

RADIATED EMISSION TEST

FCC Parts 15.109(a) Radiated Emission Results

Operating Mode	ITE	Temperature	23°C
Test Input Power	110V 60Hz	Relative Humidity	55%
Line Under Test	AC Mains	Atmospheric Pressure	1030mbar
		Tested By	Thor Wen Lei

Spurious Emissions ranging from 30MHz – 1GHz

Frequency (MHz)	Q-P Value (dB μ V/m)	Q-P Margin (dB)	Azimuth (Degrees)	Height (cm)	Polarisation (H/V)
47.9681	36.7	-3.3	213	101	V
59.9641	35.1	-4.9	126	101	V
83.9561	37.3	-2.7	167	268	V
103.9571	4.9	-2.6	244	101	V
405.7841	39.4	-6.7	83	100	H
797.7001	39.2	-6.8	67	100	H

Spurious Emissions above 1GHz

Frequency (GHz)	Peak Value (dB μ V/m)	Average Value (dB μ V/m) Note 2	Average Margin (dB) Note 3	Azimuth (Degrees)	Height (cm)	Pol (H/V)
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Notes

1. All possible modes of operation were investigated. Only the worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.
2. As the measured peak shows compliance to the average limit, as such no average measurement was required.
3. The average margin indicates the margin of the measured peak value below the average limit.
4. “--” indicates no emissions were found and shows compliance to the limits.
5. Quasi-peak measurement was used for frequency measurement up to 1GHz. Average and peak measurements were used for emissions above 1GHz.
6. A “-ve” margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
7. EMI receiver Resolution Bandwidth (RBW) and Video Bandwidth (VBW) settings:
30MHz - 1GHz
 RBW: 120kHz VBW: 1MHz
>1GHz
 RBW: 1MHz VBW: 1MHz
8. The upper frequency of radiated emission investigations was according to requirements stated in Section 15.33(a) for intentional radiators & Section 15.33(b) for unintentional radiators.
9. Radiated Emissions Measurement Uncertainty
 All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95%, with a coverage factor of 2, in the range 30MHz – 40GHz (QP only @ 3m & 10m) is ± 4.3 dB (for EUTs $< 0.5m \times 0.5m \times 0.5m$).