviation of quasi-peak.

| Test Mode | : | Normal | | | |
|--------------|---|--------------------------------|-----------------|---|------------|
| Test Voltage | : | 120V/60Hz to the power adapter | | | |
| Tester | : | Meng | Temperature | : | 22°C |
| Humidity | : | 71%RH | Frequency Range | : | 30MHz~1GHz |
| IF Bandwidth | : | 120kHz | Polarization | : | Vertical |

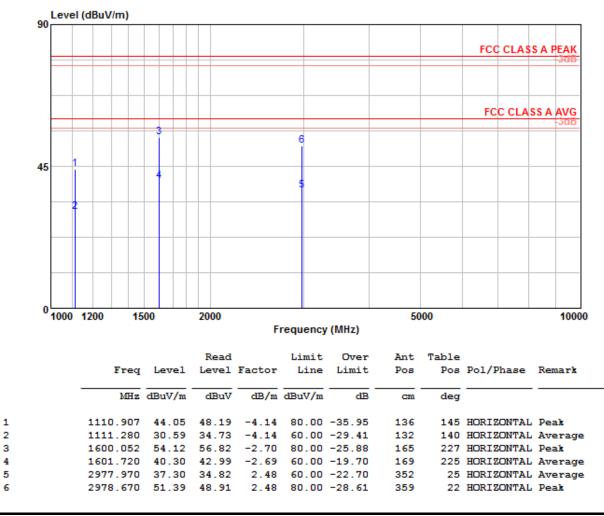


Note:

- 1. Emission Level = reading value + correction factor.
- 2. Correction factor = cable loss + antenna factor gain of pre-amplifier.
- 3. Q.P is abbreviation of quasi-peak.

Radiated Emission Measurement above 1000MHz

| Test Mode | : | Normal | | | |
|--------------|---|--------------------------------|-----------------|---|------------|
| Test Voltage | : | 120V/60Hz to the power adapter | | | |
| Tester | : | Meng | Temperature | : | 20°C |
| Humidity | : | 45%RH | Frequency Range | : | 1GHz~10GHz |
| IF Bandwidth | : | 1MHz | Polarization | : | Horizontal |

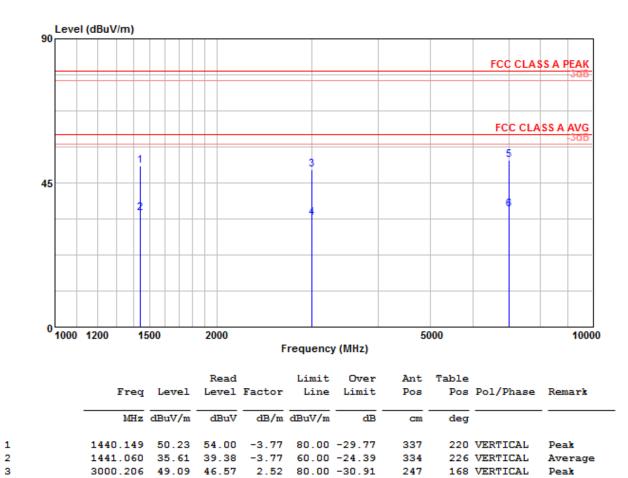


Note:

3

- Emission Level = reading value + correction factor. 1.
- Correction factor = cable loss + antenna factor gain of pre-amplifier. 2.

| Test Mode | : | Normal | | | |
|--------------|---|--------------------------------|-----------------|---|------------|
| Test Voltage | : | 120V/60Hz to the power adapter | | | |
| Tester | : | Meng | Temperature | | 20°C |
| Humidity | : | 45%RH | Frequency Range | : | 1GHz~10GHz |
| IF Bandwidth | : | 1MHz | Polarization | : | Vertical |



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|--------------------------------|---|
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1. Emission Level = reading value + correction factor.

3001.440 34.18 31.66

6981.654 52.12 44.85

6982.290 36.84 29.57

2. Correction factor = cable loss + antenna factor – gain of pre-amplifier.

2.52

60.00 -25.82

7.27 80.00 -27.88

7.27 60.00 -23.16

243

166

163

166 VERTICAL

259 VERTICAL

251 VERTICAL

Average

Average

Peak

Attachment 1 Photographs of EUT







40 eo 10 eo eo 100 no 50 eo eo eo 10 eo eo 50 500 no 50 eo eo 10 eo eo 20 300 no 50 eo eo 10 eo eo 10 eo eo 10



Power Adapter FSP FSP060-DBAE1



Attachment 2 Modifications of EUT

Statement of the EUT Modifications

According to the rules of ANSI C63.4-2009 clause 10.2.13, the following equipment (EUT):

| Product | : | 12.1 " Fanless Touch Panel PC |
|--------------|---|--|
| Model No. | : | AHP-1123HTT-A1-1010, xxxxxAHP-1123xxx-xxxxxxx |
| | | (Where x maybe is 0-9、A-Z、a-z、 - 、 blank) |
| Manufacturer | : | AAEON Technology Inc. |
| Address | : | 5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien Dist., |
| | | New Taipei City 23145, Taiwan, R.O.C |

□ should be <u>without</u> any modifications made

□ should be <u>with</u> some modifications made

to bring the EUT into compliance with the appropriate specifications (47CFR Part 15, Subpart B). If any, the details of the modifications including the complete descriptions, reasons and so on are described in next page of this report.

We , <u>AAEON Technology Inc.</u> hereby ensure that the product specified above will have all of the modifications incorporated in the product when manufactured and placed on the market.

The following importer or manufacturer is responsible for this statement:

| Company Name | : | |
|-----------------|---|----------|
| Company Address | : | |
| Telephone | : | E-mail : |

Legal Signature of the responsible personal:

Title / Name (full name)

Date

The details of the modifications:

| ltem | Solution Component | Specifications | Manufacturer | Quantity | Reasons |
|------|-----------------------|----------------|--------------|----------|---------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |

If needed, some modification items are shown in the photographs in the following.