

Re-test Radiated Emission Measurement Results on adding Audio/CD Play

(1) 30MHz to 1000GHz Frequency Range Measurement Results

Distance: 10Meters

All the emissions not report below are too low against the CISPR 22 Class B limit.

Date of Test : Jun. 27, 2001 Temperature : 25°C

EUT : CD-RW DRIVE Humidity : 42%

Test Mode : Audio/CD Play

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB
33.862	19.23	1.19	- 4.21	16.21	30.00	13.79
67.725	12.52	1.70	- 1.33	12.89	30.00	17.11
135.438	19.79	2.61	- 2.45	19.95	30.00	10.05
169.308	20.42	2.97	- 3.03	20.36	30.00	9.64
203.170	20.95	3.23	- 3.85	20.33	30.00	9.67
237.039	22.27	3.48	- 3.02	22.73	37.00	14.27
270.897	23.43	3.84	- 2.69	24.58	37.00	12.42
338.632	13.62	4.41	2.12	20.15	37.00	16.85
406.362	14.68	4.85	5.66	25.19	37.00	11.81
474.090	15.91	5.35	1.06	22.32	37.00	14.68
575.678	19.23	6.13	- 1.28	24.08	37.00	12.92
677.275	20.39	6.70	- 0.35	26.74	37.00	10.26

Remarks : 1. All readings are Quasi-Peak values.

Date of Test : Jun. 27 ,2001 Temperature : 25°C
 EUT : CD-RW DRIVE Humidity : 42%
 Test Mode : Audio/CD Play

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading		Emission Level		Margin dB
			Vertical dBμV		Vertical dBμV/m	Limits dBμV/m	
33.859	21.66	1.19	- 2.68		20.17	30.00	9.83
67.722	12.61	1.70	0.88		15.19	30.00	14.81
135.450	19.31	2.61	- 2.68		19.24	30.00	10.76
169.314	20.82	2.97	- 2.74		21.05	30.00	8.95
203.178	20.72	3.23	- 2.77		21.18	30.00	8.82
237.042	21.47	3.48	- 3.48		21.47	37.00	15.53
270.906	23.58	3.84	- 2.47		24.95	37.00	12.05
338.639	13.42	4.41	5.02		22.85	37.00	14.15
406.367	15.32	4.85	- 1.92		18.25	37.00	18.75
474.095	16.81	5.35	- 1.44		20.72	37.00	16.28
541.823	18.62	5.88	0.53		25.03	37.00	11.97
643.415	19.37	6.61	- 2.64		23.34	37.00	13.66

Remarks : 1. All readings are Quasi-Peak values.

(2)1GHz ~ 7GHz Frequency Range Measurement Results

Distance: 3Meters

The emissions not report below are too low against the FCC official limits.

Date of Test : Jun 27, 2001 Temperature : 23°C

EUT : CD-RW DRIVE Humidity : 62%

Test Mode : Audio/CD Play

Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Pre-Amp Factor dB	Meter Reading Horizontal dBμV	Emission Level (Peak) Horizontal dBμV/m	Limits dBμV/m	Margin dB
1068.00	25.68	5.49	35.32	57.00	52.85	73.50	20.65
1334.00	26.00	6.00	35.02	56.00	52.98	73.50	20.52
1603.00	26.82	6.52	34.74	47.00	45.60	73.50	27.90
1876.00	28.53	7.06	34.42	48.00	49.17	73.50	24.33
2404.00	29.87	7.86	34.41	44.00	47.32	73.50	26.18

Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Pre-Amp Factor dB	Meter Reading Vertical dBμV	Emission Level (Peak) Vertical dBμV/m	Limits dBμV/m	Margin dB
1071.00	25.68	5.49	35.32	52.00	47.85	73.50	25.65
1339.00	26.00	6.01	35.02	53.00	49.99	73.50	23.51
1600.00	26.82	6.52	34.74	46.00	44.60	73.50	28.90
1868.00	28.48	7.04	34.44	45.00	46.08	73.50	27.42
2401.00	29.86	7.86	34.41	42.00	45.31	73.50	28.19

- Remark :
1. Measurement at Anechoic Chamber.
 2. Emission Level = Antenna Factor + Cable Loss + Meter Reading – Pre-Amp Factor.
 3. Measurement was up to 7GHz, but above 3GHz the emissions level were too low against the official limit and not report.