



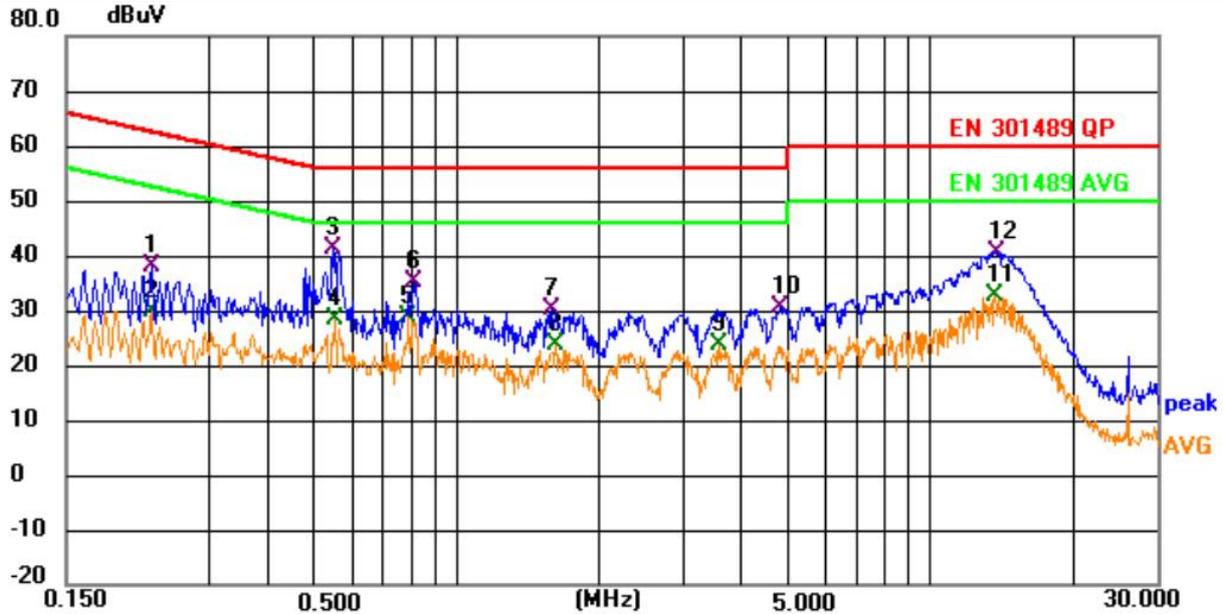
Appendix A for Emission and Immunity test results

Product Name: Game Controller

Test Model: P5

A.1 Line Conducted Emission

| | | | |
|--------------------------|------------------|---------------|--------------|
| Test Model | P5 | Test Mode | TM1 |
| Environmental Conditions | 22.5°C, 53.7% RH | Test Engineer | Jay Luo |
| Pol. | Line | Test Voltage | AC 230V/50Hz |

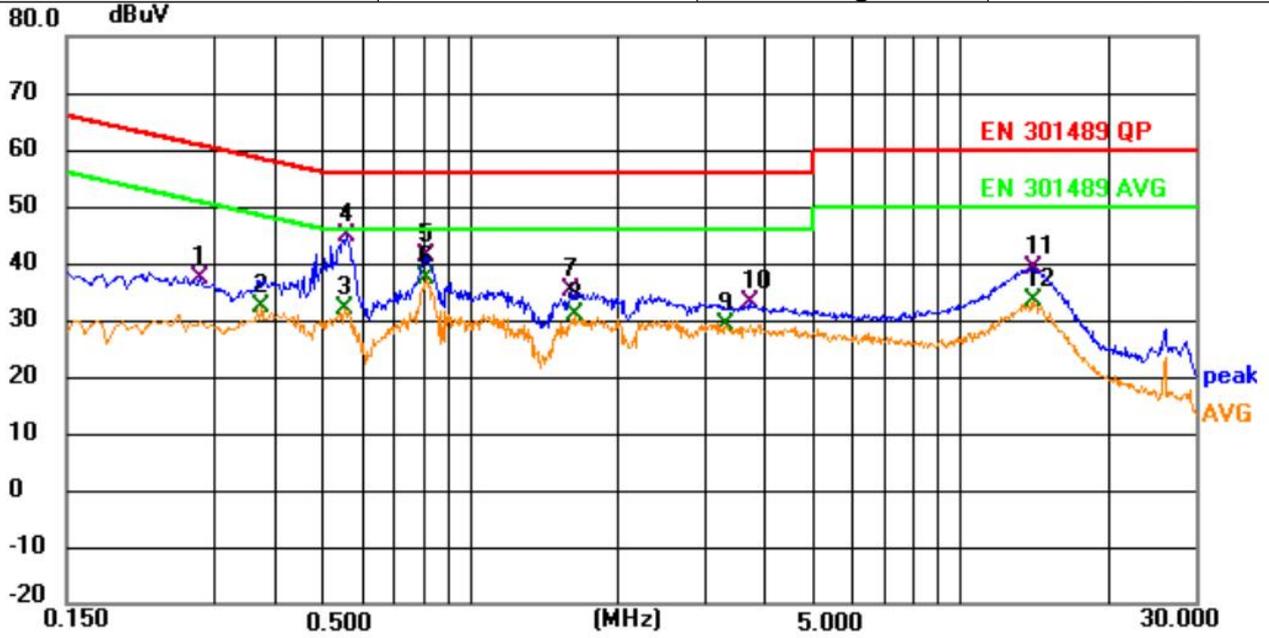


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1 | | 0.227 | 18.23 | 19.70 | 37.93 | 62.56 | -24.63 | QP | |
| 2 | | 0.227 | 10.15 | 19.70 | 29.85 | 52.56 | -22.71 | AVG | |
| 3 | * | 0.546 | 21.46 | 19.70 | 41.16 | 56.00 | -14.84 | QP | |
| 4 | | 0.555 | 8.59 | 19.67 | 28.26 | 46.00 | -17.74 | AVG | |
| 5 | | 0.793 | 9.57 | 19.10 | 28.67 | 46.00 | -17.33 | AVG | |
| 6 | | 0.816 | 16.22 | 19.08 | 35.30 | 56.00 | -20.70 | QP | |
| 7 | | 1.585 | 11.00 | 19.03 | 30.03 | 56.00 | -25.97 | QP | |
| 8 | | 1.621 | 4.56 | 19.02 | 23.58 | 46.00 | -22.42 | AVG | |
| 9 | | 3.592 | 4.46 | 19.20 | 23.66 | 46.00 | -22.34 | AVG | |
| 10 | | 4.821 | 11.66 | 18.98 | 30.64 | 56.00 | -25.36 | QP | |
| 11 | | 13.664 | 12.78 | 19.82 | 32.60 | 50.00 | -17.40 | AVG | |
| 12 | | 13.830 | 20.85 | 19.83 | 40.68 | 60.00 | -19.32 | QP | |





| | | | |
|---------------------------------|------------------|----------------------|--------------|
| Test Model | P5 | Test Mode | TM1 |
| Environmental Conditions | 22.5°C, 53.7% RH | Test Engineer | Jay Luo |
| Pol. | Neutral | Test Voltage | AC 230V/50Hz |



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measurement dBuV | Limit dBuV | Margin dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|---------------------|---------------|--------------|----------|---------|
| 1 | | 0.281 | 17.66 | 19.78 | 37.44 | 60.79 | -23.35 | QP | |
| 2 | | 0.375 | 12.37 | 19.83 | 32.20 | 48.39 | -16.19 | AVG | |
| 3 | | 0.555 | 12.67 | 19.42 | 32.09 | 46.00 | -13.91 | AVG | |
| 4 | | 0.559 | 25.27 | 19.42 | 44.69 | 56.00 | -11.31 | QP | |
| 5 | | 0.811 | 21.94 | 19.14 | 41.08 | 56.00 | -14.92 | QP | |
| 6 | * | 0.811 | 18.04 | 19.14 | 37.18 | 46.00 | -8.82 | AVG | |
| 7 | | 1.603 | 16.05 | 19.01 | 35.06 | 56.00 | -20.94 | QP | |
| 8 | | 1.631 | 11.87 | 19.01 | 30.88 | 46.00 | -15.12 | AVG | |
| 9 | | 3.313 | 10.22 | 18.99 | 29.21 | 46.00 | -16.79 | AVG | |
| 10 | | 3.700 | 13.90 | 18.98 | 32.88 | 56.00 | -23.12 | QP | |
| 11 | | 13.992 | 19.36 | 19.70 | 39.06 | 60.00 | -20.94 | QP | |
| 12 | | 13.992 | 13.78 | 19.70 | 33.48 | 50.00 | -16.52 | AVG | |

Note: For conducted emission and radiated emission test, a power supply of 230VAC and 120VAC was used for testing respectively, and only recorded the worst case of 230VAC.

Margin= Reading Level + Correct Factor – Limit

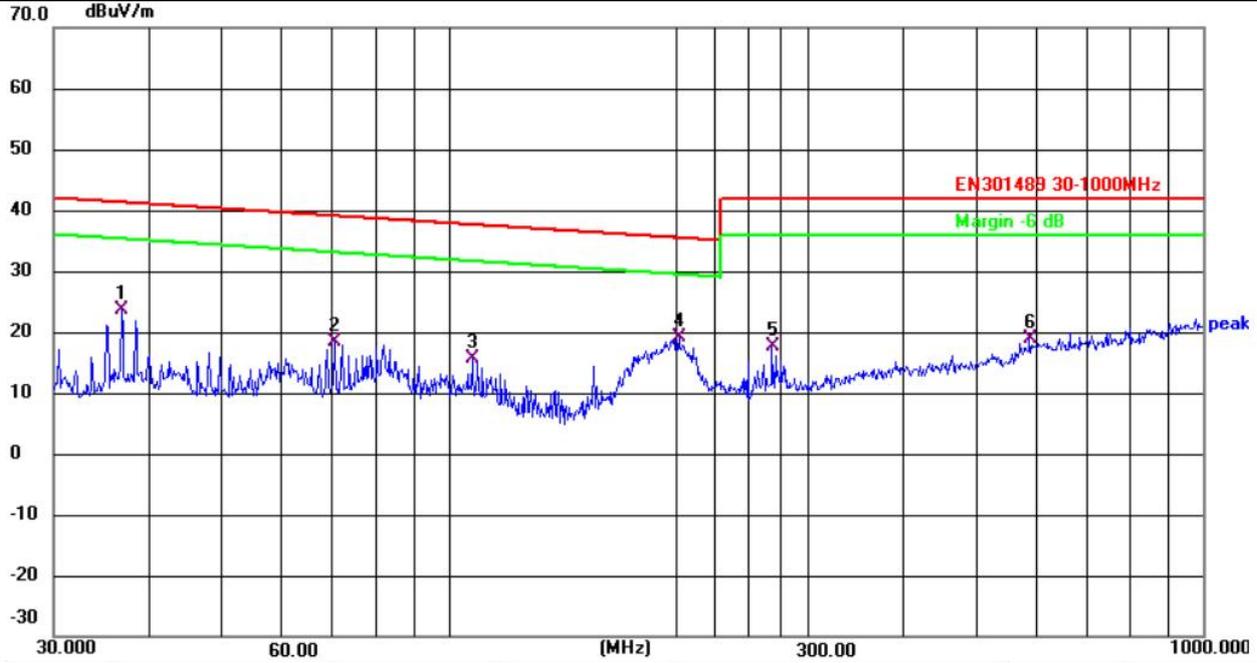
Correct Factor=Lisn Factor+Cable Factor+Insertion loss of Pulse Limiter





A.3 Radiated Disturbance

| | | | |
|--------------------------|------------------|-------------------|--------------|
| Test Model | P5 | Test Mode | TM1 |
| Environmental Conditions | 23.8°C, 52.1% RH | Test Engineer | Jay Luo |
| Pol. | Vertical | Detector Function | Quasi-peak |
| Distance | 3m | Test Voltage | AC 230V/50Hz |

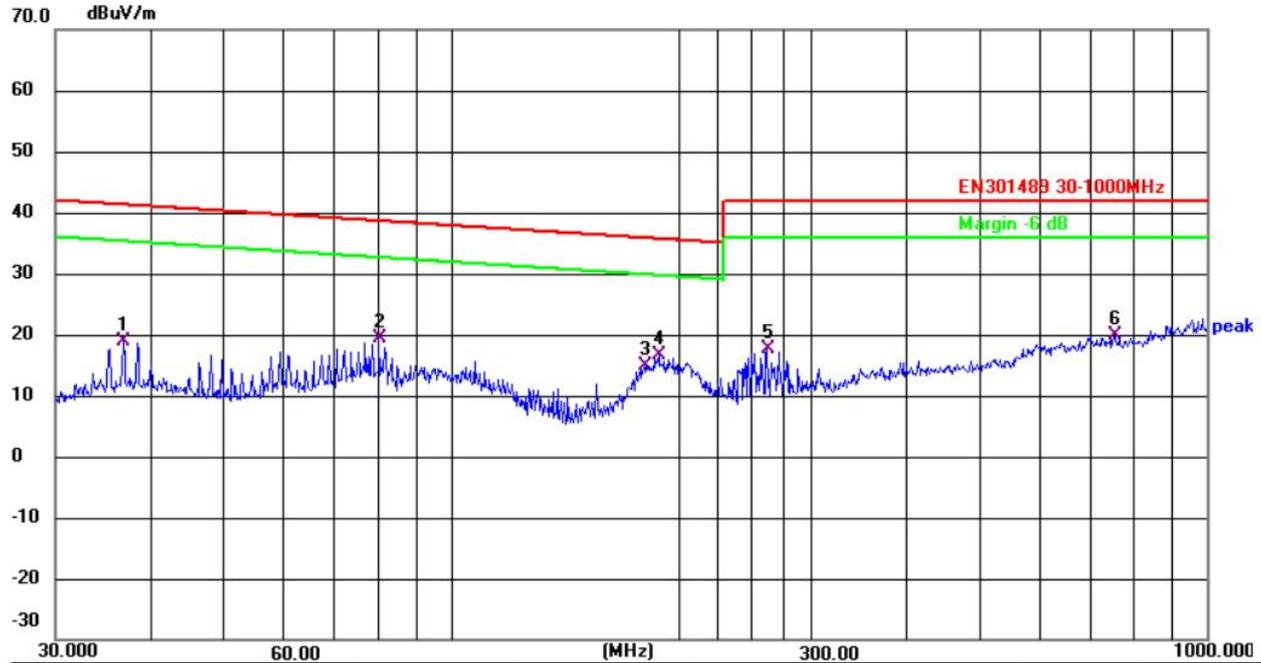


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 36.8953 | 41.23 | -17.69 | 23.54 | 41.29 | -17.75 | QP |
| 2 | 70.5836 | 37.88 | -19.49 | 18.39 | 39.06 | -20.67 | QP |
| 3 | 107.5101 | 34.41 | -18.84 | 15.57 | 37.61 | -22.04 | QP |
| 4 | 202.1005 | 36.40 | -17.33 | 19.07 | 35.44 | -16.37 | QP |
| 5 | 268.4853 | 33.07 | -15.42 | 17.65 | 42.00 | -24.35 | QP |
| 6 | 588.9051 | 29.46 | -10.63 | 18.83 | 42.00 | -23.17 | QP |





| | | | |
|---------------------------------|------------------|--------------------------|--------------|
| Test Model | P5 | Test Mode | TM1 |
| Environmental Conditions | 23.8°C, 52.1% RH | Test Engineer | Jay Luo |
| Pol. | Horizontal | Detector Function | Quasi-peak |
| Distance | 3m | Test Voltage | AC 230V/50Hz |



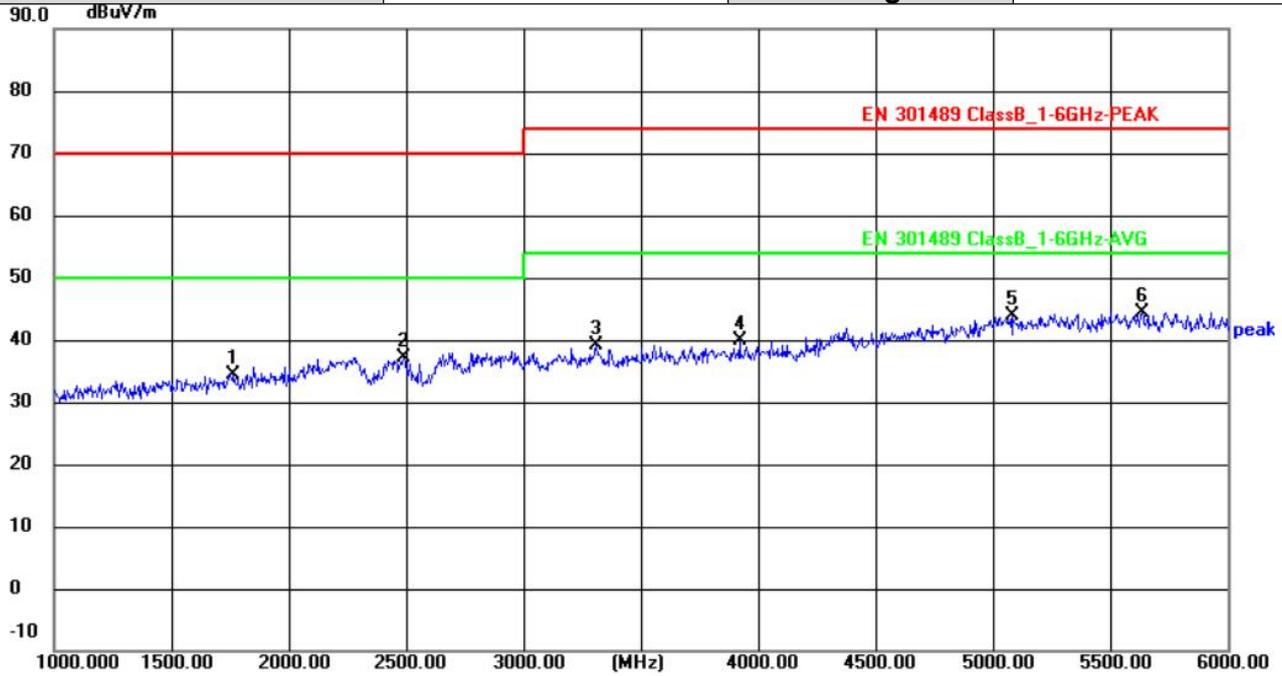
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 36.8953 | 36.40 | -17.43 | 18.97 | 41.29 | -22.32 | QP |
| 2 | 80.3619 | 39.37 | -19.97 | 19.40 | 38.61 | -19.21 | QP |
| 3 | 181.2834 | 35.11 | -20.22 | 14.89 | 35.82 | -20.93 | QP |
| 4 | 188.4125 | 36.39 | -19.82 | 16.57 | 35.69 | -19.12 | QP |
| 5 | 261.9753 | 34.29 | -16.69 | 17.60 | 42.00 | -24.40 | QP |
| 6 | 755.3873 | 29.16 | -9.28 | 19.88 | 42.00 | -22.12 | QP |

Note: Margin= Reading Level + Correct Factor – Limit
 Correct Factor=Antenna Factor+Cable Factor – Pre-Amplifier Factor





| | | | |
|---------------------------------|------------------|--------------------------|------------------|
| Test Model | P5 | Test Mode | TM1 (Above 1GHz) |
| Environmental Conditions | 23.5°C, 52.1% RH | Test Engineer | Jay Luo |
| Pol. | Horizontal | Detector Function | Peak+Average |
| Distance | 3m | Test Voltage | AC 230V/50Hz |

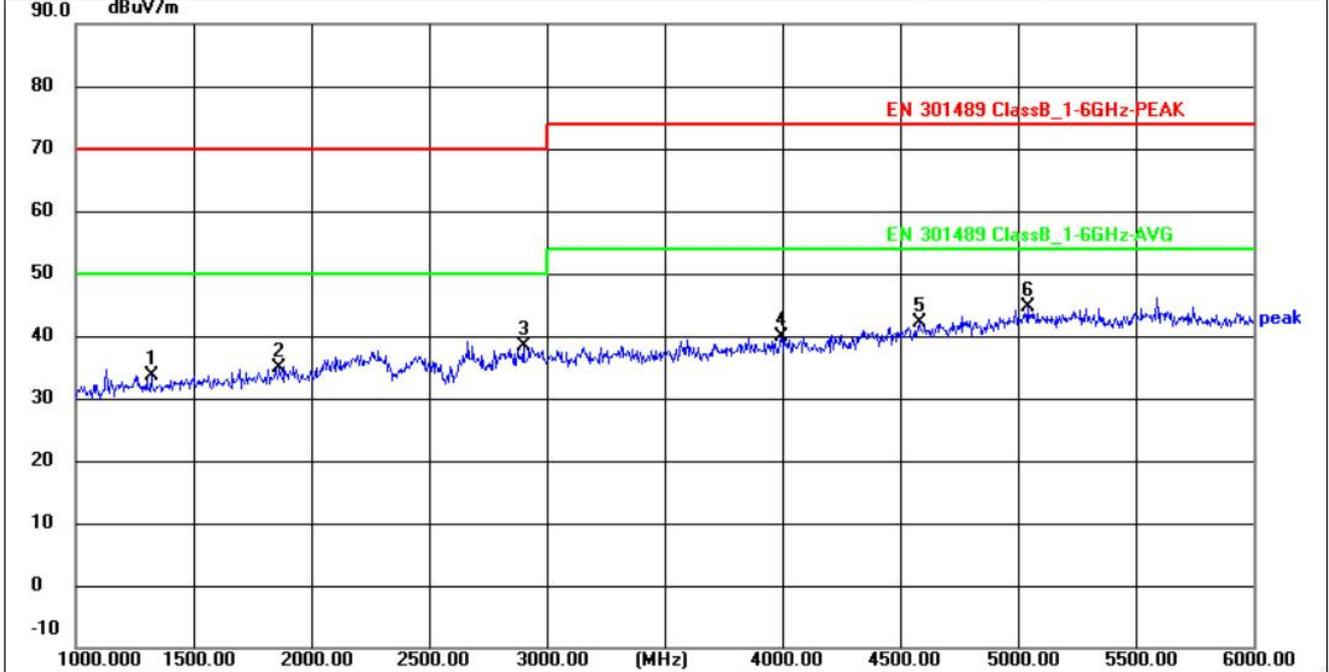


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 1765.000 | 48.30 | -13.82 | 34.48 | 70.00 | -35.52 | peak |
| 2 | 2490.000 | 48.17 | -11.04 | 37.13 | 70.00 | -32.87 | peak |
| 3 | 3310.000 | 48.15 | -9.12 | 39.03 | 74.00 | -34.97 | peak |
| 4 | 3920.000 | 47.26 | -7.49 | 39.77 | 74.00 | -34.23 | peak |
| 5 | 5085.000 | 46.46 | -2.63 | 43.83 | 74.00 | -30.17 | peak |
| 6 | 5635.000 | 47.03 | -2.56 | 44.47 | 74.00 | -29.53 | peak |





| | | | |
|---------------------------------|------------------|--------------------------|------------------|
| Test Model | P5 | Test Mode | TM1 (Above 1GHz) |
| Environmental Conditions | 23.5°C, 52.1% RH | Test Engineer | Jay Luo |
| Pol. | Vertical | Detector Function | Peak+Average |
| Distance | 3m | Test Voltage | AC 230V/50Hz |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 1320.000 | 48.91 | -15.23 | 33.68 | 70.00 | -36.32 | peak |
| 2 | 1865.000 | 48.81 | -13.81 | 35.00 | 70.00 | -35.00 | peak |
| 3 | 2900.000 | 48.28 | -9.94 | 38.34 | 70.00 | -31.66 | peak |
| 4 | 3995.000 | 48.53 | -8.55 | 39.98 | 74.00 | -34.02 | peak |
| 5 | 4580.000 | 48.42 | -6.19 | 42.23 | 74.00 | -31.77 | peak |
| 6 | 5040.000 | 48.73 | -4.05 | 44.68 | 74.00 | -29.32 | peak |

Note:

- Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- Measurements above show only up to 6 maximum emissions noted.
- Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Factor = Antenna Factor + Cable Loss + Amplifier Factor
 Emission Level = Reading level + Factor
 Margin = Emission Level - Limit





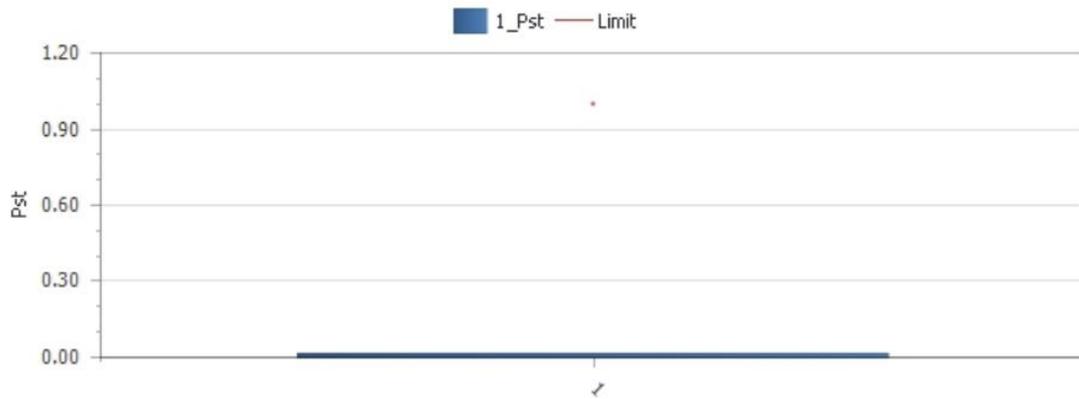
A.4 Harmonic Current Emissions

Because power of EUT less than 75W, According standard EN 61000-3-2, Harmonic current unnecessary to test.

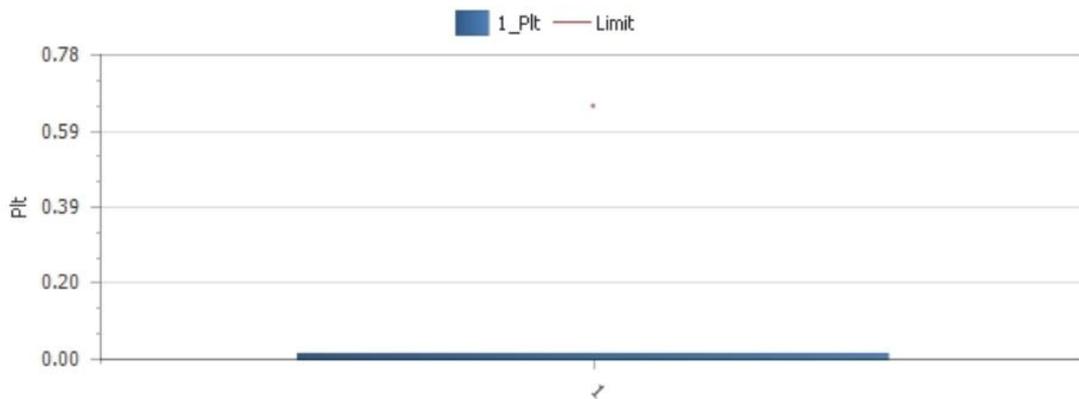
A.5 Voltage Fluctuation and Flicker

| | | | |
|---------------------------------|------------------|----------------------|---------|
| Test Model | P5 | Test Engineer | Jay Luo |
| Test Voltage | AC 230V/50Hz | Test Mode | TM1 |
| Environmental Conditions | 25.0°C, 55.0% RH | | |

Pst and Limit



Plt and Limit



Relevant Parameter and Judgement During Test Period

| | | | | |
|-----------------------------|--------|-----------------|-------|------|
| Vrms at the end of test (V) | 230.08 | | | |
| Error Max (%) | | Test Limit (%) | | |
| T-max (ms) | 0.00 | Test Limit (ms) | 500 | Pass |
| dc (%) | 0.00 | Test Limit (%) | 3.30 | Pass |
| dmax (%) | 0.00 | Test Limit (%) | 4.00 | Pass |
| Pst | 0.015 | Test Limit | 1.000 | Pass |
| Plt | 0.015 | Test Limit | 0.650 | Pass |



**A.6 RF Electromagnetic Field (80 MHz - 6000 MHz)**

| | | | |
|---------------------------------|------------------|----------------------|--------------|
| Test Model | P5 | Test Engineer | Jay Luo |
| Environmental Conditions | 23.2°C, 52.2% RH | Test Voltage | AC 230V/50Hz |

TM1 Test Result:

| EUT Working Mode | Antenna Polarity | Frequency (MHz) | Fielded Strength (V/m) | Observation | Position | Conclusion |
|------------------|------------------|-----------------|------------------------|-------------|---------------------------------------|------------|
| Operating Mode | Vertical | 80-6000 | 3 | CT, CR | Front, Right, Left, Back, Top, Bottom | Pass |
| | Horizontal | 80-6000 | 3 | CT, CR | Front, Right, Left, Back, Top, Bottom | Pass |

TM2-TM3 Test Result:

| EUT Working Mode | Antenna Polarity | Frequency (MHz) | Fielded Strength (V/m) | Observation | Position | Conclusion |
|------------------|------------------|-----------------|------------------------|-------------|---------------------------------------|------------|
| Operating Mode | Vertical | 80-6000 | 3 | See Note | Front, Right, Left, Back, Top, Bottom | Pass |
| | Horizontal | 80-6000 | 3 | See Note | Front, Right, Left, Back, Top, Bottom | Pass |
| Idle | Vertical | 80-6000 | 3 | See Note | Front, Right, Left, Back, Top, Bottom | Pass |
| | Horizontal | 80-6000 | 3 | See Note | Front, Right, Left, Back, Top, Bottom | Pass |

Note: The EUT performance complied with performance criteria for CT&CR to Function and there is no any degradation of performance and function.

For equipment that supports a PER or FER, the minimum performance level shall be PER or FER less than or equal to 10%.



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



A.7 Electrostatic Discharge

Electrostatic Discharge Test Results

| | | | |
|--|---|---------------------------|---------------------------|
| Standard | <input type="checkbox"/> IEC 61000-4-2 <input checked="" type="checkbox"/> EN 61000-4-2 | | |
| Applicant | Shenzhen PXN Electronics Technology Co., Ltd | | |
| EUT | Game Controller | Temperature | 22.5°C |
| M/N | P5 | Humidity | 52.6% |
| Criterion | B | Pressure | 1021mbar |
| Test Mode | TM1-TM3 | Test Engineer | Jay Luo |
| TEST RESULT OF TM1 | | | |
| Test Voltage | Coupling | Observation | Result (Pass/Fail) |
| ±2KV, ±4kV | Contact Discharge | TT, TR | Pass |
| ±2KV, ±4kV, ±8kV | Air Discharge | TT, TR | Pass |
| ±2KV, ±4kV | Indirect Discharge HCP | TT, TR | Pass |
| ±2KV, ±4kV | Indirect Discharge VCP | TT, TR | Pass |
| TEST RESULT OF TM2-TM3 | | | |
| Test Voltage | Coupling | Result (Pass/Fail) | |
| ±2KV, ±4kV | Contact Discharge | Pass | |
| ±2KV, ±4kV, ±8kV | Air Discharge | Pass | |
| ±2KV, ±4kV | Indirect Discharge HCP | Pass | |
| ±2KV, ±4kV | Indirect Discharge VCP | Pass | |
| Note: The EUT performance complied with performance criteria for TT&TR Function and there is no any degradation of performance and function. | | | |





A.8 Electrical Fast Transient Immunity

Electrical Fast Transient/Burst Test Results

| | | | |
|----------------------|---|--------------------|--------|
| Standard | <input type="checkbox"/> IEC 61000-4-4 <input checked="" type="checkbox"/> EN 61000-4-4 | | |
| Applicant | Shenzhen PXN Electronics Technology Co., Ltd | | |
| EUT | Game Controller | Temperature | 22.7°C |
| M/N | P5 | Humidity | 52.4% |
| Test Mode | TM1-TM3 | Criterion | B |
| Test Engineer | Jay Luo | | |

TEST RESULT OF TM1

| Line | Test Voltage | Polarity | Observation | Result (Pass/Fail) |
|------|--------------|----------|-------------|--------------------|
| L | 1KV | +/- | TT, TR | Pass |
| N | 1KV | +/- | TT, TR | Pass |
| L-N | 1KV | +/- | TT, TR | Pass |

TEST RESULT OF TM2-TM3

| Line | Test Voltage | Polarity | Result (Pass/Fail) |
|------|--------------|----------|--------------------|
| L | 1KV | +/- | Pass |
| N | 1KV | +/- | Pass |
| L-N | 1KV | +/- | Pass |





A.9 RF Common Mode

| Injected Currents Susceptibility Test Results | | | |
|---|---|-------------|--------|
| Standard | <input type="checkbox"/> IEC 61000-4-6 <input checked="" type="checkbox"/> EN 61000-4-6 | | |
| Applicant | Shenzhen PXN Electronics Technology Co., Ltd | | |
| EUT | Game Controller | Temperature | 21.9°C |
| M/N | P5 | Humidity | 53.8% |
| Test Mode | TM1-TM3 | Criterion | A |
| Test Engineer | Jay Luo | | |

| TEST RESULT OF TM1 | | | | |
|--|------------------------|-------------------|--------------------|--------------------|
| Frequency Range (MHz) | Strength (Unmodulated) | Injected Position | Observation | Result (Pass/Fail) |
| 0.15 ~ 80 | 3V | AC Mains | CT, CR | Pass |
| TEST RESULT OF TM2-TM3 | | | | |
| Frequency Range (MHz) | Strength (Unmodulated) | Injected Position | Result (Pass/Fail) | |
| 0.15 ~ 80 | 3V | AC Mains | Pass | |
| Remark: 1. Modulation Signal: 1kHz 80% AM | | | | |

Note: The EUT performance complied with performance criteria for CT&CR Function and there is no any degradation of performance and function.

For equipment that supports a PER or FER, the minimum performance level shall be PER or FER less than or equal to 10%.





A.10 Surges, Line to Line and Line to Ground

| Surge Immunity Test Result | | | |
|----------------------------|---|-------------|--------|
| Standard | <input type="checkbox"/> IEC 61000-4-5 <input checked="" type="checkbox"/> EN 61000-4-5 | | |
| Applicant | Shenzhen PXN Electronics Technology Co., Ltd | | |
| EUT | Game Controller | Temperature | 24.9°C |
| M/N | P5 | Humidity | 52.9% |
| Test Mode | TM1-TM3 | Criterion | B |
| Test Engineer | Jay Luo | | |

| TEST RESULT OF TM1 | | | | | | |
|--|----------|---------------------|-----------------|--------------------|--------------------|--------------------|
| Location | Polarity | Phase Angle | Number of Pulse | Pulse Voltage (KV) | Observation | Result (Pass/Fail) |
| L-N | + | 0°, 90°, 180°, 270° | 5 | 1.0 | TT, TR | Pass |
| | - | 0°, 90°, 180°, 270° | 5 | 1.0 | TT, TR | Pass |
| | | | | | | |
| | | | | | | |
| TEST RESULT OF TM2-TM3 | | | | | | |
| Location | Polarity | Phase Angle | Number of Pulse | Pulse Voltage (KV) | Result (Pass/Fail) | |
| L-N | + | 0°, 90°, 180°, 270° | 5 | 1.0 | Pass | |
| | - | 0°, 90°, 180°, 270° | 5 | 1.0 | Pass | |
| | | | | | | |
| | | | | | | |
| Note: Verification shall be performed on the generators and coupling/decoupling network prior to the test. | | | | | | |





A.11 Voltage Dips/Interruptions Immunity Test

| Voltage Dips And Interruptions Test Results | | | |
|---|---|-------------|--------|
| Standard | <input type="checkbox"/> IEC 61000-4-11 <input checked="" type="checkbox"/> EN 61000-4-11 | | |
| Applicant | Shenzhen PXN Electronics Technology Co., Ltd | | |
| EUT | Game Controller | Temperature | 24.5°C |
| M/N | P5 | Humidity | 53.7% |
| Test Mode | TM1-TM3 | Criterion | B&C |
| Test Engineer | Jay Luo | | |

| TEST RESULT OF TM1 | | | | |
|--------------------------------|--|--------------------------|--------------------|--------------------|
| Test Level % U _T | Voltage Dips & Short Interruptions % U _T | Duration (in periods) | Observation | Result (Pass/Fail) |
| 0 | 100 | 0.5P | TT, TR | Pass |
| 0 | 100 | 1P | TT, TR | Pass |
| 70 | 30 | 25P | TT, TR | Pass |
| 0 | 100 | 250P | TT, TR | Pass |
| TEST RESULT OF TM2-TM3 | | | | |
| Test Level % U _T | Voltage Dips & Short Interruptions % U _T | Duration (in periods) | Result (Pass/Fail) | |
| 0 | 100 | 0.5P | Pass | |
| 0 | 100 | 1P | Pass | |
| 70 | 30 | 25P | Pass | |
| 0 | 100 | 250P | Pass | |



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity