

**FCC 47 CFR PART 15 SUBPART B AND ANSI C63.4:2014  
IC ICES-003 Issue 6  
TEST REPORT**

**For**

**8port Gigabit Web Smart PoE Switch**

**Model: VigorSwitch P1100**

**Trade Name: DrayTek**

**Issued for**

**DrayTek Corporation**

**No. 26, Fushing Rd., Hukou, Hsinchu Industrial Park, Hsinchu, 303, Taiwan**

**Issued by**

**Compliance Certification Services Inc.  
Hsinchu Lab.**

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**Issued Date: August 17, 2016**



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## Revision History

| Rev. | Issue Date | Revisions     | Effect Page | Revised By |
|------|------------|---------------|-------------|------------|
| 00   | 08/17/2016 | Initial Issue | All Page 22 | Vera Hsu   |
|      |            |               |             |            |
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# 1. TEST REPORT CERTIFICATION

**Applicant** : DrayTek Corporation  
**Address** : No. 26, Fushing Rd., Hukou, Hsinchu Industrial Park, Hsinchu, 303, Taiwan  
**Equipment Under Test** : 8port Gigabit Web Smart PoE Switch  
**Model** : VigorSwitch P1100  
**Trade Name** : DrayTek  
**Tested Date** : March 24 ~ May 04, 2016

| APPLICABLE STANDARD   |                    |             |
|---|--------------------|-------------|
| Standard  | Item               | Test Result |
| FCC Part 15 Subpart B, CLASS A, ANSI C63.4:2014 AND IC ICES-003 Issue 6 | Radiated Emission  | PASS        |
|   | Conducted Emission | PASS        |

WE HEREBY CERTIFY THAT: The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

**Approved by:**



Sb. Lu  
Sr. Engineer

**Reviewed by:**



Gundam Lin  
Sr. Engineer

## 2. EUT DESCRIPTION

|                            |   |
|----------------------------|---|
| <b>Product Name</b>        | 8port Gigabit Web Smart PoE Switch                |
| <b>Model Number</b>        | VigorSwitch P1100                                 |
| <b>Identify Number</b>     | T160804S01  |
| <b>Received Date</b>       | March 24, 2016                                    |
| <b>Power Rating</b>        | 100-240Vac, 50/60 Hz, 2A MAX                      |
| <b>Test Voltage</b>        | 120Vac/60Hz                                       |
| <b>AC Power Cable Type</b> | Non-shielded cable, 1.7m × 1 (Detachable)         |
| <b>I/O Port</b>            | RJ-45 Port × 8, AC Power Port × 1, Fiber Port × 2 |

*Remark: 1. For more details, please refer to the User's manual of the EUT.  
2. This report is transferred from T16080302-D.*

## 3. DESCRIPTION OF TEST MODES

1. The following test modes were scanned during the preliminary test:

| No. | Pre-Test Mode    |
|-----|------------------|
| 1   | Normal Operating |

2. After the preliminary scan, the following test mode was found to produce the highest emission level.

| Final Test Mode |                    |        |
|-----------------|--------------------|--------|
| Emission        | Radiated Emission  | Mode 1 |
|                 | Conducted Emission | Mode 1 |

*Remark: Then, the above highest emission mode of the configuration of the EUT and cable was chosen for all final test items.*

## 4. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4:2014 and FCC CFR 47 Part 15 Subpart B, IC ICES-003 Issue 6.

## 5. FACILITIES AND ACCREDITATION

### 5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

No.989-1, Wenshan Rd., Shangshan Village,  
Qionglin Township, Hsinchu County 30741, Taiwan (R.O.C.)

The sites are constructed in conformance with the requirements of ANSI C63.4:2014 and CISPR 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4 and CISPR 16-1-5.

### 5.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

|               |     |
|---------------|-----|
| <b>Taiwan</b> | TAF |
|---------------|-----|

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

|               |                 |
|---------------|-----------------|
| <b>Canada</b> | INDUSTRY CANADA |
| <b>Japan</b>  | VCCI            |
| <b>Taiwan</b> | BSMI            |
| <b>USA</b>    | FCC MRA         |

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.ccsrf.com>

### 5.3 MEASUREMENT UNCERTAINTY

The following table is for the measurement uncertainty, which is calculated as per the document CISPR 16-4-2.

| PARAMETER   | UNCERTAINTY |
|---|-------------|
| Open Area Test Site (OATS No.3) / Radiated Emission, 30 to 1000 MHz       | +/- 4.21    |
| Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 30 to 1000 MHz | +/- 3.97    |
| Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 1 to 18GHz     | +/- 3.58    |
| Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 18 to 26 GHz   | +/- 3.59    |
| Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 26 to 40 GHz   | +/- 3.81    |
| Conducted Emission (Mains Terminals), 9kHz to 30MHz                       | +/- 2.48    |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Consistent with industry standard (e.g. CISPR 22, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than  $U_{CISPR}$  which is 3.6dB and 5.2dB respectively. CCS values (called  $U_{Lab}$  in CISPR 16-4-2) is less than  $U_{CISPR}$  as shown in the table above. Therefore, MU need not be considered for compliance.

## 6. SETUP OF EQUIPMENT UNDER TEST

### SUPPORT EQUIPMENT

| No. | Product              | Manufacturer | Model No.     | Serial No.    |
|-----|----------------------|--------------|---------------|---------------|
| 1   | Notebook PC          | TOSHIBA      | 1E101235H     | PT345T-007002 |
| 2   | Notebook PC          | TOSHIBA      | M840          | 9C104267C     |
| 3   | Optical Transceivers | Finisar      | FTLF8519P2BCL | PKS38NS       |
| 4   | Optical Transceivers | Finisar      | FTLF8519P2BCL | PKS3JLX       |

| No. | Power & Signal Cable Description   |
|-----|------------------------------------|
| 1   | Non-shielded RJ-45 cable, 1.5m × 6 |
| 2   | Non-shielded RJ-45 cable, 10m × 2  |
| 3   | Non-shielded Fiber cable, 5 m × 2  |

### SETUP DIAGRAM FOR TESTS

EUT & peripherals setup diagram is shown in appendix setup photos.

### EUT OPERATING CONDITION

All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test. Grounding was established in accordance with the manufacturer’s requirements and conditions for the intended use.

1. EUT & peripherals setup diagram is shown in appendix setup photos.
2. Turn on the power of all equipments.
3. RJ-45 Port 1 link to Notebook PC 1 ; RJ-45 port 8 link to Notebook PC 2.  
Setup Notebook PC1 and Notebook PC2 IP 192.168.1.X.
4. Notebook PC 1 ping to Notebook PC 2.
5. RJ-45 port 2~7 / fiber port connect to load.
6. All of the functions are under run.
7. Start test.



## 7. EMISSION TEST

### 7.1 RADIATED EMISSION

#### LIMITS

(1) For Frequency Below 1GHz

47 CFR Part 15 Subpart B Section 15.109 (a) (b)

| Frequency (MHz) | Class A               |                         |                   | Class B               |                         |                   |
|-----------------|-----------------------|-------------------------|-------------------|-----------------------|-------------------------|-------------------|
|                 | Field Strength (µV/m) | Field Strength (dBµV/m) | Distance (meters) | Field Strength (µV/m) | Field Strength (dBµV/m) | Distance (meters) |
| 30 - 88         | 90                    | 39.0                    | 10                | 100                   | 40.0                    | 3                 |
| 88 - 216        | 150                   | 43.5                    | 10                | 150                   | 43.5                    | 3                 |
| 216 - 960       | 210                   | 46.4                    | 10                | 200                   | 46.0                    | 3                 |
| Above 960       | 300                   | 49.5                    | 10                | 500                   | 54.0                    | 3                 |

CISPR 22 (According to 47 CFR Part 15 Subpart B Section 15.109 (g))

| Frequency (MHz) | Field Strengths (dBµV/m) |         | Distance (meters) |
|-----------------|--------------------------|---------|-------------------|
|                 | Class A                  | Class B |                   |
| 30 - 230        | 40                       | 30      | 10                |
| 230 - 1000      | 47                       | 37      | 10                |

(2) For Frequency Above 1GHz (According to 47 CFR Part 15 Subpart B Section 15.109)

| Frequency (GHz) | Field Strength (dBµV/m) |         |         |         | Distance (meters) |
|-----------------|-------------------------|---------|---------|---------|-------------------|
|                 | Class A                 |         | Class B |         |                   |
|                 | Peak                    | Average | Peak    | Average |                   |
| Above 1GHz      | 80                      | 60      | 74      | 54      | 3                 |

(3) Frequency Range of Radiated Measurement (For unintentional radiators)

| Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz) | Range (MHz)  |
|---|--|
| Below 1.705   | 30   |
| 1.705 – 108   | 1000   |
| 108 – 500   | 2000   |
| 500 – 1000  | 5000   |
| Above 1000  | 5 <sup>th</sup> harmonic of the highest frequency or 40GHz, whichever is lower |

**TEST EQUIPMENT**

**Radiated Emission below 1GHz / OATS3**

| Name of Equipment | Manufacturer    | Model     | Serial Number | Calibration Due |
|-------------------|-----------------|-----------|---------------|-----------------|
| Bi-log Antenna    | TESEQ           | CBL 6112D | 36996         | 08/03/2016      |
| EMI Test Receiver | Rohde & Schwarz | ESCI      | 101131        | 03/15/2017      |
| Pre-Amplifier     | EMCI            | EMC330H   | 980140        | 04/28/2017      |
| Test S/W          | N/A             |           |               |                 |

*Remark: Each piece of equipment is scheduled for calibration once a year.*

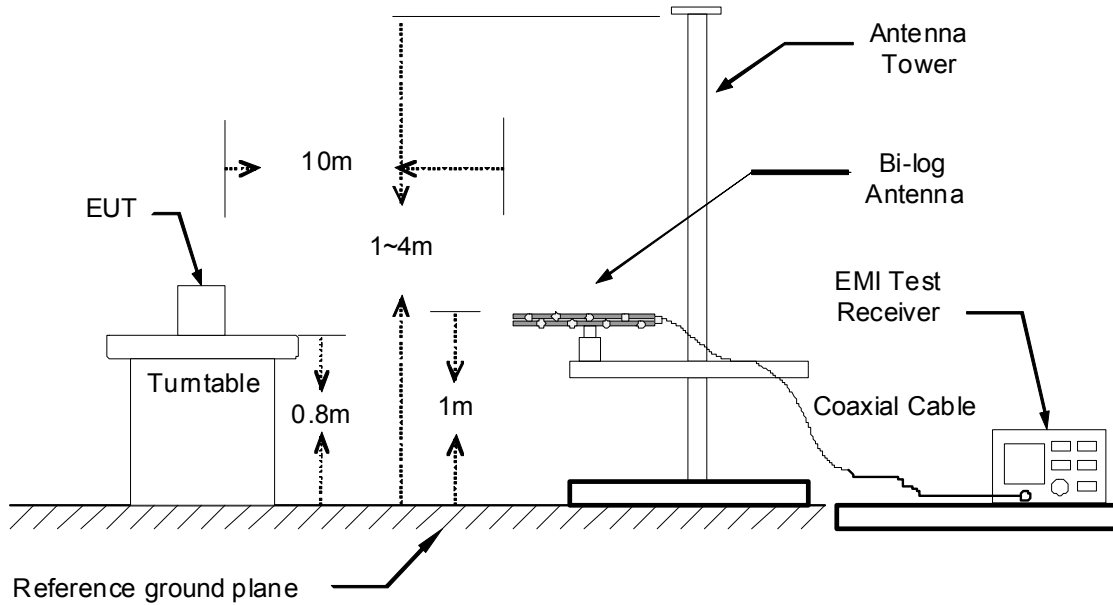
**Radiated Emission above 1GHz / 966Chamber\_B**

| Name of Equipment       | Manufacturer    | Model       | Serial Number | Calibration Due |
|-------------------------|-----------------|-------------|---------------|-----------------|
| Spectrum Analyzer       | Agilent         | E4446A      | MY46180323    | 04/12/2017      |
| EMI Test Receiver       | Rohde & Schwarz | ESCI        | 100221        | 04/26/2017      |
| Bi-log Antenna          | TESEQ           | CBL 6112D   | 35403         | 08/04/2016      |
| Broad-Band Horn Antenna | Schwarzbeck     | BBHA 9120 D | 9120D-778     | 08/09/2016      |
| Pre-Amplifier           | Agilent         | 8447D       | 2944A10052    | 07/14/2016      |
| Pre-Amplifier           | Agilent         | 8449B       | 3008A01916    | 07/14/2016      |
| Test S/W                | E3.815206a      |             |               |                 |

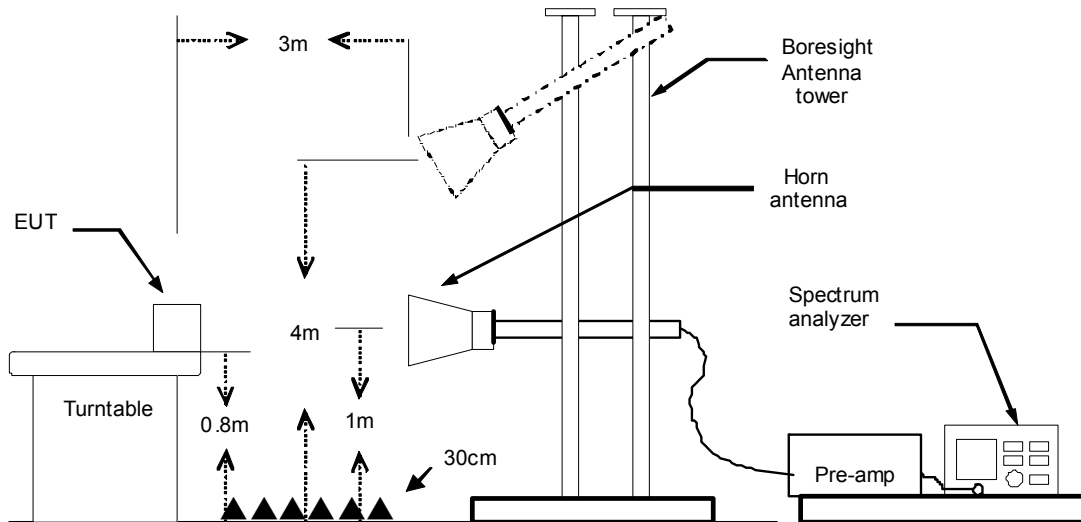
*Remark: Each piece of equipment is scheduled for calibration once a year.*

**TEST SETUP**

The diagram below shows the test setup that is utilized to make the measurements for emission below 1GHz.



The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.



**TEST PROCEDURE**

The basic test procedure was in accordance with ANSI C63.4:2014.

The devices under test were placed on a rotatable table top 0.8 meter above ground. The table was rotated 360 degrees to determine the position of the highest radiation. EUT is set 3 or 10m meters from the interference receiving antenna which is mounted on the top of a variable height mast. The antenna height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.

Note :

1. The bandwidth setting on the E.M.I. meter (EMI TEST RECEIVER) is 120 KHz. The levels are Quasi-Peak value readings. The frequency spectrum from 30MHz to 1000MHz was investigated.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

**TEST RESULTS**

**Below 1 GHz**

|                     |                                    |                             |               |
|---------------------|------------------------------------|-----------------------------|---------------|
| <b>Product Name</b> | 8port Gigabit Web Smart PoE Switch | <b>Test By</b>              | Kenneth Huang |
| <b>Test Model</b>   | VigorSwitch P1100                  | <b>Test Date</b>            | 2016/05/03    |
| <b>Test Mode</b>    | Mode 1                             | <b>Temp. &amp; Humidity</b> | 28°C, 55%     |

| <b>OATS3 at 10Meter / Horizontal</b> |                     |                      |                 |                         |                   |             |             |        |
|--------------------------------------|---------------------|----------------------|-----------------|-------------------------|-------------------|-------------|-------------|--------|
| Frequency (MHz)                      | Corr. Factor (dB/m) | Meter Reading (dBµV) | Limits (dBµV/m) | Emission Level (dBµV/m) | Margin Limit (dB) | Azimuth (°) | Height (cm) | Remark |
| 125.06                               | -18.63              | 46.88                | 43.50           | 28.25                   | -15.25            | 51          | 256         | QP     |
| 250.19                               | -16.66              | 47.23                | 46.40           | 30.57                   | -15.83            | 302         | 123         | QP     |
| 290.93                               | -15.89              | 49.65                | 46.40           | 33.76                   | -12.64            | 316         | 145         | QP     |
| 375.32                               | -13.13              | 40.78                | 46.40           | 27.65                   | -18.75            | 238         | 168         | QP     |
| 500.45                               | -9.79               | 45.46                | 46.40           | 35.67                   | -10.73            | 299         | 192         | QP     |
| 750.71                               | -4.96               | 39.98                | 46.40           | 35.02                   | -11.38            | 135         | 278         | QP     |

| <b>OATS3 at 10Meter / Vertical</b> |                     |                      |                 |                         |                   |             |             |        |
|------------------------------------|---------------------|----------------------|-----------------|-------------------------|-------------------|-------------|-------------|--------|
| Frequency (MHz)                    | Corr. Factor (dB/m) | Meter Reading (dBµV) | Limits (dBµV/m) | Emission Level (dBµV/m) | Margin Limit (dB) | Azimuth (°) | Height (cm) | Remark |
| 32.91                              | -14.04              | 42.87                | 39.00           | 28.83                   | -10.17            | 101         | 145         | QP     |
| 52.31                              | -23.46              | 52.98                | 39.00           | 29.52                   | -9.48             | 10          | 165         | QP     |
| 70.74                              | -24.05              | 44.32                | 39.00           | 20.27                   | -18.73            | 201         | 258         | QP     |
| 125.06                             | -18.63              | 47.77                | 43.50           | 29.14                   | -14.36            | 31          | 159         | QP     |
| 250.19                             | -16.66              | 39.67                | 46.40           | 23.01                   | -23.39            | 348         | 235         | QP     |
| 500.45                             | -9.79               | 43.85                | 46.40           | 34.06                   | -12.34            | 106         | 147         | QP     |

**Remark:**

1. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) – PreAmp.Gain (dB)
3. Emission Level (dBµV/m) = Correction Factor (dB/m) + Meter Reading (dBµV)
4. Margin (dB) = Emission Level (dBµV/m) - Quasi-peak limit (dBµV/m)

**Above 1GHz**

|                     |                                    |                             |               |
|---------------------|------------------------------------|-----------------------------|---------------|
| <b>Product Name</b> | 8port Gigabit Web Smart PoE Switch | <b>Test By</b>              | Kenneth Huang |
| <b>Test Model</b>   | VigorSwitch P1100                  | <b>Test Date</b>            | 2016/03/28    |
| <b>Test Mode</b>    | Mode 1                             | <b>Temp. &amp; Humidity</b> | 20°C, 50%     |

**966Chamber\_B at 3Meter / Horizontal**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|-----------|--------------|-----------|---------------|--------------|-----------|-------------|-----------|--------|
| 1440.00   | 45.28        | -6.16     | 39.12         | 80.00        | -40.88    | 20          | 100       | Peak   |
| 1815.00   | 44.07        | -4.55     | 39.52         | 80.00        | -40.48    | 1           | 150       | Peak   |
| 1940.00   | 42.94        | -4.04     | 38.90         | 80.00        | -41.10    | 335         | 100       | Peak   |
| 2765.00   | 40.94        | -1.06     | 39.88         | 80.00        | -40.12    | 175         | 150       | Peak   |
| 4105.00   | 40.56        | 3.24      | 43.80         | 80.00        | -36.20    | 10          | 300       | Peak   |
| 5500.00   | 39.03        | 7.14      | 46.17         | 80.00        | -33.83    | 36          | 200       | Peak   |

**966Chamber\_B at 3Meter / Vertical**

| Freq. MHz | Reading dBuV | C.F. dB/m | Result dBuV/m | Limit dBuV/m | Margin dB | Azimuth deg | Height cm | Remark |
|-----------|--------------|-----------|---------------|--------------|-----------|-------------|-----------|--------|
| 1815.00   | 43.69        | -4.55     | 39.14         | 80.00        | -40.86    | 360         | 100       | Peak   |
| 1940.00   | 44.42        | -4.04     | 40.38         | 80.00        | -39.62    | 39          | 100       | Peak   |
| 2560.00   | 41.13        | -1.67     | 39.46         | 80.00        | -40.54    | 295         | 150       | Peak   |
| 3840.00   | 41.37        | 2.12      | 43.49         | 80.00        | -36.51    | 158         | 400       | Peak   |
| 4700.00   | 41.12        | 5.08      | 46.20         | 80.00        | -33.80    | 119         | 200       | Peak   |
| 5285.00   | 39.34        | 6.66      | 46.00         | 80.00        | -34.00    | 97          | 100       | Peak   |

**Remark:**

- Average test would be performed if the peak result were greater than the average limit.
- Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Result = Reading + Correction Factor  
 Margin = Result – Limit  
 Remark Peak = Result(PK) – Limit(PK)  
 Remark AVG = Result(AV) – Limit(AV)

## 7.2 CONDUCTED EMISSION

### LIMITS

| Frequency Range (MHz) | Voltage Limits (dBµV) |         |            |          |
|-----------------------|-----------------------|---------|------------|----------|
|                       | Class A               |         | Class B    |          |
|                       | Quasi-peak            | Average | Quasi-peak | Average  |
| 0.15 - 0.50           | 79                    | 66      | 66 - 56*   | 56 - 46* |
| 0.50 - 5.00           | 73                    | 60      | 56         | 46       |
| 5.00 - 30.0           | 73                    | 60      | 60         | 50       |

**Remark:** (1) The limit decreases linearly with logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

(2) The lower limit shall apply at the transition frequency.

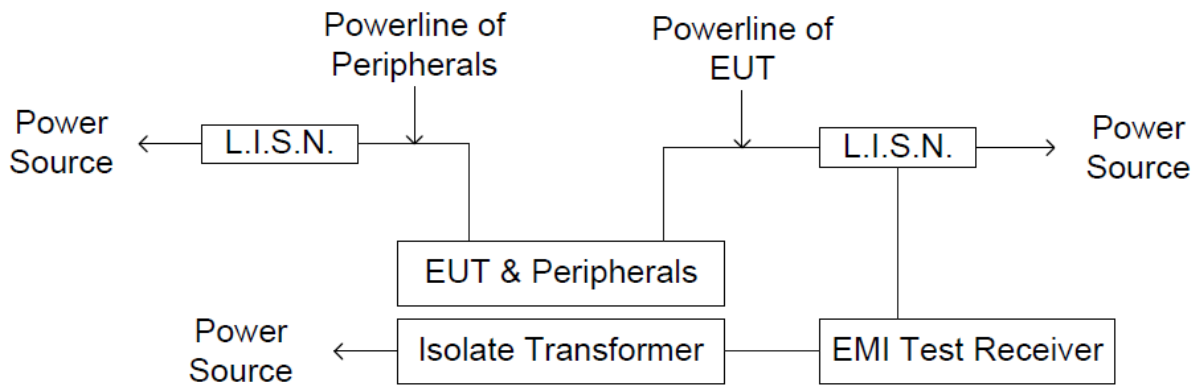
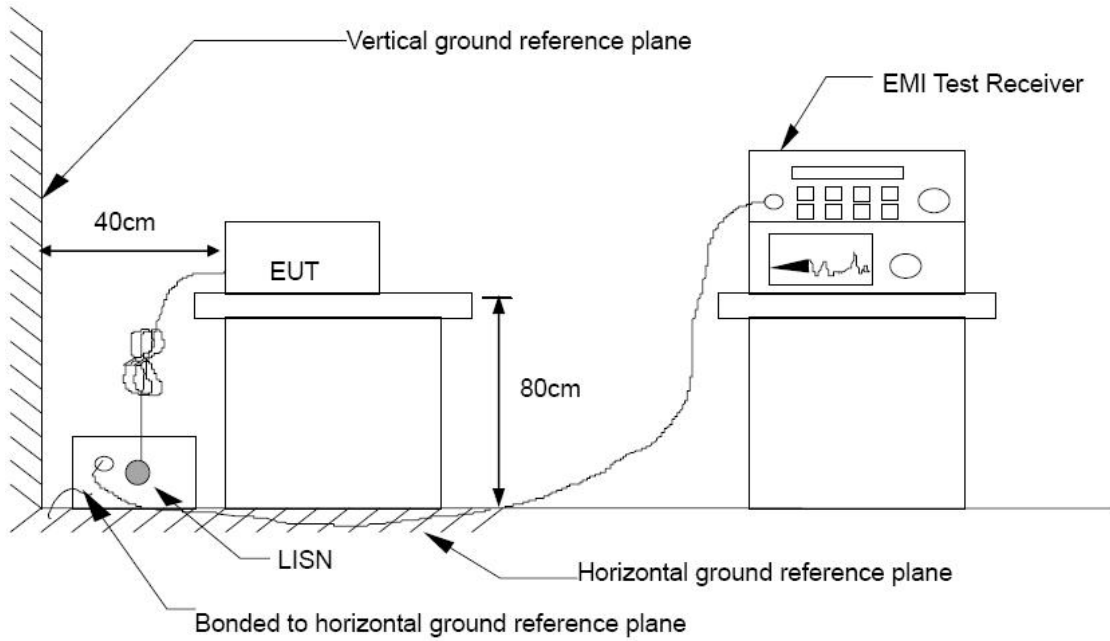
(3) \* Decreasing linearly with the logarithm of the frequency.

### TEST EQUIPMENT

| Name of Equipment | Manufacturer    | Model     | Serial Number | Calibration Due |
|-------------------|-----------------|-----------|---------------|-----------------|
| L.I.S.N           | Schwarzbeck     | NSLK 8127 | 8127 465      | 08/05/2016      |
| L.I.S.N           | Schwarzbeck     | NSLK 8127 | 8127 473      | 03/10/2017      |
| EMI Test Receiver | Rohde & Schwarz | ESHS 30   | 838550/003    | 10/31/2016      |
| Pulse Limiter     | Rohde & Schwarz | ESH3-Z2   | 100111        | 06/28/2016      |
| Test S/W          | E3.815206a      |           |               |                 |

**Remark:** Each piece of equipment is scheduled for calibration once a year.

**TEST SETUP**





**TEST PROCEDURE**

The basic test procedure was in accordance with ANSI C63.4:2014.

The test procedure is performed in a 4m × 3m × 2.4m (L×W×H) shielded room.

The EUT along with its peripherals were placed on a 1.0m (W) × 1.5m (L) and 0.8m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.

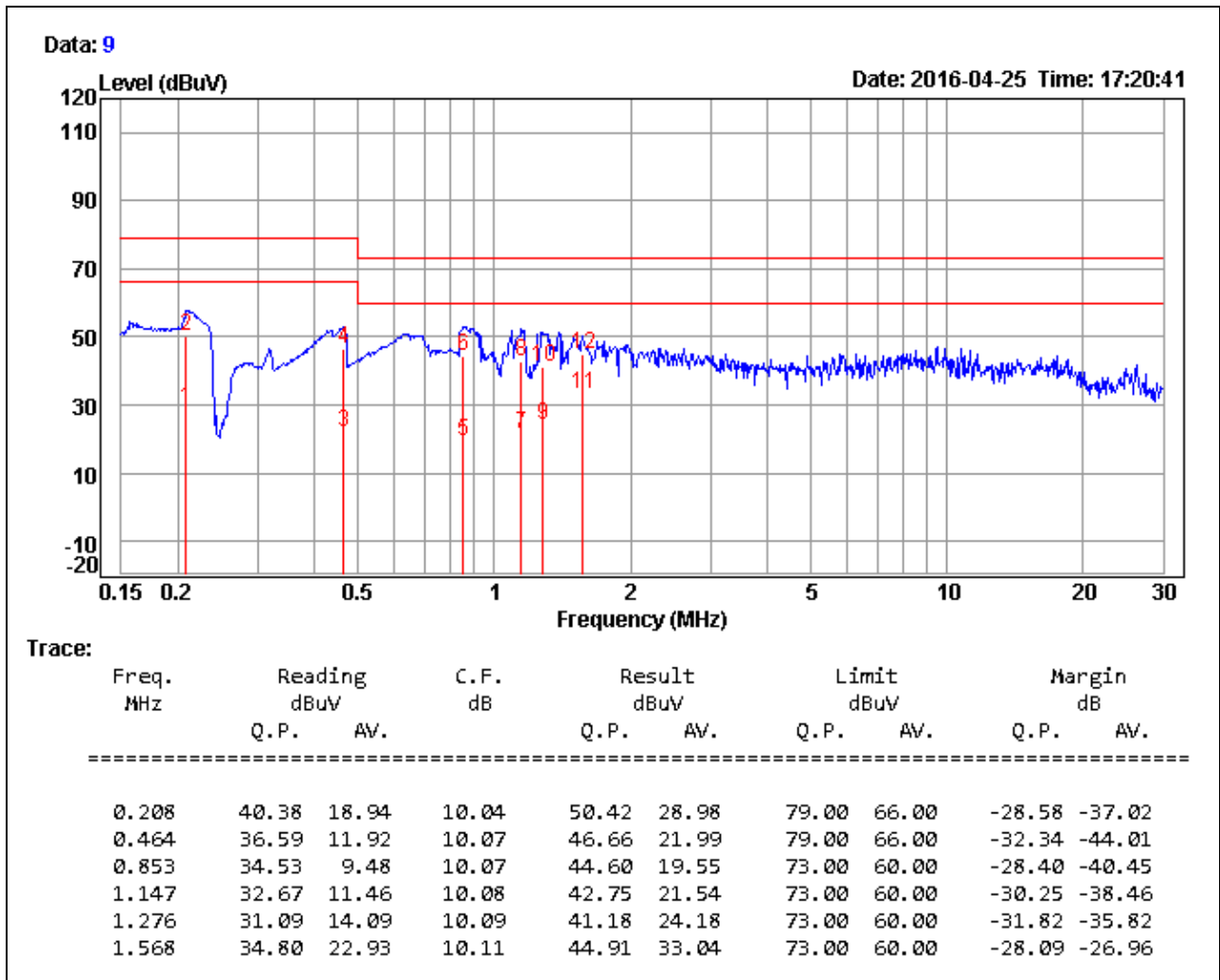
The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.

The EUT was located so that the distance between the boundary of the EUT and the closest surface of the LISN is 0.8 m. Where a mains flexible cord was provided by the manufacturer shall be 1 m long, or if in excess of 1 m, the excess cable was folded back and forth as far as possible so as to form a bundle not exceeding 0.4 m in length.

**TEST RESULTS**

|                     |                                    |                             |              |
|---------------------|------------------------------------|-----------------------------|--------------|
| <b>Product Name</b> | 8port Gigabit Web Smart PoE Switch | <b>Test By</b>              | Gill Yeh     |
| <b>Test Model</b>   | VigorSwitch P1100                  | <b>Test Date</b>            | 2016/04/25   |
| <b>Test Mode</b>    | Mode 1                             | <b>Temp. &amp; Humidity</b> | 19.9 °C, 52% |

**LINE**

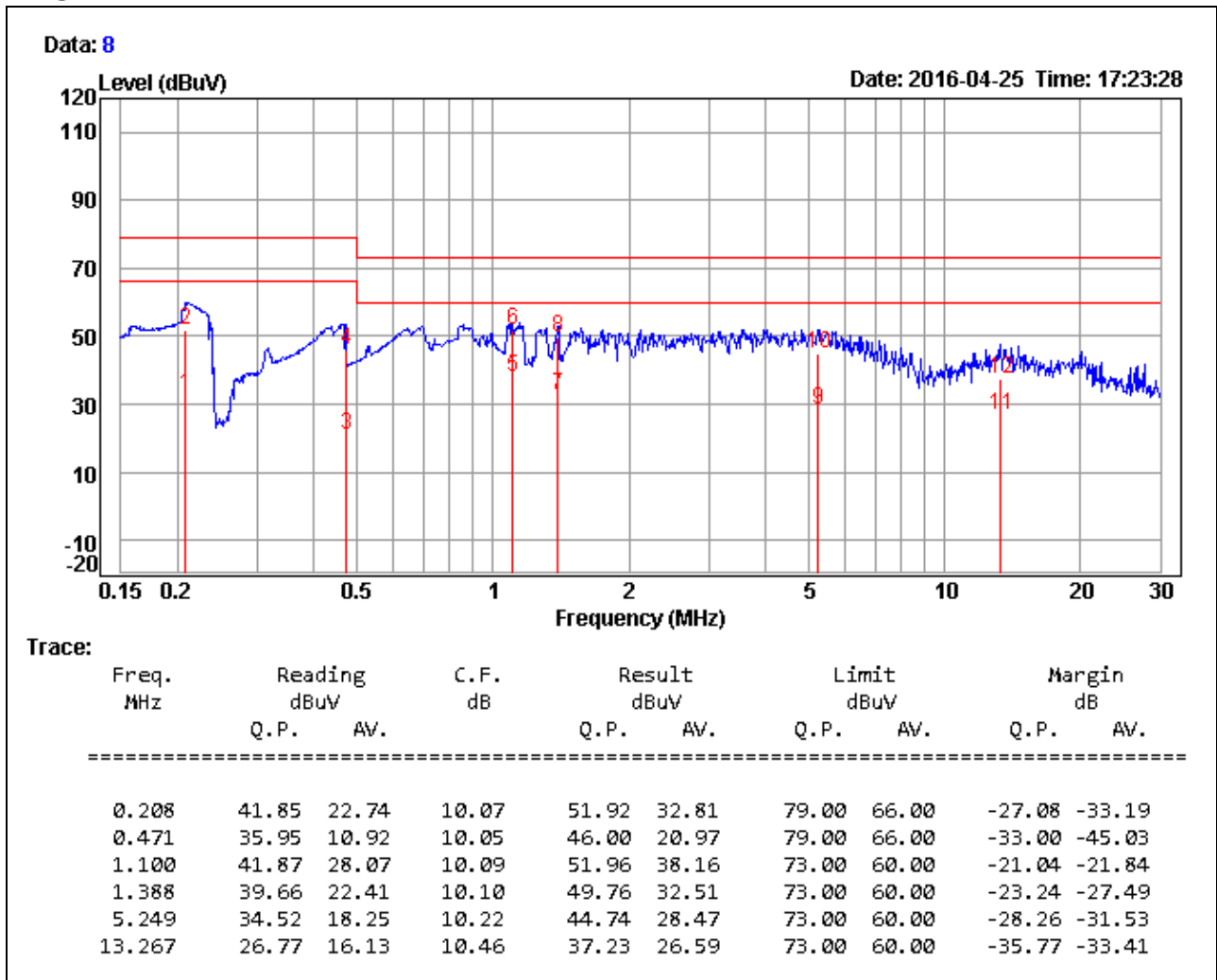


**Remark:**

1. Correction Factor = Insertion loss + Cable loss
2. Result level = Reading Value + Correction factor
3. Margin value = Result level – Limit value

|                     |                                    |                             |              |
|---------------------|------------------------------------|-----------------------------|--------------|
| <b>Product Name</b> | 8port Gigabit Web Smart PoE Switch | <b>Test By</b>              | Gill Yeh     |
| <b>Test Model</b>   | VigorSwitch P1100                  | <b>Test Date</b>            | 2016/04/25   |
| <b>Test Mode</b>    | Mode 1                             | <b>Temp. &amp; Humidity</b> | 19.9 °C, 52% |

**NEUTRAL**



**Remark:**

1. Correction Factor = Insertion loss + Cable loss
2. Result level = Reading Value + Correction factor
3. Margin value = Result level – Limit value

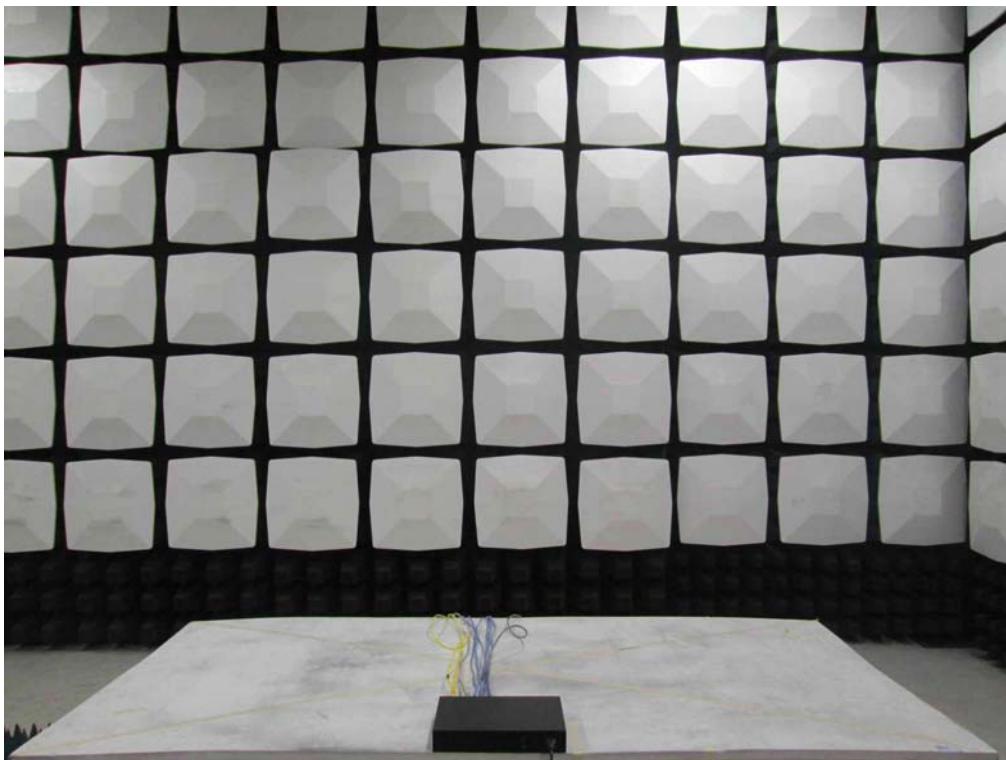
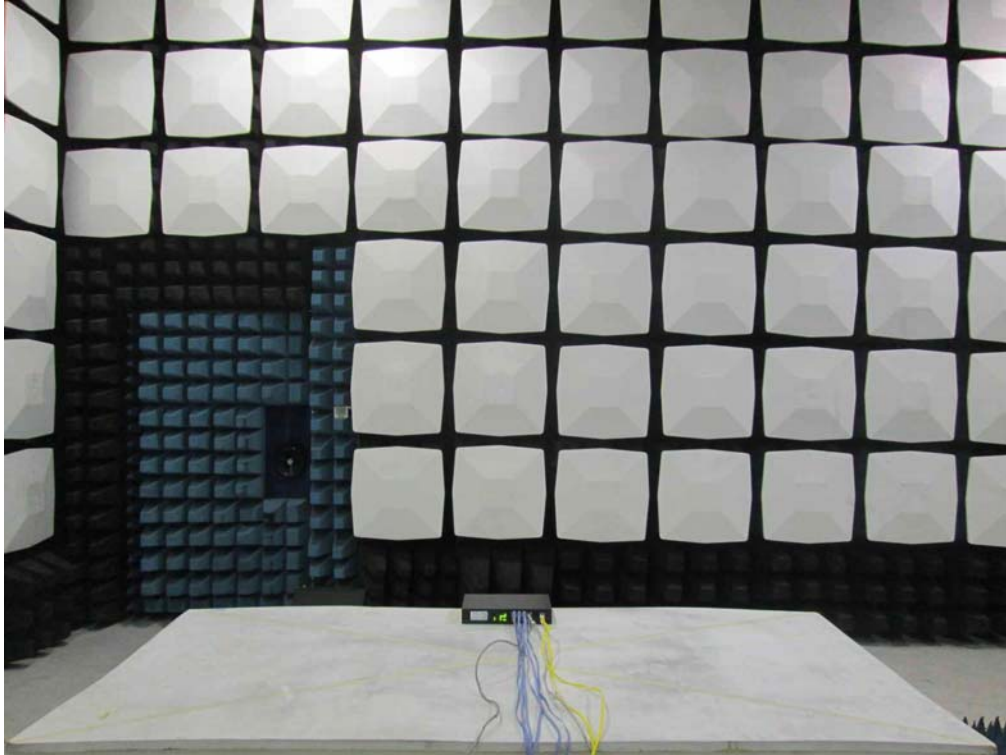
## 8. APPENDIX SETUP PHOTOS

### RADIATED EMISSION SETUP

Below 1GHz



**Above 1GHz**





**CONDUCTED EMISSION SETUP**

