

CONDUCTED EMISSIONS MEASUREMENTS

Test condition and setup

All the equipment is placed and setup according to the ANSI C63.4 –1992.

The EUT is assembled on a wooden table, which is 80 cm high, is placed 40 cm from the back-wall, which is a vertical conducting plane. One LISN is for EUT, the other LISN is for support equipment. They are all placed on the conductive ground. The EUT's LISN connect a line switch box for selecting L1 or L2, then connect to a preamplifier and spectrum.

The spectrum scans from 450KHz to 30MHz. Conducted emission levels are detected at maximum peak mode. But if the maximum peak mode failed, it will be measured by CISPR's quasi-peak detection mode.

While testing, there is the worst-emission plot printed at peak detection mode, and there are more than 6 highest emissions relative to limit recorded. The plot is kept as the original data, not included in test report.

List of test Instrument

Instrument Name	Model No.	Brand	Serial No.	<u>Calibration Date</u>	
				Last time	Next time
EMI Receiver	8546A	H P	3520A00242	06/29/01	06/29/02
RF Filter Section	85460A	H P	3448A00217	06/29/01	06/29/02
LISN (EUT)	LISN-01	TRC	9912-03,04	12/09/01	12/09/02
LISN (Support E.)	LISN-01	TRC	9912-05	01/04/02	01/04/03
Switch/Control Unit (< 30MHz)	3488A	HP	N/A	11/20/01	11/20/02
Auto Switch Box (< 30MHz)	ASB-01	TRC	9904-01	11/20/01	11/20/02

The level of confidence of 95%, the uncertainty of measurement of conducted emission is ± 2.4 dB.

Conducted Emission Test Result

Testing room : Temperature : 24 ° C Humidity : 57 % RH

Line 1

Frequency (kHz)	READING AMPLITUDE			LIMIT		Margin (dB)
	Peak (dBµV)	Quasi-Peak (dBµV)	Average (dBµV)	Quasi-Peak (dBµV)	Average (dBµV)	
549.00	33.57	---	---	48.00	---	-14.43
620.00	31.93	---	---	48.00	---	-16.07
705.00	35.12	---	---	48.00	---	-12.88
729.00	30.07	---	---	48.00	---	-17.93
798.00	34.05	---	---	48.00	---	-13.95
813.00	34.33	---	---	48.00	---	-13.67
904.00	31.31	---	---	48.00	---	-16.69
1021.00	29.82	---	---	48.00	---	-18.18
1192.00	29.80	---	---	48.00	---	-18.20
1792.00	31.00	---	---	48.00	---	-17.00

Line 2

Frequency (kHz)	READING AMPLITUDE			LIMIT		Margin (dB)
	Peak (dBµV)	Quasi-Peak (dBµV)	Average (dBµV)	Quasi-Peak (dBµV)	Average (dBµV)	
534.00	37.14	---	---	48.00	---	-10.86
568.00	44.99	---	---	48.00	---	-3.01
586.00	38.28	---	---	48.00	---	-9.72
910.00	37.29	---	---	48.00	---	-10.71
1015.00	36.77	---	---	48.00	---	-11.23
1232.00	34.44	---	---	48.00	---	-13.56
1382.00	39.07	---	---	48.00	---	-8.93
1758.00	38.76	---	---	48.00	---	-9.24
2000.00	35.59	---	---	48.00	---	-12.41
2870.00	37.13	---	---	48.00	---	-10.87

**The reading amplitudes are all under limit.*