

## 4. 7 Conducted Power Line Test Result

The frequency spectrum from 0.45 MHz to 30 MHz was investigated. All readings are quasi -peak values with a resolution bandwidth of 9 KHz.

- Temperature : 26 °C
- Humidity : 53 % RH

|              |                                   |             |                    |
|--------------|-----------------------------------|-------------|--------------------|
| Product      | : Electronic Ballasts             | Test Mode   | : EB-235HE-120-HPF |
| Test Item    | : General Conducted Emission Data | Temperature | : 25 °C            |
| Test Voltage | : 120VAC / 60Hz                   | Humidity    | : 56%RH            |
| Test Result  | : <b>PASS</b>                     |             |                    |

| Frequency (MHz) | Emission (dBuV) | Va/Vb | Limits QP (dBuV) | Margin (dB) |
|-----------------|-----------------|-------|------------------|-------------|
| 0.474           | 37.2            | Va    | 48               | -10.8       |
| 11.778          | 40.3            | Va    | 48               | -7.7        |
| 12.158          | 42.3            | Va    | 48               | -5.7        |
| 13.082          | 44.4            | Va    | 48               | -3.6        |
| 20.886          | 40.6            | Va    | 48               | -7.4        |
| 0.474           | 43.3            | Vb    | 48               | -4.8        |
| 0.519           | 35.4            | Vb    | 48               | -12.6       |
| 10.294          | 37.6            | Vb    | 48               | -10.4       |
| 20.31           | 39.4            | Vb    | 48               | -8.6        |

**Note:**

- Uncertainty in conducted emission measured is <+/ -2dB.
- The emission levels of other frequencies were very low against the limit.
- The Quasi-peak emission level also meets average limit and measurement with the average detector is unnecessary.
- Emission = Meter Reading + Factor ; Factor = Insertion Loss + Cable Loss.
- Margin Value = Emission Level – Limit Value. All reading are Quasi-Peak Values.

|              |                                   |             |                        |
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| Test Voltage | : 120VAC / 60Hz                   | Humidity    | : 56%RH                |
| Test Result  | : <b>PASS</b>                     |             |                        |

| Frequency (MHz) | Emission (dBuV) | Va/Vb | Limits QP (dBuV) | Margin (dB) |
|-----------------|-----------------|-------|------------------|-------------|
| 0.466           | 40.9            | Va    | 48               | -7.2        |
| 0.550           | 42.6            | Va    | 48               | -5.4        |
| 18.726          | 43.1            | Va    | 48               | -5.0        |
| 19.150          | 43.7            | Va    | 48               | -4.3        |
| 19.438          | 44.2            | Va    | 48               | -3.9        |
| 20.480          | 45.0            | Va    | 48               | -3.0        |
| 0.526           | 42.0            | Vb    | 48               | -6.0        |
| 0.626           | 36.7            | Vb    | 48               | -11.4       |
| 0.742           | 38.4            | Vb    | 48               | -9.6        |
| 15.814          | 38.2            | Vb    | 48               | -9.8        |
| 22.206          | 39.3            | Vb    | 48               | -8.7        |

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- Margin Value = Emission Level – Limit Value. All reading are Quasi-Peak Values.

|              |                                   |             |                    |
|--------------|-----------------------------------|-------------|--------------------|
| Product      | : Electronic Ballasts             | Test Mode   | : EB-239HO-120-HPF |
| Test Item    | : General Conducted Emission Data | Temperature | : 25 °C            |
| Test Voltage | : 120VAC / 60Hz                   | Humidity    | : 56%RH            |
| Test Result  | : <b>PASS</b>                     |             |                    |

| Frequency (MHz) | Emission (dBuV) | Va/Vb | Limits QP (dBuV) | Margin (dB) |
|-----------------|-----------------|-------|------------------|-------------|
| 0.614           | 43.1            | Va    | 48               | -4.9        |
| 0.722           | 43.2            | Va    | 48               | -4.8        |
| 0.782           | 43.8            | Va    | 48               | -4.2        |
| 0.906           | 45.4            | Va    | 48               | -2.6        |
| 0.960           | 46.0            | Va    | 48               | -2.0        |
| 1.202           | 46.0            | Va    | 48               | -2.0        |
| 0.742           | 45.0            | Vb    | 48               | -3.0        |
| 0.782           | 45.7            | Vb    | 48               | -2.3        |
| 0.846           | 44.6            | Vb    | 48               | -3.4        |
| 0.930           | 45.9            | Vb    | 48               | -2.1        |
| 0.938           | 45.8            | Vb    | 48               | -2.2        |
| 21.070          | 45.6            | Vb    | 48               | -2.4        |

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- 4.Emission = Meter Reading + Factor ; Factor = Insertion Loss + Cable Loss.
- 5.Margin Value = Emission Level – Limit Value. All reading are Quasi-Peak Values.

|              |                                   |             |                        |
|--------------|-----------------------------------|-------------|------------------------|
| Product      | : Electronic Ballasts             | Test Mode   | : EB-239HO-120-HPF-CON |
| Test Item    | : General Conducted Emission Data | Temperature | : 25 °C                |
| Test Voltage | : 120VAC / 60Hz                   | Humidity    | : 56%RH                |
| Test Result  | : <b>PASS</b>                     |             |                        |

| Frequency (MHz) | Emission (dBuV) | Va/Vb | Limits QP (dBuV) | Margin (dB) |
|-----------------|-----------------|-------|------------------|-------------|
| 17.278          | 41.3            | Va    | 48               | -6.7        |
| 18.042          | 43.2            | Va    | 48               | -4.8        |
| 18.974          | 43.8            | Va    | 48               | -4.2        |
| 17.818          | 43.7            | Vb    | 48               | -4.3        |
| 18.166          | 44.5            | Vb    | 48               | -3.5        |
| 19.198          | 45.3            | Vb    | 48               | -2.7        |

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- 4.Emission = Meter Reading + Factor ; Factor = Insertion Loss + Cable Loss.
- 5.Margin Value = Emission Level – Limit Value. All reading are Quasi-Peak Values.

|              |                                   |             |                    |
|--------------|-----------------------------------|-------------|--------------------|
| Product      | : Electronic Ballasts             | Test Mode   | : EB-232T8-120-HPF |
| Test Item    | : General Conducted Emission Data | Temperature | : 25 °C            |
| Test Voltage | : 120VAC / 60Hz                   | Humidity    | : 56%RH            |
| Test Result  | : <b>PASS</b>                     |             |                    |

| Frequency (MHz) | Emission (dBuV) | Va/Vb | Limits QP (dBuV) | Margin (dB) |
|-----------------|-----------------|-------|------------------|-------------|
| 0.550           | 43.1            | Va    | 48               | -4.9        |
| 0.702           | 43.9            | Va    | 48               | -4.1        |
| 0.754           | 45.1            | Va    | 48               | -2.9        |
| 0.918           | 44.7            | Va    | 48               | -3.3        |
| 0.550           | 43.3            | Vb    | 48               | -4.7        |
| 0.758           | 45.7            | Vb    | 48               | -2.3        |
| 0.706           | 45.2            | Vb    | 48               | -2.8        |
| 0.818           | 45.6            | Vb    | 48               | -2.4        |
| 15.030          | 45.2            | Vb    | 48               | -2.8        |

**Note:**

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- 4.Emission = Meter Reading + Factor ; Factor = Insertion Loss + Cable Loss.
- 5.Margin Value = Emission Level – Limit Value. All reading are Quasi-Peak Values.

**Conducted Emission**

**FCC Part 18**

EUT: Electronic Ballasts M/N: EB-235HE-120-HPF

Manufacturer: Kai Wo Trading Companyy

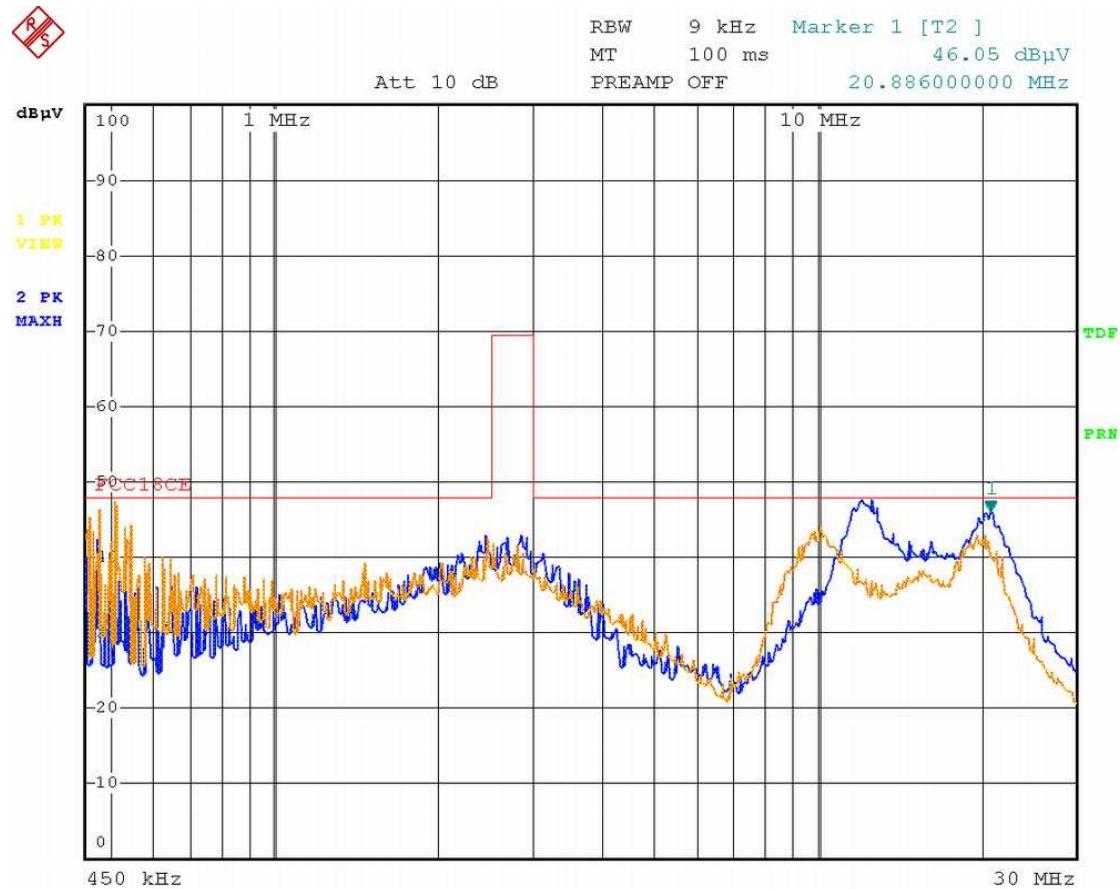
Operating Condition: Normal

Test Site: Ke Mei Ou Lab

Operator: Peter Lin

Test Specification: LINE&NEUTRAL

Comment:



**Conducted Emission**

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Manufacturer: Kai Wo Trading Company

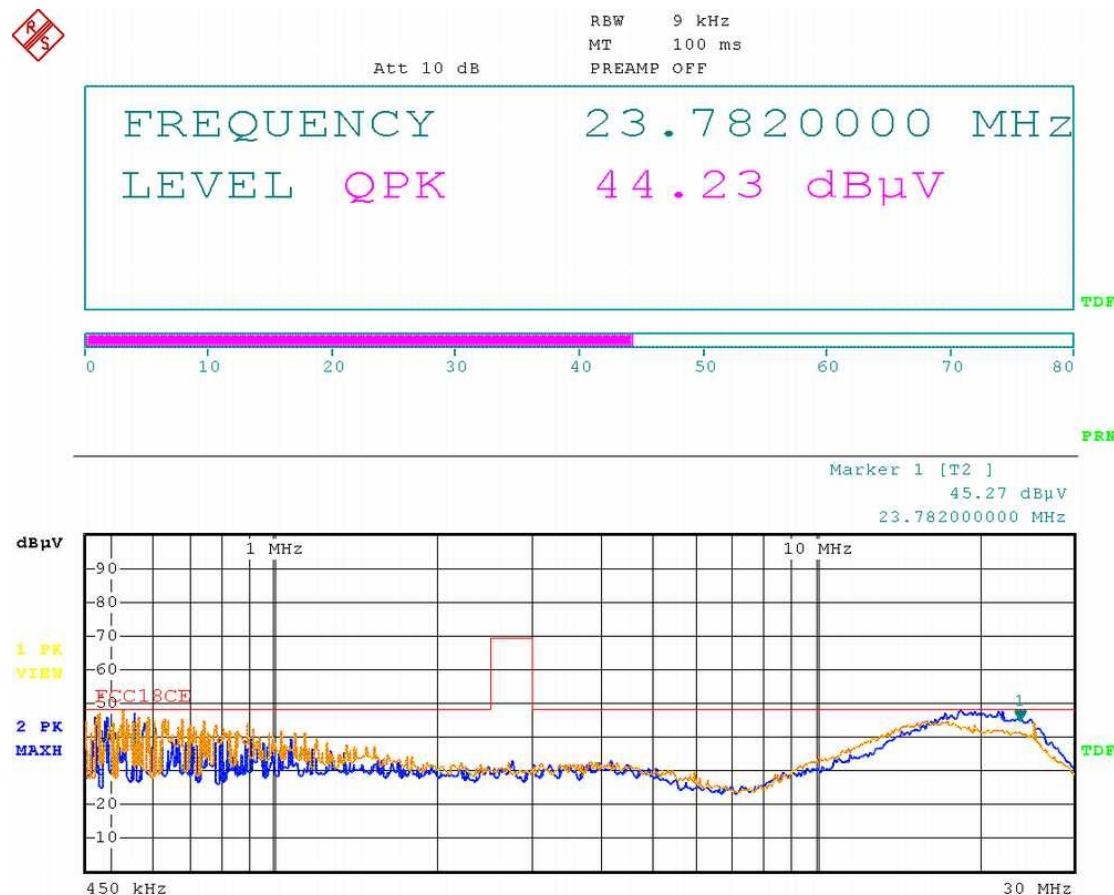
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**Conducted Emission**

**FCC Part 18**

*EUT:* Electronic Ballasts M/N: EB-239HO-120-HPF

*Manufacturer:* Kai Wo Trading Companyy

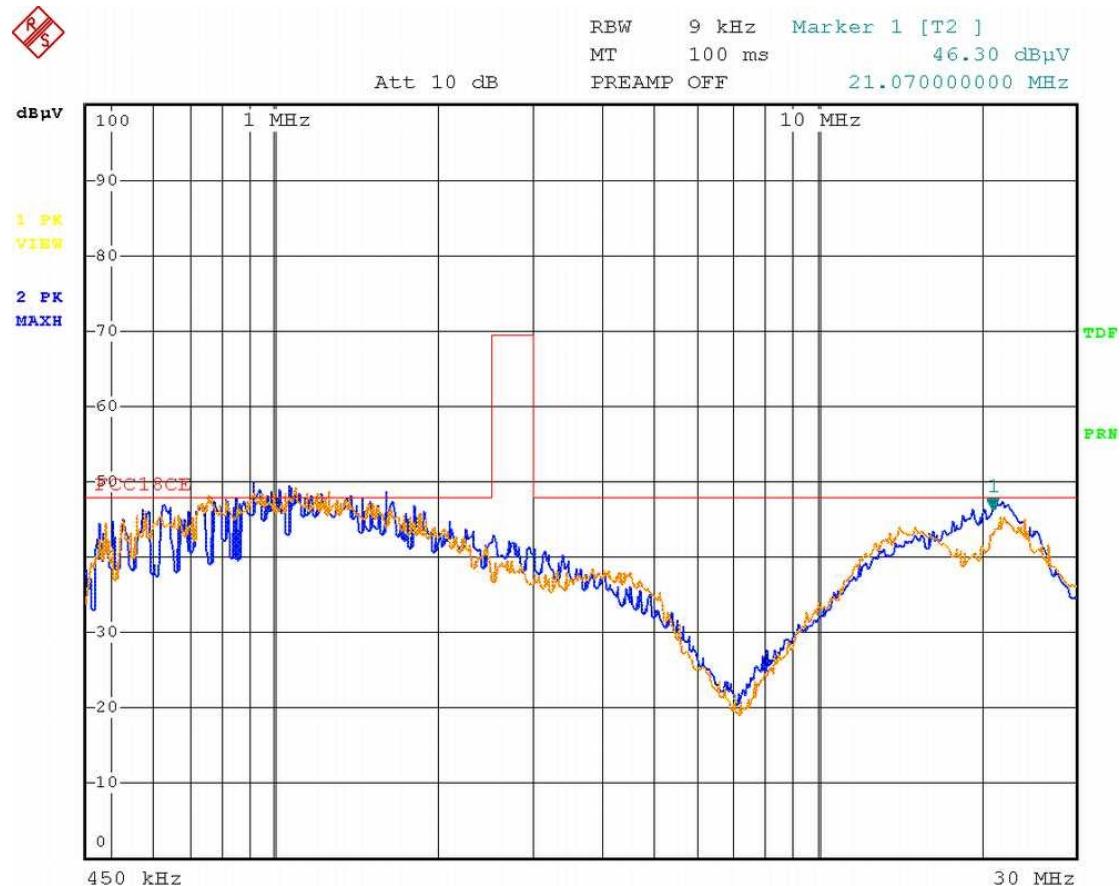
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*Test Site:* Ke Mei Ou Lab

*Operator:* Peter Lin

*Test Specification:* LINE&NEUTRAL

*Comment:*



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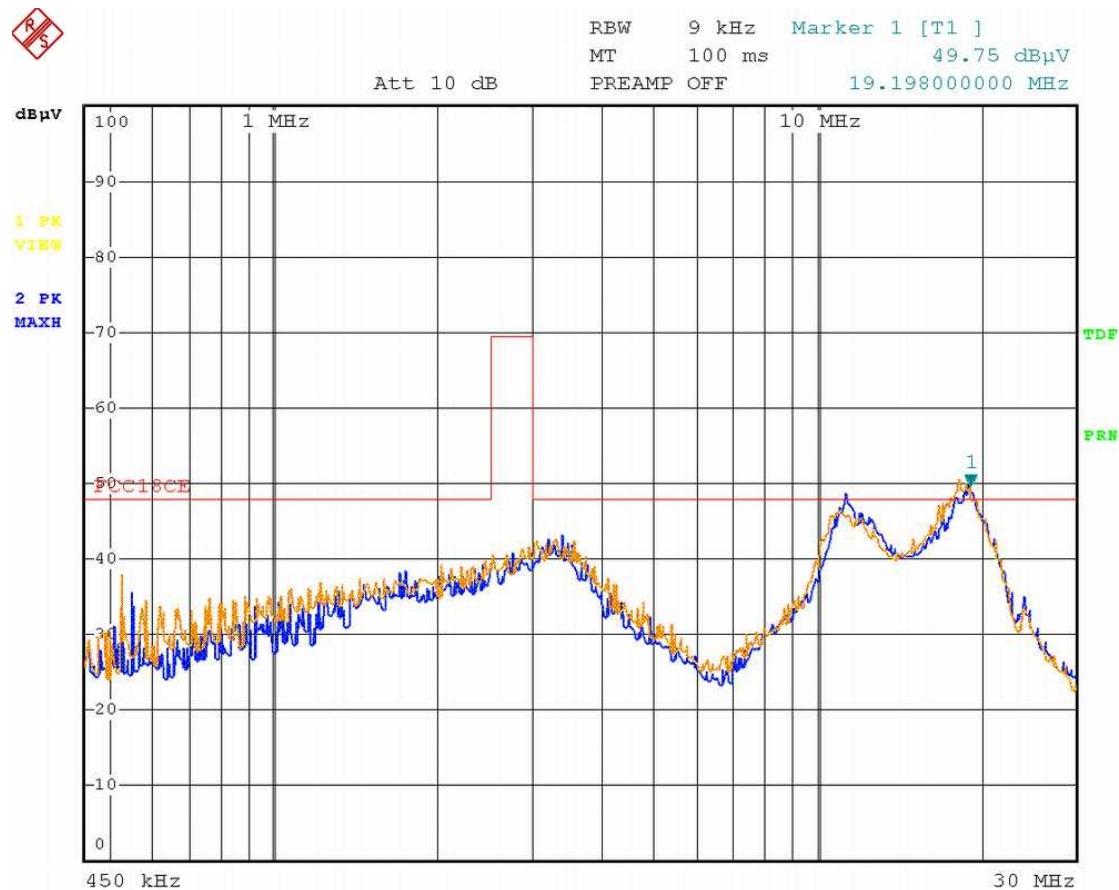
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**FCC Part 18**

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*Manufacturer:* Kai Wo Trading Companyy

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*Test Site:* Ke Mei Ou Lab

*Operator:* Peter Lin

*Test Specification:* LINE&NEUTRAL

*Comment:*

