

APPLICATION FOR CERTIFICATION

On Behalf of
LITE-ON IT Corp.

CD-RW DRIVE

Model : (1)LTR-32123S (2)LTR-40125S (3)AI-CDRW401248B
(4)AI-CDRW321040B

FCC ID: PPQRW1003

Prepared for : LITE-ON IT Corp.
6F., 16, Sec. 4, Nanking E. Rd.,
Taipei, Taiwan, R.O.C.

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Date of Test : Oct. 25, 2001 ~ Jan. 23, 2002
Date of Report : Feb. 08, 2002

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TEST REPORT CERTIFICATION

Applicant : LITE-ON IT Corp.
 Manufacturer #1 : LITE-ON IT Corp.
 Manufacturer #2 : LITE-ON Electronic Technology (HK) Co., Ltd.
 EUT Description : CD-RW DRIVE
 FCC ID : PPQRW1003
 (A) MODEL NO. : (1)LTR-32123S (2)LTR-40125S (3)AI-CDRW401248B (4)AI-CDRW321040B
 (B) SERIAL NO. : N/A
 (C) POWER SUPPLY : DC 5V-1.5V/12V-1.5V
 (Via PC, AC 120V/60Hz)

Measurement Procedure Used :

FCC RULES AND CISPR 22 (DOCKET NO. 92-152, SEP. 1993) AND
 FCC / ANSI C63.4-1992
 (FCC Part 15/2001 and CISPR 22/1997)

The device described above was tested by TAIWAN TOKIN EMC ENG. CORP. to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the CISPR 22 Class B limits both radiated and conducted emissions and above 1000MHz compared to the FCC Part 15 Subject B radiated limit. The measurement results are contained in this test report and TAIWAN TOKIN EMC ENG. CORP. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits.

The measurement results are contained in this test report and TAIWAN TOKIN EMC ENG. CORP. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Taiwan Tokin EMC Eng. corp.

Date of Test : Oct. 25, 2001 ~ Jan. 23, 2002

Prepared by : Julie Hsu Feb 08 2002
 (Julie Hsu/Assistant Officer)

Test Engineer : Allen Wang Feb 08 2002
 (Allen Wang/ Deputy Manager)

Approve & Authorized Signer : Leon Liu Feb 8 2002
 (Leon Liu/Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description : CD-RW DRIVE

Model Number : (1)LTR-32123S (2)LTR-40125S (3)AI-CDRW401248B (4)AI-CDRW321040B

Above all models have the same circuit & PCB, the differences are:

No.	Difference M/N	Brand	Processing Velocity
1.	LTR-32123S	LITE-ON	32x12x40x
2.	LTR-40125S	LITE-ON	40x12x48x
3.	AI-CDRW401248B	TDK	40x12x48x
4.	AI-CDRW321040B	TDK	32x12x40x

The brand "LITE-ON" M/N (1)LTR-32123S and (2)LTR-40125S are representative selected in the test and included in this report.

FCC ID : PPQRW1003

Brand Name : (1)LITE-ON (2)TDK

Applicant : LITE-ON IT Corp.
6F., 16, Sec. 4, Nanking E. Rd., Taipei, Taiwan, R.O.C.

Manufacturer #1 : LITE-ON IT Corp.
3F., 60, Park Avenue. II, Hsinchu Science-Based Ind. Park, Hsinchu City, Taiwan, R.O.C.

Manufacturer #2 : LITE-ON Electronic Technology (HK) Co., Ltd.
N., San Heng Rd., Heng Jiao Ind. Zone, Xi Chen Zone, Shi Jie Town, Dong Guan City Guang Dong Province, China

Data of Receipt of Sample : Oct. 24, 2001 & Jan. 17, 2002

Date of Test : Oct. 25, 2001 ~ Jan. 23, 2002

1.2. Tested Supporting System Details

1.2.1. PERSONAL COMPUTER #1 (For M/N LTR-32123S Test Used)

Mother Board	:	ASUS(Intel 815), M/N CUSL2, S/N 07Z7Y31475, FCC by DoC
CPU	:	Intel Pentium III 667MHz
RAM	:	128MB (PC-133)
Case	:	Enlight, M/N EN-7105A
S.P.S.	:	FSP, M/N FSP250-60PFN, S/N S00769632
Floppy Driver 3.5"	:	Mitsumi, M/N D353M3, S/N 0G04JT1209
Hard Disk Driver	:	Seagate, M/N ST34321A, S/N VT193713
VGA Card	:	CP, M/N CM64A, S/N C05E168246 FCC by DoC
Sound Card	:	Dataexpert, M/N MED6617
CD-RW DRIVE (EUT)	:	LITE-ON, M/N LTR-32123S
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.2. PERSONAL COMPUTER #2 (For M/N LTR-40125S Test Used)

Model Number	:	PC763
Serial Number	:	TA346U1709
FCC ID	:	AO9-PC76X
Manufacturer	:	Digital
Switching Power Supply	:	Astec, M/N SA-201-3440
Floppy Driver 3.5"	:	Teac Corp. M/N FD-235HF
Hard Disk Driver	:	Quantum, Model 240AT
Sound Card	:	Dataexpert, M/N MED6617
CD-RW DRIVE (EUT)	:	LITE-ON, M/N LTR-40125S
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.3. MONITOR #1 (For M/N LTR-32123S Test Used)

Model Number	:	0182-05N
Serial Number	:	23-05485
FCC ID	:	CMC769KM1
Manufacturer	:	IBM
Data Cable	:	Shielded, Undetachable, 1.5m
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.4. MONITOR #2 (For M/N LTR-40125S Test Used)

Model Number	:	0180-05N
Serial Number	:	23-58600
FCC ID	:	ARSCM569N
Manufacturer	:	IBM
Data Cable	:	Shielded, Undetachable, 1.5m Boned a ferrite core
Power Cord	:	Non-Shielded, Detachable, 1.8m

1.2.5. KEYBOARD

Model Number	:	5121
Serial Number	:	J83300803
FCC ID	:	E5XKBM104M10UC
Manufacturer	:	BTC
Data Cable	:	Shielded, Undetachable, 1m

1.2.6. PRINTER

Model Number	:	2225C+
Serial Number	:	3007S68643
FCC ID	:	DSI6XU2225
Manufacturer	:	Hewlett Packard
Power Adapter	:	Hewlett Packard, M/N 82241A
Power Cord	:	Non-Shielded, Undetachable, 2.0m
Data Cable	:	Shielded, Detachable, 1.2m

1.2.7. MODEM

Model Number	:	DM-1414
Serial Number	:	980034383
FCC ID	:	IFAXDM1414
Manufacturer	:	Accex
Data Cable	:	Shielded, Detachable, 1.2m
Power Adapter	:	Amigo, M/N AM-91000A
		Non-Shielded, Undetachable, 1.8m

1.2.8. MOUSE

Model Number	:	M-S35
Serial Number	:	LZA82103157
FCC ID	:	DZL211029
Manufacturer	:	Logitech
Data Cable	:	Non-Shielded, Undetachable, 1.8m

1.2.9. USB MOUSE #1

Model Number	:	CREUBB
Serial Number	:	N/A
FCC ID	:	NHM-CREUBE
Manufacturer	:	CRE Technology Co., Ltd.
Data Cable	:	Shielded, Undetachable, 1.8m

1.2.10. USB MOUSE #2

Model Number	:	CREUBB
Serial Number	:	N/A
FCC ID	:	NHM-CREUBE
Manufacturer	:	CRE Technology Co., Ltd.
Data Cable	:	Shielded, Undetachable, 1.8m

1.2.11. SPEAKER #1(For M/N LTR-32123S Test Used)

Model Number	:	J-008
Serial Number	:	J80547826
Manufacturer	:	(J-S) JAZZ HIPSTER
Data Cable	:	Non-Shielded, Undetachable, 1m

1.2.12. SPEAKER #2 (For M/N LTR-40125S Test Used)

Model Number	:	J-008
Serial Number	:	97-C-008923-T
Manufacturer	:	(J-S) JAZZ HIPSTER
Data Cable	:	Non-Shielded, Undetachable, 1m

1.2.13. MICROPHONE

Model Number	:	HD-303
Serial Number	:	N/A
Manufacturer	:	Multimedia Microphone System
Data Cable	:	Non-Shielded, Undetachable, 2.2m

1.2.14. WALKMAN

Model Number	:	RQ-P35LT-K
Serial Number	:	HA08562
Manufacturer	:	Panasonic
Data Cable	:	Non-Shielded, Detachable, 1.8m

1.2.15. EARPHONE #1

Model Number	:	N/A
Manufacturer	:	Panasonic
Earphone Cable	:	Non-Shielded, Undetachable, 1.1m

1.2.16. EARPHONE #2 (Link to EUT)

Model Number	:	N/A
Manufacturer	:	Panasonic
Earphone Cable	:	Non-Shielded, Undetachable, 1.1m

1.2.17. GAME PAD

Model Number	:	S-2300
Serial Number	:	N/A
Manufacturer	:	Super Cobra
Data Cable	:	Non-Shielded, Undetachable, 1.35m

1.3. Description of Test Facility

Site Description (No. 5 Open Site)	:	Jan. 29, 2001 Re-file on Federal Communication Commission FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046, U.S.A.
Site Description (No. 6 Open Site)	:	Aug. 10, 2000 File on Federal Communication Commission FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046, U.S.A.
Site Description (Anechoic Chamber)	:	May 16, 2000 Re-file on Federal Communication Commission FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046, U.S.A.
Name of Firm	:	Taiwan Tokin EMC Eng. Corp.
Site Location #1	:	No. 53-11, Tin-Fu Tsun, Lin-Kou, Taipei Hsien, Taiwan, R.O.C.
Site Location #2	:	No. 67-4, Tin-Fu Tsun, Lin-Kou, Taipei Hsien, Taiwan, R.O.C.
NVLAP Lab Code	:	200077-0

1.4. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conduction Test	150KHz~30MHz	± 2.66 dB
Radiation Test (Distance: 10m)	30MHz~300MHz	+4.5dB / -4.5dB
	300MHz~1000MHz	+3.88dB / -3.84dB

Remark : Uncertainty = $K_{uc}(y)$

2. POWERLINE CONDUCTED TEST

2.1. Test Equipment

The following test equipment are used during the power line conducted tests :

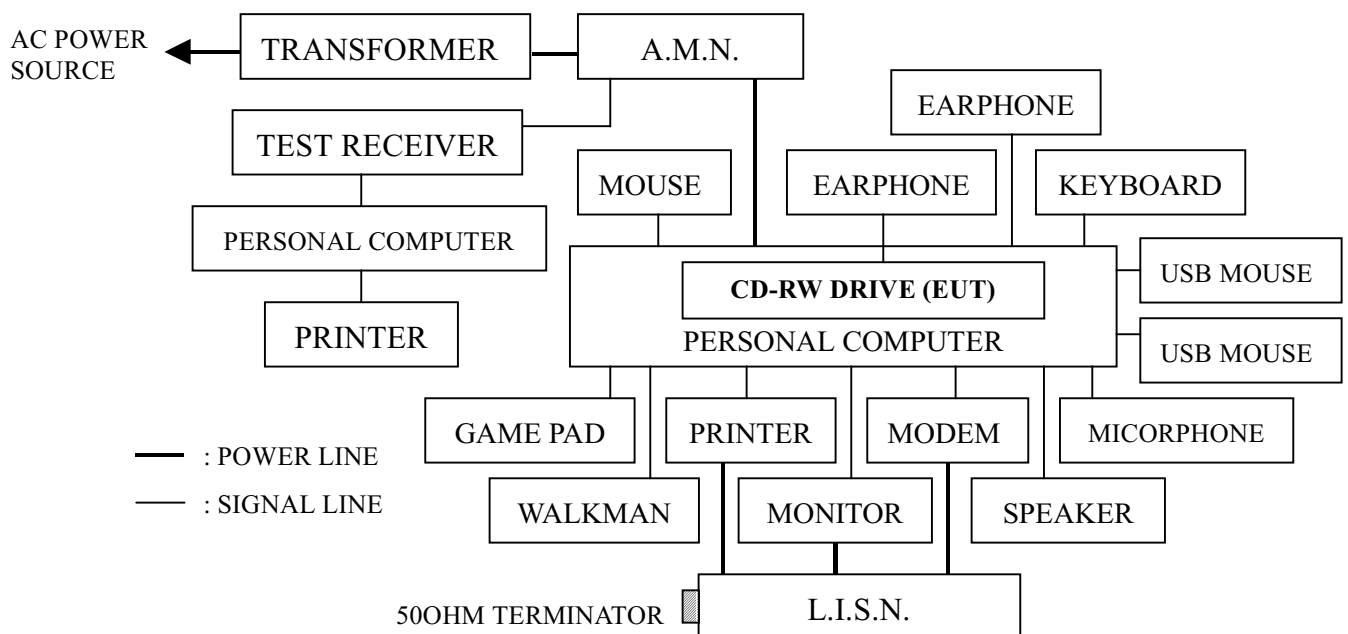
2.1.1. For No.3 Shielded Room

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCS 30	825442/020	Jun.29, 01'	1 Year
2.	L.I.S.N. # 1	Kyoritsu	KNW-407	8-1370-10	May 28, 01'	1 Year
3.	L.I.S.N. # 2	Kyoritsu	KNW-407	8-1370-9	May 28, 01'	1 Year

2.1.2. For No.4 Shielded Room

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	844591/015	Feb.26, 01'	1 Year
2.	L.I.S.N. # 1	Kyoritsu	KNW-407	8-1430-5	Nov.12, 01'	1 Year
3.	L.I.S.N. # 2	Kyoritsu	KNW-407	8-1430-6	Nov.12, 01'	1 Year

2.2. Block Diagram of Test Setup



2.3. Powerline Conducted Emission Limit (CISPR 22, Class B)

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150KHz ~ 500KHz	66 ~ 56 dB	56 ~ 46 dB
500KHz ~ 5MHz	56 dB	46 dB
5MHz ~ 30MHz	60 dB	50 dB

2.4. EUT's Configuration during Compliance Measurement

The following equipment are installed on RF LINE VOLTAGE measurement to meet the Commission requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

2.4.1. CD-RW DRIVE (EUT)

Model Number : (1)LTR-32123S (2)LTR-40125S
 Brand Name : LITE-ON
 Manufacturer #1 : LITE-ON IT Corp.
 Manufacturer #2 : LITE-ON Electronic Technology (HK) Co., Ltd.

2.4.2. Support Simulators : As in section 1.2.

2.5. Operating Condition of EUT

2.5.1. Setup the EUT and simulator as shown on 2.2.

2.5.2. Turned on the power of all equipments.

2.5.3. Data Read Mode: The personal computer sent "H" character to monitor through EUT (CD-RW DRIVE). The EUT was running self-test software "H" by MS-DOS during all testing.

2.5.4. Data Write Mode: The personal computer "Word, Excel, file" to EUT (CD-RW DRIVE) through "Nero 5.5.5.2." program. The EUT wrote down the Word, Excel, file during all testing.

2.5.5. Audio Play Mode: The EUT (CD-RW DRIVE) was played a CD-Disk and send the sound to earphone and speaker.

2.5.6. The other peripheral devices were drove and operated in turn during all testing.

2.5.7. Repeat above procedure from 2.5.3. to 2.5.6.

2.6. Test Procedure

The EUT (within PC) was connected to the power mains through a line impedance stabilization network (L.I.S.N. #1) and the other peripheral devices power cord were connected to the power mains through a line impedance stabilization network (L.I.S.N. #2). This provided a 50 ohm coupling impedance for the measuring equipment. (Please refer to the block diagram of the test setup and photographs.) Both sides of A.C. line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to FCC ANSI C63.4-1992 on conducted measurement.

The bandwidth of R&S Test Receiver ESCS 30 & ESHS10 was set at 9KHz & 10KHz.

The frequency range from 150KHz to 30MHz is checked.

Two kinds of test models with three kinds of test modes were done during conducted measurement and all the test results are listed in section 2.7.

2.7. Test Results

PASSED. All the test results are listed in the following pages. (12 Page)

Test Date : Oct. 25, 2001 Temperature : 24°C Humidity : 46%
 Test Date : Jan. 19, 2002 Temperature : 18.9°C Humidity : 66%

No.	Model	Mode	Reference Data #
1.	LTR-32123S	Data Read	28 (29, 30) 25 (26, 27)
2.		Data Write	31 (32, 33) 34 (35, 36)
3.		Audio Play	52 (53, 54) 49 (50, 51)
4.	LTR-40125S	Data Read	44 (45, 46) 43 (47, 48)
5.		Data Write	38 (39, 40) 37 (41, 42)
6.		Audio Play	50 (51, 52) 49 (53, 54)

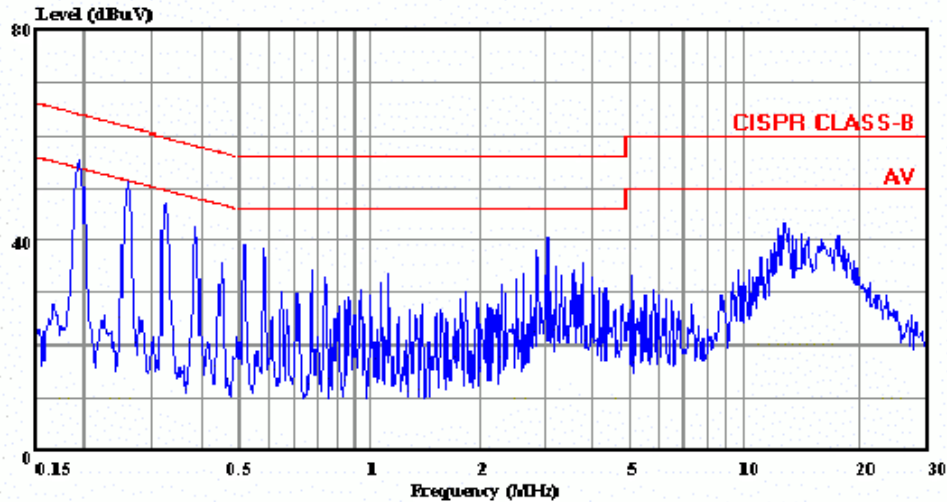
Test Model : LTR-32123S

TOKINTAIWAN TOKIN EMC ENG. CORP.
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Taipei Country, Taiwan, R.O.C.
Tel:02-26092133 Fax:02-26099303
Email:ttemc@ttemc.com.tw

Data#: 28

File#: Lite-on.emi

Date: 2001-10-25 Time: 11:33:16



Site : No.3 Shielded room
 Condition: CISPR CLASS-B KNW-407 NEUTRAL
 EUT : CD-RE DRIVE M/N:LTR-32123S
 Power : 120Vac/60Hz
 Memo : READ

Data#: 29 File#: Lite-on.emi Date: 2001-10-25 Time: 11:33:49

No.3 Shielded room

Site : No.3 Shielded room
 Condition: CISPR CLASS-B KNW-407 NEUTRAL
 EUT : CD-RE DRIVE M/N:LTR-32123S
 Power : 120Vac/60Hz
 Memo : READ

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 !	0.195	53.90	-9.90	63.80	53.50	0.20	0.20	QP
2	0.261	48.21	-13.17	61.38	47.81	0.20	0.20	QP
3	0.324	46.31	-13.28	59.59	45.91	0.20	0.20	QP
4	0.389	41.45	-16.63	58.08	41.05	0.20	0.20	QP
5	3.676	34.70	-21.30	56.00	33.90	0.40	0.40	QP
6	13.478	33.66	-26.34	60.00	32.16	0.80	0.70	QP

Data#: 30 File#: Lite-on.emi Date: 2001-10-25 Time: 11:34:31

No.3 Shielded room

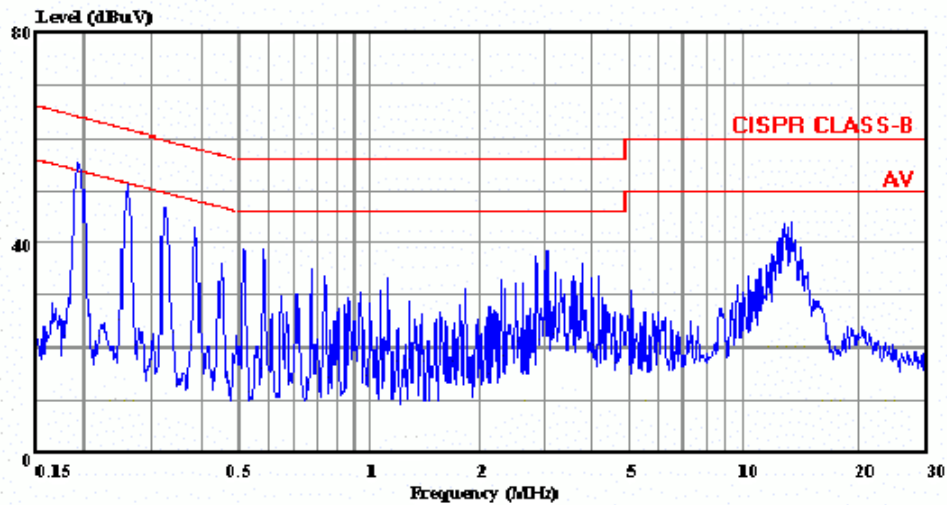
Site : No.3 Shielded room
 Condition: CISPR CLASS-B (AV) KNW-407 NEUTRAL
 EUT : CD-RE DRIVE M/N:LTR-32123S
 Power : 120Vac/60Hz
 Memo : READ

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 !	0.195	49.92	-3.88	53.80	49.52	0.20	0.20	Average
2 !	0.261	45.24	-6.14	51.38	44.84	0.20	0.20	Average
3 !	0.324	44.01	-5.58	49.59	43.61	0.20	0.20	Average
4 !	0.389	39.76	-8.32	48.08	39.36	0.20	0.20	Average
5	3.676	32.00	-14.00	46.00	31.20	0.40	0.40	Average
6	13.478	25.58	-24.42	50.00	24.08	0.80	0.70	Average

TOKINTAIWAN TOKIN EMC ENG. CORP.
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Email:ttemc@ttemc.com.tw

Data#: 25 File#: Lite-on.emi Date: 2001-10-25 Time: 11:29:38



Site : No.3 Shielded room
 Condition: CISPR CLASS-B KNW-407 LINE
 EUT : CD-RE DRIVE M/N:LTR-32123S
 Power : 120Vac/60Hz
 Memo : READ

Data#: 26 File#: Lite-on.emi Date: 2001-10-25 Time: 11:30:21

No.3 Shielded room
 Site : No.3 Shielded room
 Condition: CISPR CLASS-B KNW-407 LINE
 EUT : CD-RE DRIVE M/N:LTR-32123S
 Power : 120Vac/60Hz
 Memo : READ

Page: 1

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.193	53.80	-10.11	63.91	53.40	0.20	0.20	QP
2	0.259	49.98	-11.49	61.47	49.58	0.20	0.20	QP
3	0.323	45.86	-13.76	59.62	45.46	0.20	0.20	QP
4	0.388	41.17	-16.94	58.11	40.77	0.20	0.20	QP
5	3.678	35.21	-20.79	56.00	34.41	0.40	0.40	QP
6	13.480	36.92	-23.08	60.00	35.42	0.80	0.70	QP

Data#: 27 File#: Lite-on.emi Date: 2001-10-25 Time: 11:32:19

No.3 Shielded room
 Site : No.3 Shielded room
 Condition: CISPR CLASS-B (AV) KNW-407 LINE
 EUT : CD-RE DRIVE M/N:LTR-32123S
 Power : 120Vac/60Hz
 Memo : READ

Page: 1

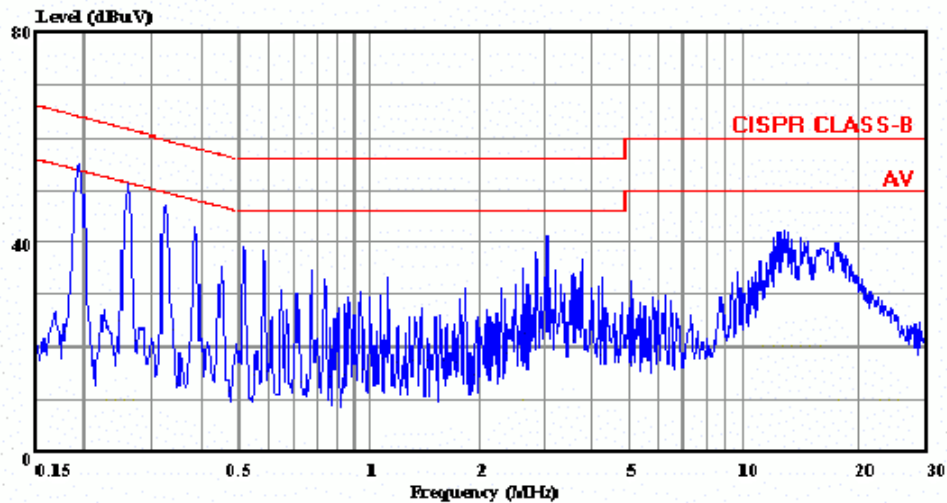
	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1 !	0.193	50.40	-3.51	53.91	50.00	0.20	0.20	Average
2 !	0.259	46.85	-4.62	51.47	46.45	0.20	0.20	Average
3 !	0.323	44.53	-5.09	49.62	44.13	0.20	0.20	Average
4 !	0.388	39.32	-8.79	48.11	38.92	0.20	0.20	Average
5	3.678	33.15	-12.85	46.00	32.35	0.40	0.40	Average
6	13.480	27.63	-22.37	50.00	26.13	0.80	0.70	Average

TOKIN

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Email:ttemc@ttemc.com.tw

Data#: 31 File#: Lite-on.emi Date: 2001-10-25 Time: 11:36:07



Site : No.3 Shielded room
Condition: CISPR CLASS-B KNW-407 NEUTRAL
EUT : CD-RE DRIVE M/N:LTR-32123S
Power : 120Vac/60Hz
Memo : WRITE

Data#: 32 File#: Lite-on.emi Date: 2001-10-25 Time: 11:36:36

No.3 Shielded room
Site : No.3 Shielded room
Condition: CISPR CLASS-B KNW-407 NEUTRAL
EUT : CD-RE DRIVE M/N:LTR-32123S
Power : 120Vac/60Hz
Memo : WRITE

Page: 1

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.197	52.41	-11.34	63.75	52.01	0.20	0.20	QP
2	0.263	45.69	-15.65	61.34	45.29	0.20	0.20	QP
3	0.326	45.36	-14.20	59.56	44.96	0.20	0.20	QP
4	0.388	41.13	-16.98	58.11	40.73	0.20	0.20	QP
5	3.676	34.74	-21.26	56.00	33.94	0.40	0.40	QP
6	13.474	35.04	-24.96	60.00	33.54	0.80	0.70	QP

Data#: 33 File#: Lite-on.emi Date: 2001-10-25 Time: 11:38:07

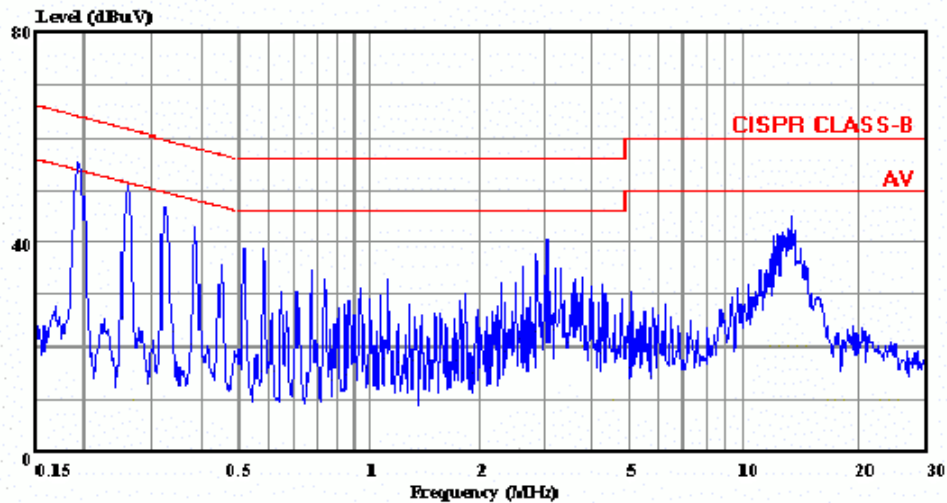
No.3 Shielded room
Site : No.3 Shielded room
Condition: CISPR CLASS-B (AV) KNW-407 NEUTRAL
EUT : CD-RE DRIVE M/N:LTR-32123S
Power : 120Vac/60Hz
Memo : WRITE

Page: 1

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 !	0.197	49.95	-3.80	53.75	49.55	0.20	0.20	Average
2 !	0.263	43.85	-7.49	51.34	43.45	0.20	0.20	Average
3 !	0.326	44.09	-5.47	49.56	43.69	0.20	0.20	Average
4 !	0.388	39.57	-8.54	48.11	39.17	0.20	0.20	Average
5	3.676	32.07	-13.93	46.00	31.27	0.40	0.40	Average
6	13.474	26.40	-23.60	50.00	24.90	0.80	0.70	Average

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Tel:02-26092133 Fax:02-26099303
Email:ttemc@ttemc.com.tw

Data#: 34 File#: Lite-on.emi Date: 2001-10-25 Time: 11:39:14



Site : No.3 Shielded room
 Condition: CISPR CLASS-B KNW-407 LINE
 EUT : CD-RE DRIVE M/N:LTR-32123S
 Power : 120Vac/60Hz
 Memo : WRITE

Data#: 35 File#: Lite-on.emi Date: 2001-10-25 Time: 11:39:44

No.3 Shielded room

Site : No.3 Shielded room
 Condition: CISPR CLASS-B KNW-407 LINE
 EUT : CD-RE DRIVE M/N:LTR-32123S
 Power : 120Vac/60Hz
 Memo : WRITE

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.191	52.02	-11.97	63.99	51.62	0.20	0.20	QP
2	0.260	49.79	-11.63	61.42	49.39	0.20	0.20	QP
3	0.325	46.09	-13.50	59.59	45.69	0.20	0.20	QP
4	0.388	41.29	-16.81	58.10	40.89	0.20	0.20	QP
5	3.174	39.24	-16.76	56.00	38.44	0.40	0.40	QP
6	13.472	38.82	-21.18	60.00	37.32	0.80	0.70	QP

Data#: 36 File#: Lite-on.emi Date: 2001-10-25 Time: 11:41:00

No.3 Shielded room

Site : No.3 Shielded room
 Condition: CISPR CLASS-B (AV) KNW-407 LINE
 EUT : CD-RE DRIVE M/N:LTR-32123S
 Power : 120Vac/60Hz
 Memo : WRITE

Page: 1

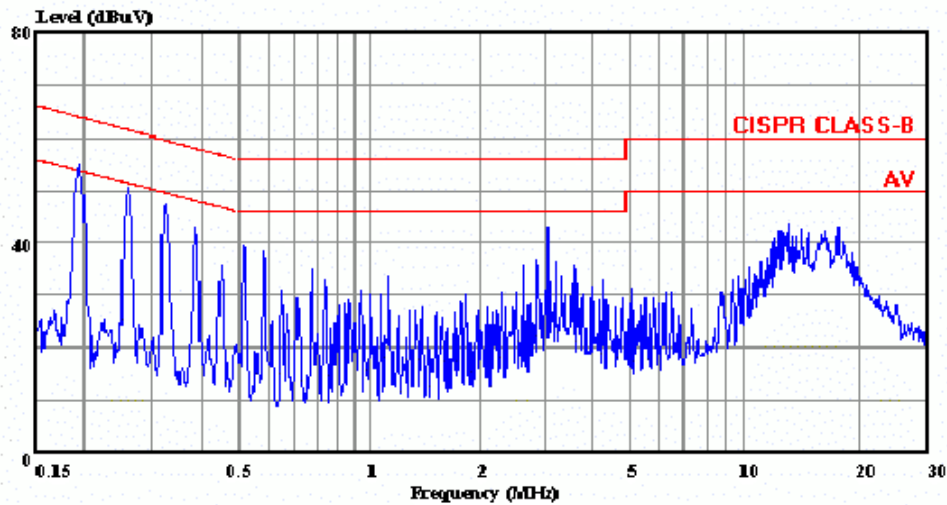
	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 !	0.191	49.63	-4.36	53.99	49.23	0.20	0.20	Average
2 !	0.260	46.87	-4.55	51.42	46.47	0.20	0.20	Average
3 !	0.325	45.78	-3.81	49.59	45.38	0.20	0.20	Average
4 !	0.388	39.42	-8.68	48.10	39.02	0.20	0.20	Average
5	3.174	35.09	-10.91	46.00	34.29	0.40	0.40	Average
6	13.472	29.93	-20.07	50.00	28.43	0.80	0.70	Average

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Data#: 52 File#: Lite-on.emi Date: 2001-10-25 Time: 12:13:48



Site : No.3 Shielded room
Condition: CISPR CLASS-B KTW-407 NEUTRAL
EUT : CD-RE DRIVE M/N:LTR-32123S
Power : 120Vac/60Hz
Memo : AUDIO PLAY

Data#: 53 File#: Lite-on.emi Date: 2001-10-25 Time: 12:14:18

No.3 Shielded room

Site : No.3 Shielded room
Condition: CISPR CLASS-B KTW-407 NEUTRAL
EUT : CD-RE DRIVE M/N:LTR-32123S
Power : 120Vac/60Hz
Memo : AUDIO PLAY

Page: 1

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.198	51.12	-12.59	63.71	50.72	0.20	0.20	QP
2	0.258	48.82	-12.68	61.50	48.42	0.20	0.20	QP
3	0.325	46.73	-12.86	59.59	46.33	0.20	0.20	QP
4	0.388	41.47	-16.63	58.10	41.07	0.20	0.20	QP
5	3.177	39.27	-16.73	56.00	38.47	0.40	0.40	QP
6	12.884	42.84	-17.16	60.00	41.34	0.80	0.70	QP

Data#: 54 File#: Lite-on.emi Date: 2001-10-25 Time: 12:15:14

No.3 Shielded room

Site : No.3 Shielded room
Condition: CISPR CLASS-B (AV) KTW-407 NEUTRAL
EUT : CD-RE DRIVE M/N:LTR-32123S
Power : 120Vac/60Hz
Memo : AUDIO PLAY

Page: 1

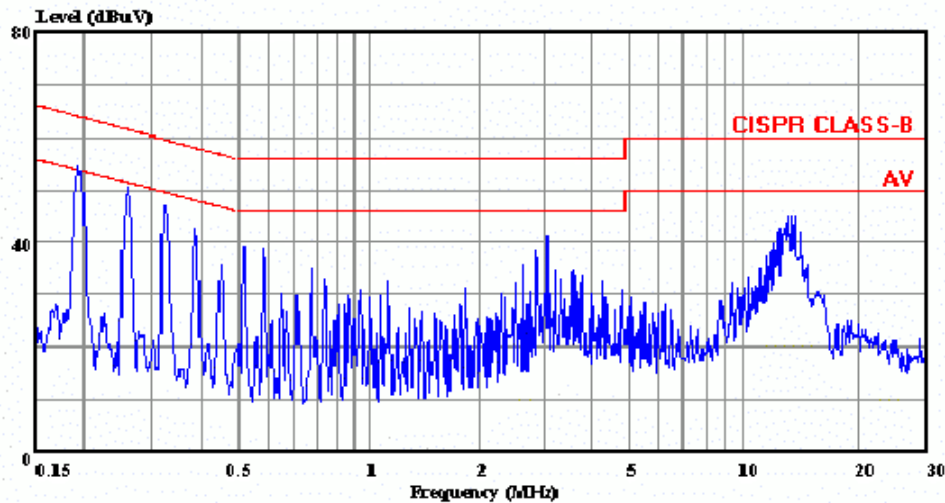
	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 !	0.198	49.07	-4.64	53.71	48.67	0.20	0.20	Average
2 !	0.258	46.14	-5.36	51.50	45.74	0.20	0.20	Average
3 !	0.325	46.05	-3.54	49.59	45.65	0.20	0.20	Average
4 !	0.388	39.84	-8.26	48.10	39.44	0.20	0.20	Average
5	3.177	35.37	-10.63	46.00	34.57	0.40	0.40	Average
6	12.884	35.96	-14.04	50.00	34.46	0.80	0.70	Average

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Email:ttemc@ttemc.com.tw

Data#: 49 File#: Lite-on.emi Date: 2001-10-25 Time: 12:11:31



Site : No.3 Shielded room
Condition: CISPR CLASS-B KMW-407 LINE
EUT : CD-RE DRIVE M/N:LTR-32123S
Power : 120Vac/60Hz
Memo : AUDIO PLAY

Data#: 50 File#: Lite-on.emi Date: 2001-10-25 Time: 12:12:03

No.3 Shielded room
Site : No.3 Shielded room
Condition: CISPR CLASS-B KMW-407 LINE
EUT : CD-RE DRIVE M/N:LTR-32123S
Power : 120Vac/60Hz
Memo : AUDIO PLAY

Page: 1

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.196	52.51	-11.26	63.77	52.11	0.20	0.20	QP
2	0.259	49.08	-12.38	61.46	48.68	0.20	0.20	QP
3	0.326	45.32	-14.23	59.55	44.92	0.20	0.20	QP
4	0.391	40.62	-17.43	58.05	40.22	0.20	0.20	QP
5	3.175	39.55	-16.45	56.00	38.75	0.40	0.40	QP
6	12.883	42.86	-17.14	60.00	41.36	0.80	0.70	QP

Data#: 51 File#: Lite-on.emi Date: 2001-10-25 Time: 12:13:02

No.3 Shielded room
Site : No.3 Shielded room
Condition: CISPR CLASS-B (AV) KMW-407 LINE
EUT : CD-RE DRIVE M/N:LTR-32123S
Power : 120Vac/60Hz
Memo : AUDIO PLAY

Page: 1

	Freq	Level	Over	Limit	Read	Probe	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 !	0.196	50.59	-3.18	53.77	50.19	0.20	0.20	Average
2 !	0.259	46.35	-5.11	51.46	45.95	0.20	0.20	Average
3 !	0.326	44.60	-4.95	49.55	44.20	0.20	0.20	Average
4 !	0.391	38.52	-9.53	48.05	38.12	0.20	0.20	Average
5	3.175	35.68	-10.32	46.00	34.88	0.40	0.40	Average
6	12.883	36.23	-13.77	50.00	34.73	0.80	0.70	Average

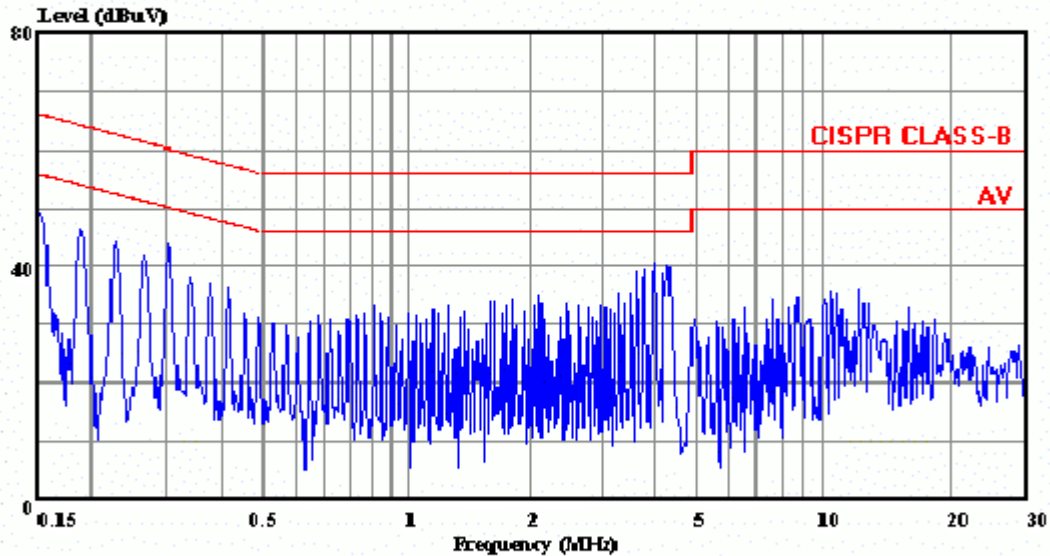
Test Model : LTR-40125S

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Data#: 44

File#: Lite-on4.emi

Date: 2002-01-19 Time: 11:49:45



Site : No.4 Shielded room
 Condition: CISPR CLASS-B KMW-407 NEUTRAL
 EUT : CD-RW DRIVE M/N:LTR-40125S
 POWER : 120Vac/60Hz
 MEMO : READ

Data#: 45

File#: D:\Lite-on4.emi

Date: 2002-01-19 Time: 11:51:28

Site : No.4 Shielded room
 Condition : CISPR CLASS-B KMW-407 NEUTRAL
 EUT : CD-RW DRIVE M/N:LTR-40125S
 POWER : 120Vac/60Hz
 MEMO : READ

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.151	49.25	-16.68	65.93	48.75	0.30	0.20	QP
2	0.189	45.87	-18.22	64.09	45.45	0.22	0.20	QP
3	0.228	43.53	-19.00	62.53	43.15	0.18	0.20	QP
4	0.302	42.79	-17.39	60.18	42.45	0.14	0.20	QP
5	4.435	39.23	-16.77	56.00	38.52	0.11	0.60	QP
6	10.618	36.38	-23.62	60.00	35.48	0.20	0.70	QP

Data#: 46

File#: D:\Lite-on4.emi

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.151	44.86	-11.07	55.93	44.36	0.30	0.20	Average
2	0.189	44.00	-10.09	54.09	43.58	0.22	0.20	Average
3	0.228	40.94	-11.59	52.53	40.56	0.18	0.20	Average
4	0.302	39.53	-10.65	50.18	39.19	0.14	0.20	Average
5	4.435	34.41	-11.59	46.00	33.70	0.11	0.60	Average
6	10.618	27.54	-22.46	50.00	26.64	0.20	0.70	Average



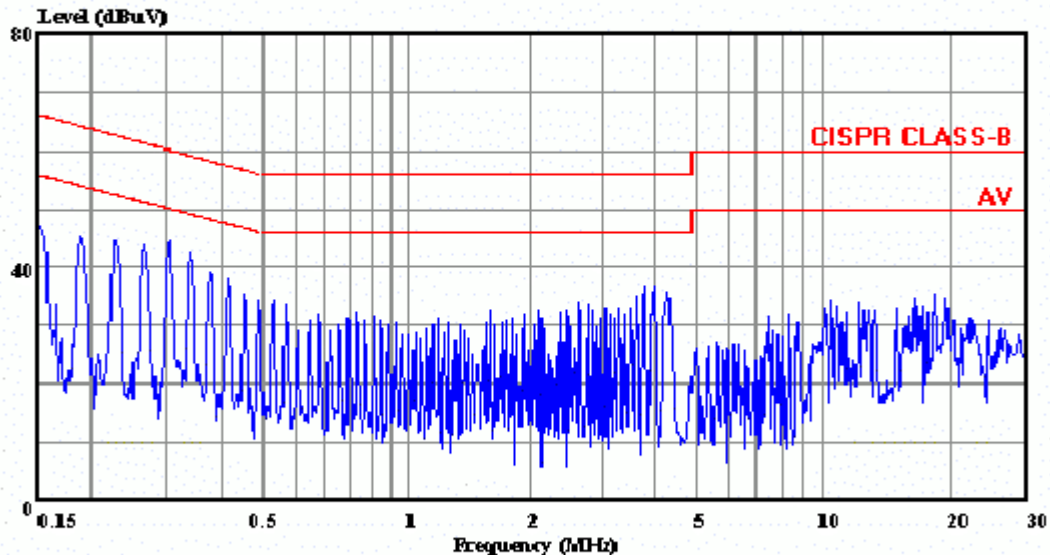
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Data#: 43

File#: Lite-on4.emi

Date: 2002-01-19 Time: 11:48:12



Site : No.4 Shielded room
Condition: CISPR CLASS-B KMW-407 LINE
EUT : CD-RW DRIVE M/N:LTR-40125S
POWER : 120Vac/60Hz
MEMO : READ

Data#: 47

File#: D:\Lite-on4.emi

Date: 2002-01-19 Time: 11:52:24

Site : No.4 Shielded room
Condition : CISPR CLASS-B KMW-407 LINE
EUT : CD-RW DRIVE M/N:LTR-40125S
POWER : 120Vac/60Hz
MEMO : READ

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.154	46.78	-19.01	65.79	46.29	0.29	0.20	QP
2	0.190	45.87	-18.16	64.03	45.45	0.22	0.20	QP
3	0.228	46.07	-16.46	62.53	45.69	0.18	0.20	QP
4	0.301	42.95	-17.26	60.21	42.61	0.14	0.20	QP
5	5.687	28.47	-31.53	60.00	27.77	0.10	0.60	QP
6	12.626	36.00	-24.00	60.00	35.13	0.17	0.70	QP

Data#: 48

File#: D:\Lite-on4.emi

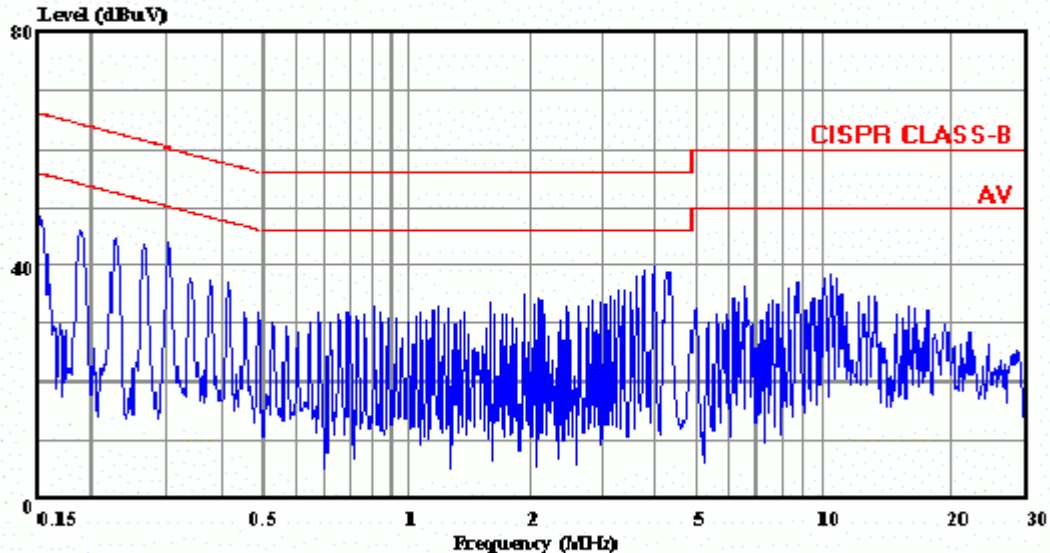
	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.154	42.78	-13.01	55.79	42.29	0.29	0.20	Average
2	0.190	43.51	-10.52	54.03	43.09	0.22	0.20	Average
3	0.228	41.21	-11.32	52.53	40.83	0.18	0.20	Average
4	0.301	40.53	-9.68	50.21	40.19	0.14	0.20	Average
5	5.687	23.97	-26.03	50.00	23.27	0.10	0.60	Average
6	12.626	29.48	-20.52	50.00	28.61	0.17	0.70	Average



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Email:ttemc@ttemc.com.tw

Data#: 38 File#: Lite-on4.emi Date: 2002-01-19 Time: 11:44:21



Site : No.4 Shielded room
Condition: CISPR CLASS-B KMW-407 NEUTRAL
EUT : CD-RW DRIVE M/N:LTR-40125S
POWER : 120Vac/60Hz
MEMO : WRITE

Data#: 39 File#: D:\Lite-on4.emi Date: 2002-01-19 Time: 11:45:56

Site : No.4 Shielded room
Condition : CISPR CLASS-B KMW-407 NEUTRAL
EUT : CD-RW DRIVE M/N:LTR-40125S
POWER : 120Vac/60Hz
MEMO : WRITE

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.154	46.83	-18.96	65.79	46.34	0.29	0.20	QP
2	0.189	46.08	-18.01	64.09	45.66	0.22	0.20	QP
3	0.226	43.75	-18.83	62.58	43.37	0.18	0.20	QP
4	0.264	41.87	-19.43	61.30	41.51	0.16	0.20	QP
5	0.303	43.76	-16.40	60.16	43.42	0.14	0.20	QP
6	4.433	38.91	-17.09	56.00	38.20	0.11	0.60	QP

Data#: 40 File#: D:\Lite-on4.emi

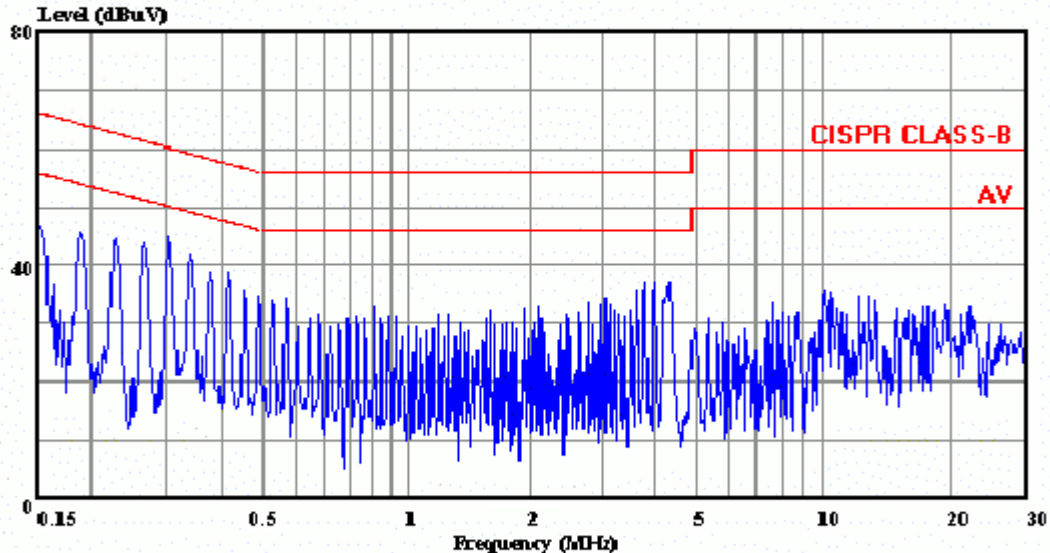
	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.154	43.30	-12.49	55.79	42.81	0.29	0.20	Average
2	0.189	44.10	-9.99	54.09	43.68	0.22	0.20	Average
3	0.226	41.93	-10.65	52.58	41.55	0.18	0.20	Average
4	0.264	37.96	-13.34	51.30	37.60	0.16	0.20	Average
5	0.303	38.67	-11.49	50.16	38.33	0.14	0.20	Average
6	4.433	33.56	-12.44	46.00	32.85	0.11	0.60	Average



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Data#: 37 File#: Lite-on4.emi Date: 2002-01-19 Time: 11:42:56



Site : No.4 Shielded room
Condition: CISPR CLASS-B KMW-407 LINE
EUT : CD-RW DRIVE M/N:LTR-40125S
POWER : 120Vac/60Hz
MEMO : WRITE

Data#: 41 File#: D:\Lite-on4.emi Date: 2002-01-19 Time: 11:46:56

Site : No.4 Shielded room
Condition : CISPR CLASS-B KMW-407 LINE
EUT : CD-RW DRIVE M/N:LTR-40125S
POWER : 120Vac/60Hz
MEMO : WRITE

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.152	46.16	-19.75	65.91	45.66	0.30	0.20	QP
2	0.189	45.19	-18.88	64.07	44.77	0.22	0.20	QP
3	0.227	44.29	-18.28	62.57	43.91	0.18	0.20	QP
4	0.264	43.39	-17.91	61.30	43.03	0.16	0.20	QP
5	0.300	43.13	-17.10	60.23	42.79	0.14	0.20	QP
6	12.629	32.71	-27.29	60.00	31.84	0.17	0.70	QP

Data#: 42 File#: D:\Lite-on4.emi

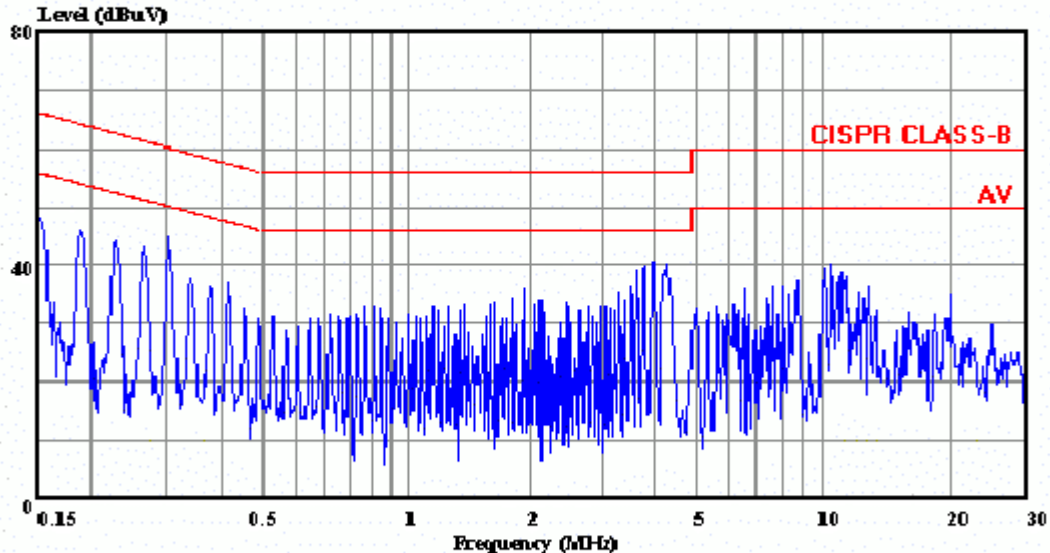
	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.152	44.94	-10.97	55.91	44.44	0.30	0.20	Average
2	0.189	43.62	-10.45	54.07	43.20	0.22	0.20	Average
3	0.227	41.54	-11.03	52.57	41.16	0.18	0.20	Average
4	0.264	41.47	-9.83	51.30	41.11	0.16	0.20	Average
5	0.300	39.67	-10.56	50.23	39.33	0.14	0.20	Average
6	12.629	25.52	-24.48	50.00	24.65	0.17	0.70	Average



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Data#: 50 File#: Lite-on4.emi Date: 2002-01-19 Time: 11:56:49



Site : No.4 Shielded room
Condition: CISPR CLASS-B KMW-407 NEUTRAL
EUT : CD-RW DRIVE M/N:LTR-40125S
POWER : 120Vac/60Hz
MEMO : AUDIO PLAY

Data#: 51 File#: D:\Lite-on4.emi Date: 2002-01-19 Time: 11:58:32

Site : No.4 Shielded room
Condition : CISPR CLASS-B KMW-407 NEUTRAL
EUT : CD-RW DRIVE M/N:LTR-40125S
POWER : 120Vac/60Hz
MEMO : AUDIO PLAY

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.151	49.15	-16.79	65.94	48.65	0.30	0.20	QP
2	0.189	45.95	-18.14	64.09	45.53	0.22	0.20	QP
3	0.226	44.05	-18.53	62.58	43.67	0.18	0.20	QP
4	0.302	43.01	-17.19	60.20	42.67	0.14	0.20	QP
5	0.874	30.60	-25.40	56.00	30.30	0.10	0.20	QP
6	4.400	36.97	-19.03	56.00	36.26	0.11	0.60	QP

Data#: 52 File#: D:\Lite-on4.emi

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.151	44.96	-10.98	55.94	44.46	0.30	0.20	Average
2	0.189	44.10	-9.99	54.09	43.68	0.22	0.20	Average
3	0.226	41.32	-11.26	52.58	40.94	0.18	0.20	Average
4	0.302	38.91	-11.29	50.20	38.57	0.14	0.20	Average
5	0.874	27.02	-18.98	46.00	26.72	0.10	0.20	Average
6	4.400	33.12	-12.88	46.00	32.41	0.11	0.60	Average



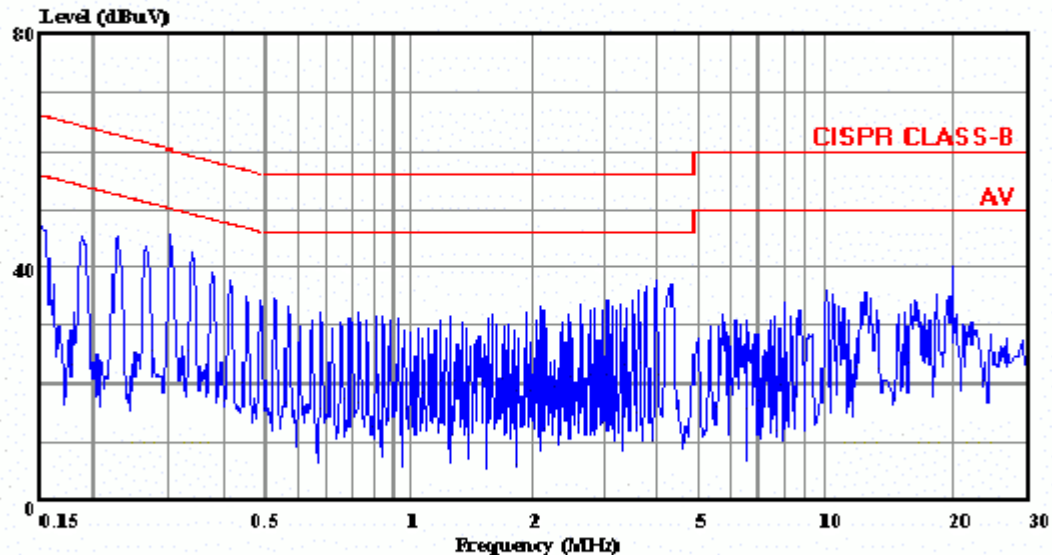
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Data#: 49

File#: Lite-on4.emi

Date: 2002-01-19 Time: 11:54:04



Site : No.4 Shielded room
Condition: CISPR CLASS-B KMW-407 LINE
EUT : CD-RW DRIVE M/N:LTR-40125S
POWER : 120Vac/60Hz
MEMO : AUDIO PLAY

Data#: 53

File#: D:\Lite-on4.emi

Date: 2002-01-19

Time: 11:59:19

Site : No.4 Shielded room
Condition : CISPR CLASS-B KMW-407 LINE
EUT : CD-RW DRIVE M/N:LTR-40125S
POWER : 120Vac/60Hz
MEMO : AUDIO PLAY

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.152	46.90	-18.98	65.88	46.40	0.30	0.20	QP
2	0.191	44.05	-19.93	63.98	43.63	0.22	0.20	QP
3	0.226	44.55	-18.03	62.58	44.17	0.18	0.20	QP
4	0.307	41.49	-18.57	60.06	41.15	0.14	0.20	QP
5	0.876	25.70	-30.30	56.00	25.40	0.10	0.20	QP
6	12.020	27.76	-32.24	60.00	26.91	0.15	0.70	QP

Data#: 54

File#: D:\Lite-on4.emi

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.152	44.62	-11.26	55.88	44.12	0.30	0.20	Average
2	0.191	42.88	-11.10	53.98	42.46	0.22	0.20	Average
3	0.226	41.89	-10.69	52.58	41.51	0.18	0.20	Average
4	0.307	39.22	-10.84	50.06	38.88	0.14	0.20	Average
5	0.876	20.68	-25.32	46.00	20.38	0.10	0.20	Average
6	12.020	24.56	-25.44	50.00	23.71	0.15	0.70	Average

3. RADIATED EMISSION TEST

3.1. Test Equipment

The following test equipment are used during the radiated emission tests :

3.1.1. No. 5 Open Test Site

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	HP	8595E	3829A03778	Aug.17, 01'	1 Year
2.	Test Receiver	Rohde & Schwarz	ESVS10	849231/017	Dec.01, 00'	1 Year
3.	Amplifier	HP	8447D	2944A07185	N/A	N/A
4.	Broadband Antenna	Chase	VBA6106A	1227	Apr.16, 01'	1 Year
5.	Log Periodic Antenna	Chase	UPA6109	1061	Apr.16, 01'	1 Year
6.	Horn Antenna (1GHz ~ 7GHz)	EMCO	3115	9609-4927	Jul. 05, 01'	1 Year

3.1.2. No. 6 Open Test Site

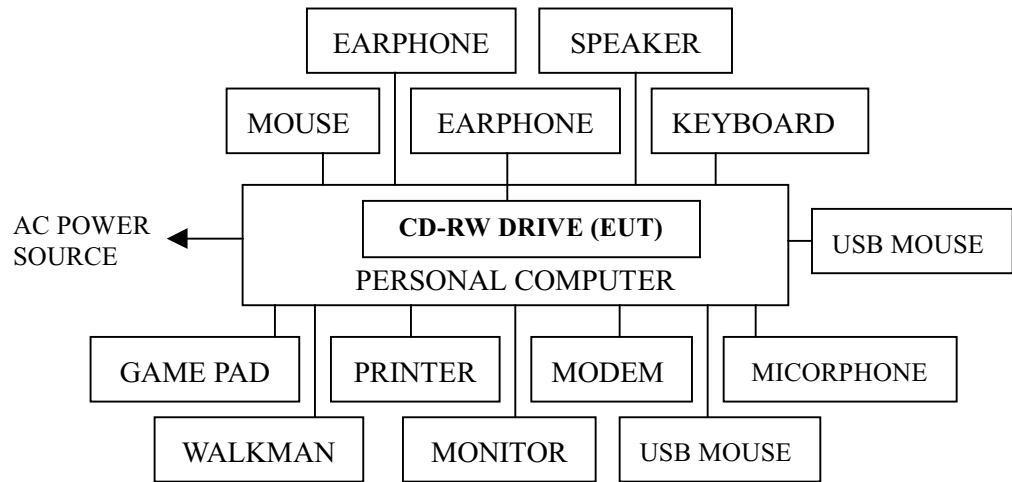
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Anritsu	MS2601B	MT73069	Jul.31, 01'	1 Year
2.	Test Receiver	Rohde & Schwarz	ESVP	879691/036	Jul.04, 01'	1 Year
3.	Amplifier	HP	8447D	2727A06166	N/A	N/A
4.	Broadband Antenna	Chase	UPA6109	1063	Apr.16, 01'	1 Year
5.	Broadband Antenna	Chase	VBA6106A	1262	Apr.16, 01'	1 Year

3.1.3. Anechoic Chamber

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	HP	8590L	3710A01838	Aug.06,01'	1 Year
2.	Pre-Amplifier	HP	8447D	2944A06305	Mar.07, 01'	1 Year
3.	Antenna Turn Table Controller	Tokin	5906	N/A	N/A	N/A
4.	Antenna Turn Table Driver	Tokin	5907	88Y465	N/A	N/A
5.	Horn Antenna (1GHz ~ 7GHz)	EMCO	3115	9609-4927	Jul. 05, 01'	1 Year

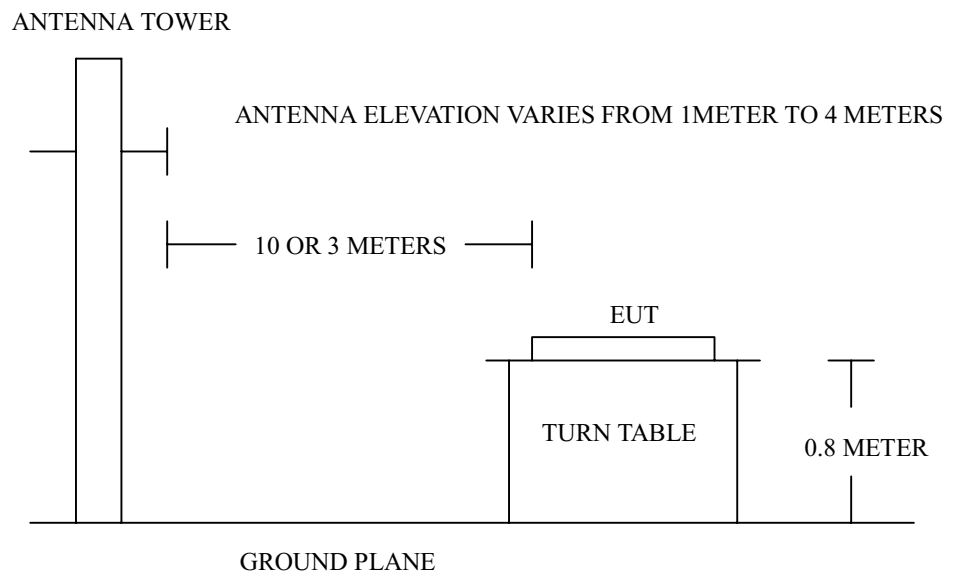
3.2. Block Diagram of Test Setup

3.2.1. Block Diagram of connection between EUT and simulators



3.2.2. Open Field Test Site Setup Diagram

(10M for 30MHz~ 1000MHz; 3M for 1GHz~7GHz)



3.3. Radiation Limit (CISPR 22, Class B)

All emanations from a class B computing devices or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dB μ V/m)
30 ~ 230	10	30
230 ~ 1000	10	37
1000 ~ 7000	3	74.0 (Peak)

Notes : (1) The tighter limit applies at the edge between two frequency bands.

(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

(3) There is no over 1GHz limit in CISPR 22 standard. Therefore, a FCC limit is used based on CFR 47 Part 15.35 (b) and Part 15.109 (g).

3.4. EUT's Configuration during Compliance Measurement

The configuration of EUT and its simulators are same as those used in conducted measurement. Please refer to 2.4.

3.5. Operating Condition of EUT

Same as conducted measurement which is listed in 2.5.

3.6. Test Procedure

The EUT and its simulators were placed on a turn table which was 0.8 meter above the ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. For 30MHz to 1000MHz frequency ranges, EUT was set 10 meters and for 1GHz to 7GHz frequency ranges, EUT was set at 3 meters away from the receiving antenna which was mounted on a antenna tower. The antenna moved up and down between 1 to 4 meters for 30MHz to 1000MHz frequency range and for 1GHz to 7GHz frequency range to find out the maximum emission level. Broadband antenna such as calibrated biconical and log- periodical antenna or horn antenna were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4-1992 regulation.

The resolution bandwidth from band 30MHz ~ 1000MHz was set at 120KHz and from 1GHz ~ 7GHz was set at 1MHz.

The frequency range from 30MHz to 7GHz was checked.

Two kinds of test models with three kinds of test modes were done during 30MHz~1000MHz frequency range radiated measurement and all the test results are listed in section 3.8.1.

No.	Model	Mode
1.	LTR-32123S	Data Read
※ 2.		Data Write
3.		Audio Play
4.	LTR-40125S	Data Read
5.		Data Write
※ 6.		Audio Play

The test modes (1) (6) was done during 1GHz~7GHz frequency range radiated measurement and all the test results are listed in section 3.8.2.

3.7. Test Results

PASSED. Please refer to the following pages.

3.8. Radiated Emission Measurement Results

3.8.1. 30MHz to 1000GHz Frequency Range Measurement Results

Distance: 10Meters

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

Date of Test : Oct. 26, 2001 Temperature : 25°C
 EUT : CD-RW DRIVE Humidity : 48%
 Test Model : LTR-32123S Test Mode : Data Read

	Frequency	Antenna	Cable	Meter Reading	Emission Level	Limits	Margin
	MHz	Factor	Loss	Horizontal	Horizontal		
		dB/m	dB	dBuV	dBuV/m		dB
*	60.071	15.08	1.59	3.66	20.33	30.00	9.67
	88.074	17.88	2.01	2.57	22.46	30.00	7.54
	108.077	20.60	2.31	- 0.18	22.73	30.00	7.27
	168.084	22.88	2.85	- 1.06	24.67	30.00	5.33
	204.089	22.97	3.28	- 1.95	24.30	30.00	5.70
	256.095	24.70	3.56	- 0.61	27.65	37.00	9.35
	312.239	14.29	4.29	3.04	21.62	37.00	15.38
	344.243	14.85	4.49	3.25	22.59	37.00	14.41
	368.246	16.25	4.68	1.87	22.80	37.00	14.20
	412.252	16.28	4.92	2.46	23.66	37.00	13.34
	464.347	17.74	5.46	2.71	25.91	37.00	11.09
	520.354	19.06	5.59	1.84	26.49	37.00	10.51
	604.492	20.73	6.15	1.11	27.99	37.00	9.01

- Remark :
1. All reading are Quasi-Peak values.
 2. The worst emission is detected at 168.084MHz with corrected signal level of 24.67dBuV/m (limit is 30dBuV/m) when the antenna is at horizontal polarization and is at 3m high and the turn table is at 240° .
 3. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

Date of Test : Oct. 26, 2001 Temperature : 25°C
 EUT : CD-RW DRIVE Humidity : 48%
 Test Model : LTR-32123S Test Mode : Data Read

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBuV	Emission Level Vertical dBuV/m	Limits dBuV/m	Margin dB
64.237	13.59	1.68	0.66	15.93	30.00	14.07
100.241	16.66	2.22	- 0.11	18.77	30.00	11.23
136.246	21.58	2.56	- 0.76	23.38	30.00	6.62
* 180.251	23.33	2.96	1.76	24.53	30.00	5.47
224.257	22.09	3.47	- 1.96	23.60	30.00	6.40
260.261	22.34	3.78	- 0.58	25.54	37.00	11.46
336.535	16.03	4.40	3.29	23.72	37.00	13.28
384.541	17.46	4.54	1.94	23.94	37.00	13.06
428.546	18.29	4.99	2.62	25.90	37.00	11.10
484.553	19.22	5.47	0.05	24.74	37.00	12.26
516.557	19.42	5.72	1.79	26.93	37.00	10.07
560.626	21.97	6.06	- 0.46	27.57	37.00	9.43
632.635	21.64	6.47	- 0.56	27.55	37.00	9.45

- Remark :
1. All reading are Quasi-Peak values.
 2. The worst emission is detected at 180.251MHz with corrected signal level of 24.53dBuV/m (limit is 30dBuV/m) when the antenna is at vertical polarization and is at 1m high and the turn table is at 150° .
 3. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

Date of Test : Nov. 05, 2001 Temperature : 23°C

EUT : CD-RW DRIVE Humidity : 50%

Test Model : LTR-32123S Test Mode : Data Write

Frequency MHz	Antenna	Cable	Meter Reading	Emission Level		Margin dB
	Factor dB/m	Loss dB	Horizontal dBuV	Horizontal dBuV/m	Limits dBuV/m	
55.012	16.45	1.50	1.91	19.86	30.00	10.14
67.766	14.56	1.77	1.50	17.83	30.00	12.17
79.588	16.21	1.98	1.64	19.83	30.00	10.17
116.452	21.11	2.38	- 0.91	22.58	30.00	7.42
141.028	22.47	2.66	- 2.74	22.39	30.00	7.61
203.006	22.86	3.20	- 2.82	23.24	30.00	6.76
236.871	24.25	3.57	- 1.28	26.54	37.00	10.46
338.051	14.69	4.43	6.40	25.52	37.00	11.48
406.457	16.43	4.91	5.08	26.42	37.00	10.58
485.993	18.47	5.38	3.43	27.28	37.00	9.72
575.517	21.06	5.98	0.49	27.53	37.00	9.47
645.737	21.22	6.40	1.04	28.66	37.00	8.34
812.201	23.83	7.84	- 1.59	30.08	37.00	6.92
879.825	24.67	8.08	- 3.17	29.58	37.00	7.42

Frequency MHz	Antenna	Cable	Meter Reading	Emission Level		Margin dB
	Factor dB/m	Loss dB	Vertical dBuV	Vertical dBuV/m	Limits dBuV/m	
55.038	14.69	1.50	5.47	21.66	30.00	8.34
68.337	14.58	1.78	5.37	21.73	30.00	8.27
102.149	16.85	2.21	2.74	21.80	30.00	8.20
135.961	21.52	2.55	- 0.76	23.31	30.00	6.69
141.054	21.89	2.66	- 0.91	23.64	30.00	6.36
203.585	23.45	3.25	- 3.94	22.76	30.00	7.24
251.646	22.29	3.56	0.40	26.25	37.00	10.75
313.200	15.65	4.28	3.20	23.13	37.00	13.87
372.426	17.36	4.54	2.93	24.83	37.00	12.17
460.656	19.75	5.23	- 0.46	24.52	37.00	12.48
507.674	19.43	5.49	0.75	25.67	37.00	11.33
642.986	22.09	6.50	0.12	28.71	37.00	8.29
812.011	24.73	7.84	- 3.68	28.89	37.00	8.11
879.666	25.15	8.08	- 6.09	27.14	37.00	9.86

Remark : All reading are Quasi-Peak values.

Date of Test : Oct. 26, 2001 Temperature : 25°C

EUT : CD-RW DRIVE Humidity : 48%

Test Model : LTR-32123S Test Mode : Audio Play

Frequency MHz	Antenna	Cable	Meter Reading	Emission Level		Margin dB
	Factor dB/m	Loss dB	Horizontal dBuV	Horizontal dBuV/m	Limits dBuV/m	
66.895	14.54	1.77	0.44	16.75	30.00	13.25
107.982	20.60	2.31	- 1.36	21.55	30.00	8.45
126.243	21.80	2.46	- 2.94	21.32	30.00	8.68
153.634	22.68	2.80	- 2.94	22.54	30.00	7.46
208.416	23.39	3.20	- 2.03	24.56	30.00	5.44
240.373	24.18	3.50	- 1.37	26.31	37.00	10.69
332.232	14.52	4.28	1.47	20.27	37.00	16.73
373.319	16.33	4.66	1.06	22.05	37.00	14.95
409.841	16.32	4.85	0.07	21.24	37.00	15.76
446.362	17.05	5.22	0.80	23.07	37.00	13.93
492.014	18.33	5.48	- 0.79	23.02	37.00	13.98
569.813	20.88	5.89	- 0.30	26.47	37.00	10.53
661.117	21.70	6.54	- 1.98	26.26	37.00	10.74

Frequency MHz	Antenna	Cable	Meter Reading	Emission Level		Margin dB
	Factor dB/m	Loss dB	Vertical dBuV	Vertical dBuV/m	Limits dBuV/m	
58.032	13.72	1.54	1.77	17.03	30.00	12.97
94.553	16.58	2.11	2.46	21.15	30.00	8.85
108.249	17.43	2.32	- 0.83	18.92	30.00	11.08
126.510	19.91	2.48	- 2.71	19.68	30.00	10.32
217.814	22.40	3.29	- 2.84	22.85	30.00	7.15
245.205	22.31	3.51	- 2.61	23.21	37.00	13.79
363.824	17.34	4.57	0.87	22.78	37.00	14.22
391.215	17.69	4.64	0.11	22.44	37.00	14.56
450.563	19.02	5.11	0.85	24.98	37.00	12.02
514.475	19.48	5.37	- 0.22	24.63	37.00	12.37
546.695	20.96	5.84	- 1.30	25.50	37.00	11.50
628.869	21.44	6.28	- 1.62	26.10	37.00	10.90
665.390	22.34	6.55	- 1.94	26.95	37.00	10.05

Remark : All reading are Quasi-Peak values.

Date of Test : Jan. 17, 2002 Temperature : 23.3°C

EUT : CD-RW DRIVE Humidity : 67%

Test Model : LTR-40125S Test Mode : Data Read

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBuV	Emission Level Horizontal dBuV/m	Limits dBuV/m	Margin dB
33.895	23.20	1.13	- 4.10	20.23	30.00	9.77
67.691	12.36	1.67	4.80	18.83	30.00	11.17
135.379	20.36	2.45	- 3.10	19.71	30.00	10.29
169.220	20.92	2.76	- 4.20	19.48	30.00	10.52
203.068	21.53	3.09	- 5.40	19.22	30.00	10.78
270.749	23.62	3.61	- 3.20	24.03	37.00	12.97
383.468	14.79	4.25	5.10	24.14	37.00	12.86
451.158	16.12	4.57	0.41	21.10	37.00	15.90
541.543	17.90	5.21	6.39	29.50	37.00	7.50
643.073	20.44	5.64	- 1.70	24.38	37.00	12.62
710.763	20.96	6.05	- 1.19	25.82	37.00	11.18
812.299	21.56	6.56	- 1.40	26.72	37.00	10.28
879.988	22.59	6.99	- 3.30	26.28	37.00	10.72

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBuV	Emission Level Vertical dBuV/m	Limits dBuV/m	Margin dB
67.703	12.47	1.67	5.71	19.85	30.00	10.15
135.379	20.10	2.45	- 4.30	18.25	30.00	11.75
169.225	21.78	2.76	- 3.41	21.13	30.00	8.87
203.069	22.42	3.09	- 4.20	21.31	30.00	8.69
236.914	21.82	3.34	- 2.30	22.86	37.00	14.14
270.760	23.25	3.61	- 1.20	25.66	37.00	11.34
338.439	14.94	3.99	7.26	26.19	37.00	10.81
406.145	16.26	4.40	0.51	21.17	37.00	15.83
541.523	18.55	5.21	5.14	28.90	37.00	8.10
676.898	20.40	5.95	1.23	27.58	37.00	9.42
710.744	20.96	6.05	- 2.29	24.72	37.00	12.28
812.247	22.44	6.56	1.92	30.92	37.00	6.08
846.073	22.65	6.74	- 0.50	28.89	37.00	8.11

Remark : All reading are Quasi-Peak values.

Date of Test : Jan. 18, 2002 Temperature : 21.7°C

EUT : CD-RW DRIVE Humidity : 69%

Test Model : LTR-40125S Test Mode : Data Write

Frequency MHz	Antenna	Cable	Meter Reading	Emission Level	Limits dBuV/m	Margin dB
	Factor dB/m	Loss dB	Horizontal dBuV	Horizontal dBuV/m		
67.605	12.33	1.67	3.89	17.89	30.00	12.11
101.485	18.06	2.08	1.70	21.84	30.00	8.16
135.296	20.36	2.45	- 5.20	17.61	30.00	12.39
169.142	20.92	2.76	- 1.50	22.18	30.00	7.82
202.987	21.53	3.09	- 6.00	18.62	30.00	11.38
236.831	22.25	3.34	0.41	26.00	37.00	11.00
270.685	23.62	3.61	- 3.60	23.63	37.00	13.37
338.346	13.99	3.99	11.00	28.98	37.00	8.02
406.056	15.07	4.40	5.40	24.87	37.00	12.13
439.875	15.77	4.61	7.10	27.48	37.00	9.52
541.413	17.90	5.21	1.59	24.70	37.00	12.30
642.948	20.44	5.64	1.20	27.28	37.00	9.72
778.325	21.58	6.45	1.20	29.23	37.00	7.77
846.017	22.96	6.74	- 5.41	24.29	37.00	12.71
913.705	22.76	7.14	- 4.00	25.90	37.00	11.10

Frequency MHz	Antenna	Cable	Meter Reading	Emission Level	Limits dBuV/m	Margin dB
	Factor dB/m	Loss dB	Vertical dBuV	Vertical dBuV/m		
33.759	22.81	1.13	- 5.70	18.24	30.00	11.76
67.600	12.48	1.67	2.20	16.35	30.00	13.65
135.294	20.10	2.45	- 2.60	19.95	30.00	10.05
169.140	21.78	2.76	- 7.61	16.93	30.00	13.07
202.983	22.42	3.09	- 4.50	21.01	30.00	8.99
236.830	21.82	3.34	- 1.50	23.66	37.00	13.34
270.672	23.25	3.61	- 5.30	21.56	37.00	15.44
338.346	14.93	3.99	9.70	28.62	37.00	8.38
406.072	16.26	4.40	0.69	21.35	37.00	15.65
507.602	17.46	4.93	3.69	26.08	37.00	10.92
642.981	19.77	5.64	1.20	26.61	37.00	10.39
744.516	21.08	6.23	0.70	28.01	37.00	8.99
812.205	22.44	6.56	0.10	29.10	37.00	7.90

Remark : All reading are Quasi-Peak values.

Date of Test : Jan. 18, 2002 Temperature : 21.7°C
 EUT : CD-RW DRIVE Humidity : 69%
 Test Model : LTR-40125S Test Mode : Audio Play

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading		Emission Level		Margin dB
			Horizontal dBuV		Horizontal dBuV/m	Limits dBuV/m	
33.758	23.26	1.13	- 4.40		19.99	30.00	10.01
67.606	12.33	1.67	2.59		16.59	30.00	13.41
135.300	20.36	2.45	- 0.50		22.31	30.00	7.69
169.143	20.92	2.76	- 5.40		18.28	30.00	11.72
202.987	21.53	3.09	- 3.50		21.12	30.00	8.88
236.830	22.25	3.34	- 3.49		22.10	37.00	14.90
270.674	23.62	3.61	- 5.90		21.33	37.00	15.67
338.381	13.99	3.99	10.30		28.28	37.00	8.72
406.068	15.07	4.40	3.20		22.67	37.00	14.33
507.588	17.06	4.93	4.40		26.39	37.00	10.61
* 609.114	19.73	5.53	4.30		29.56	37.00	7.44
710.656	20.96	6.05	- 1.19		25.82	37.00	11.18
846.037	22.96	6.74	- 0.61		29.09	37.00	7.91

- Remark :
1. All reading are Quasi-Peak values.
 2. The worst emission is detected at 609.114MHz with corrected signal level of 29.56dBuV/m (limit is 37dBuV/m) when the antenna is at horizontal polarization and is at 1.5m high and the turn table is at 350° .
 3. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

Date of Test : Jan. 18, 2002 Temperature : 21.7°C
 EUT : CD-RW DRIVE Humidity : 69%
 Test Model : LTR-40125S Test Mode : Audio Play

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBuV	Emission Level Vertical dBuV/m	Limits dBuV/m	Margin dB
33.764	22.81	1.13	- 2.40	21.54	30.00	8.46
67.603	12.48	1.67	3.70	17.85	30.00	12.15
135.301	20.10	2.45	- 1.50	21.05	30.00	8.95
169.141	21.78	2.76	- 7.31	17.23	30.00	12.77
202.990	22.42	3.09	- 4.40	21.11	30.00	8.89
270.678	23.25	3.61	- 2.20	24.66	37.00	12.34
338.385	14.94	3.99	10.10	29.03	37.00	7.97
406.058	16.26	4.40	3.09	23.75	37.00	13.25
507.606	17.46	4.93	5.99	28.38	37.00	8.62
* 609.095	19.52	5.53	6.90	31.95	37.00	5.05
676.795	20.40	5.95	2.80	29.15	37.00	7.85
710.635	20.96	6.05	- 2.70	24.31	37.00	12.69
845.983	22.65	6.74	- 0.01	29.38	37.00	7.62

- Remark :
1. All reading are Quasi-Peak values.
 2. The worst emission is detected at 609.095MHz with corrected signal level of 31.95dBuV/m (limit is 37dBuV/m) when the antenna is at vertical polarization and is at 1m high and the turn table is at 45° .
 3. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

3.8.2. 1GHz ~ 7GHz Frequency Range Measurement Results

Distance: 3Meters

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

Date of Test : Oct. 26, 2001 Temperature : 25°C

EUT : CD-RW DRIVE Humidity : 48%

Test Model : LTR-32123S Test Mode : Data Read

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
1028.979	24.69	4.17	32.52	56.59	52.93	74.00	21.07
1331.056	25.50	4.60	32.34	53.77	51.53	74.00	22.47
1716.128	26.31	5.38	32.17	51.63	51.15	74.00	22.85
2308.975	27.33	6.54	32.15	50.26	51.98	74.00	22.02
2721.946	27.94	7.13	32.26	48.06	50.87	74.00	23.13
3575.113	30.84	8.18	32.33	47.95	54.64	74.00	19.36
4677.897	33.19	9.46	32.40	45.97	56.22	74.00	17.78

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
1207.648	25.20	4.44	32.41	50.57	47.80	74.00	26.20
1716.790	26.31	5.38	32.17	51.46	50.98	74.00	23.02
2308.261	27.33	6.54	32.15	47.10	48.82	74.00	25.18
2708.054	27.91	7.11	32.25	47.75	50.52	74.00	23.48
3121.898	28.85	7.63	32.32	45.92	50.08	74.00	23.92
3548.980	30.74	8.15	32.33	47.76	54.32	74.00	19.68
4732.684	33.25	9.53	32.40	45.56	55.94	74.00	18.06

- Remark :
1. Measurement at Anechoic Chamber with test voltage 120V/60Hz.
 2. Emission Level = Antenna Factor + Cable Loss + Meter Reading – Pre-Amp Factor.
 3. Measurement was up to 7GHz, but above 5GHz the emissions level were too low against the official limit and not report.

Date of Test : Jan. 23, 2002 Temperature : 19°C

EUT : CD-RW DRIVE Humidity : 50 %

Test Model : LTR-40125S Test Mode : Audio 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
1203.038	25.29	4.59	40.56	39.50	28.82	74.00	45.18
2526.980	28.92	6.51	40.12	32.96	28.27	74.00	45.73
3904.488	32.69	8.39	39.71	32.50	33.86	74.00	40.14
4742.369	33.47	9.17	39.39	32.18	35.43	74.00	38.57
5327.782	34.50	9.61	39.31	30.66	35.45	74.00	38.55
5766.989	34.70	10.05	39.33	31.37	36.79	74.00	37.21
6161.226	34.80	10.37	39.34	31.69	37.52	74.00	36.48
6546.500	35.12	10.52	39.34	34.28	40.58	74.00	33.42
6781.500	34.26	10.73	39.34	34.26	41.35	74.00	32.65
6976.000	36.18	10.88	39.34	34.94	42.66	74.00	31.34

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
1201.360	25.29	4.59	40.57	52.85	42.16	74.00	31.84
1463.128	25.39	5.33	40.38	47.30	37.63	74.00	36.37
1901.086	27.38	6.37	40.13	44.61	38.23	74.00	35.77
2255.144	28.34	6.17	40.10	40.53	34.94	74.00	39.06
5252.832	34.41	9.54	39.31	31.61	36.25	74.00	37.75
6011.326	34.71	10.30	39.34	32.25	37.92	74.00	36.08
6619.000	35.31	10.58	39.34	34.62	41.16	74.00	32.84
6703.000	35.51	10.68	39.34	34.71	41.57	74.00	32.43
6940.500	36.09	10.85	39.34	33.85	41.45	74.00	32.55

Remark : 1. Measurement at Anechoic Chamber with test voltage 120V/60Hz.
 2. Emission Level = Antenna Factor + Cable Loss + Meter Reading – Pre-Amp Factor.

4. DEVIATION TO TEST SPECIFICATIONS

【NONE】