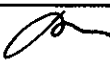
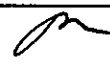



# FPS1000 - 12

## EMI TEST DATA

DWG: IA659-53-02		
APPD	CHK	DWG
 29.05.07	 29.05.07	 21.05.07



NEMIC-LAMBDA LTD.

## INDEX

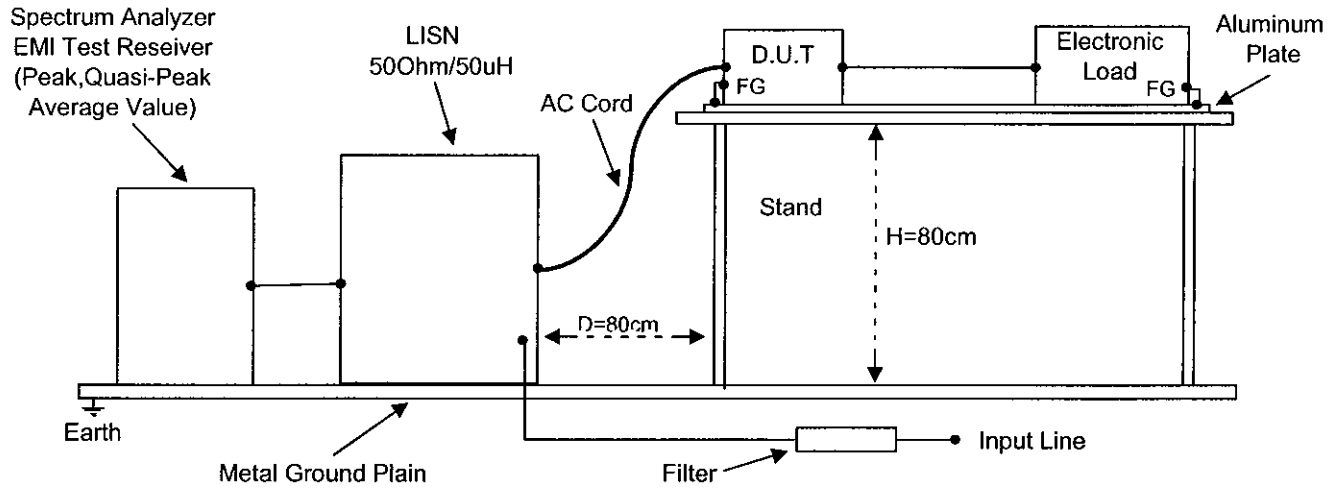
## PAGE

1.TEST METHOD	R-1
2.TEST DATA	
2-1. Conducted emission	R2~9
2-2. Radiated emission	R10~13

The above data is typical value data.

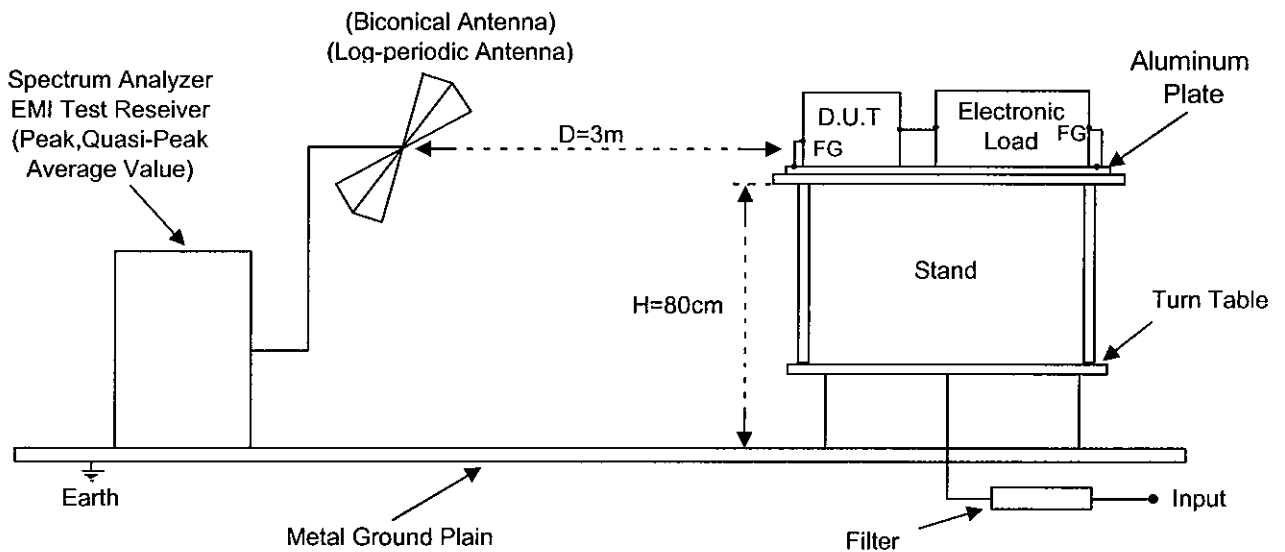
The values are considered to be actual capability data.

## (1) Conducted Emission



SPECTRUM ANALYZER	8567A	(HEWLETT. PACKARD)
EMI TEST RECEIVER	ESS	(ROHDE & SCHWARZ)
LISN	3825/2	(EMCO)

## (2) Radiated Emission



SPECTRUM ANALYZER	MS2601A	(ANRITSU)
EMI TEST RECEIVER	85462A	(HEWLETT. PACKARD)
BICONICAL ANTENNA	3110BA30/200	(EMCO)
LOG-PERIODIC ANTENNA	LP200000	(ELECTROMETRIX)
	LPA2530	(ELECTROMETRIX)

## 2. Test Data

**FPS1000 - 12**

### 2-1. Conducted Emission

#### (1) Test condition

Input voltage/frequency: 115VAC/50Hz  
Output current: 100%  
Ambient temperature: 25°C  
Regulation: FCC Class B, EN55022-B

#### (2) Test results

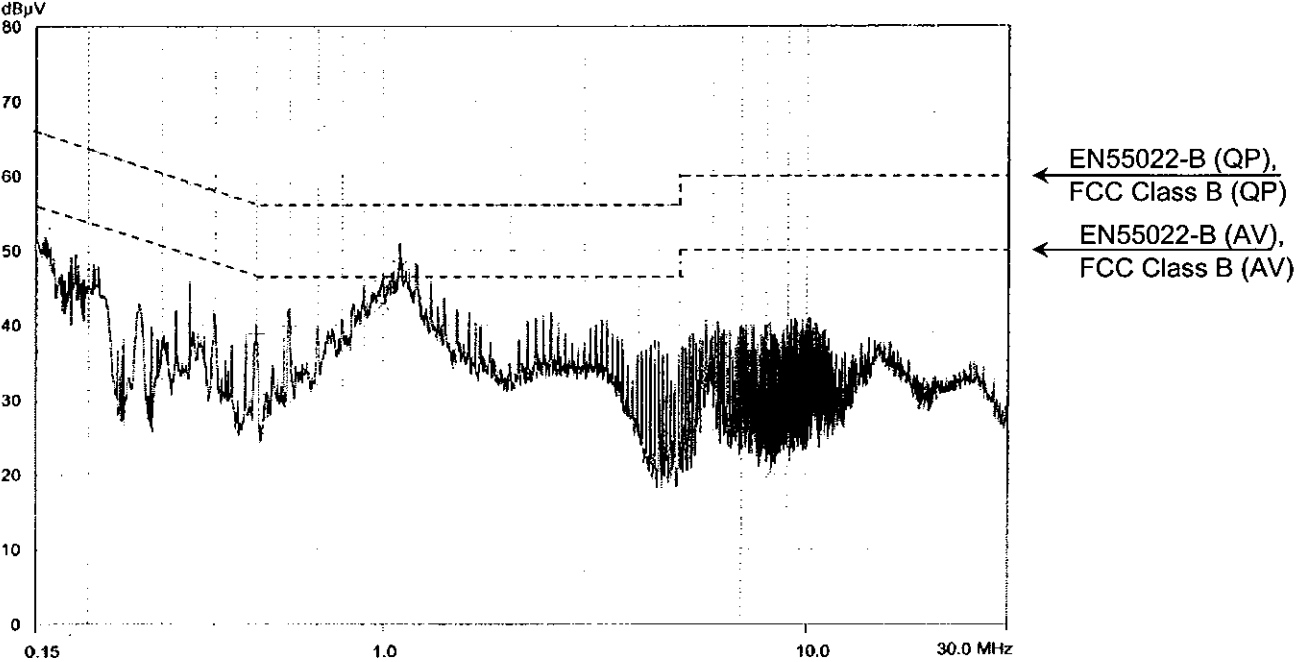
Inteference wave list

PHASE	FREQ MHz	RESULT		EN55022-B / FCC Class B			
		RESULT		LIMIT		MARGIN	
		QP dB $\mu$ V	AV dB $\mu$ V	QP dB $\mu$ V	AV dB $\mu$ V	QP dB $\mu$ V	AV dB $\mu$ V
L	0.59779	-	39.90	56.00	46.00	-	6.10
	1.09515	47.78	40.22	56.00	46.00	8.22	5.78
	2.39195	-	36.87	56.00	46.00	-	9.13
N	1.09515	-	38.28	56.00	46.00	-	7.72
	1.39466	-	37.19	56.00	46.00	-	8.82

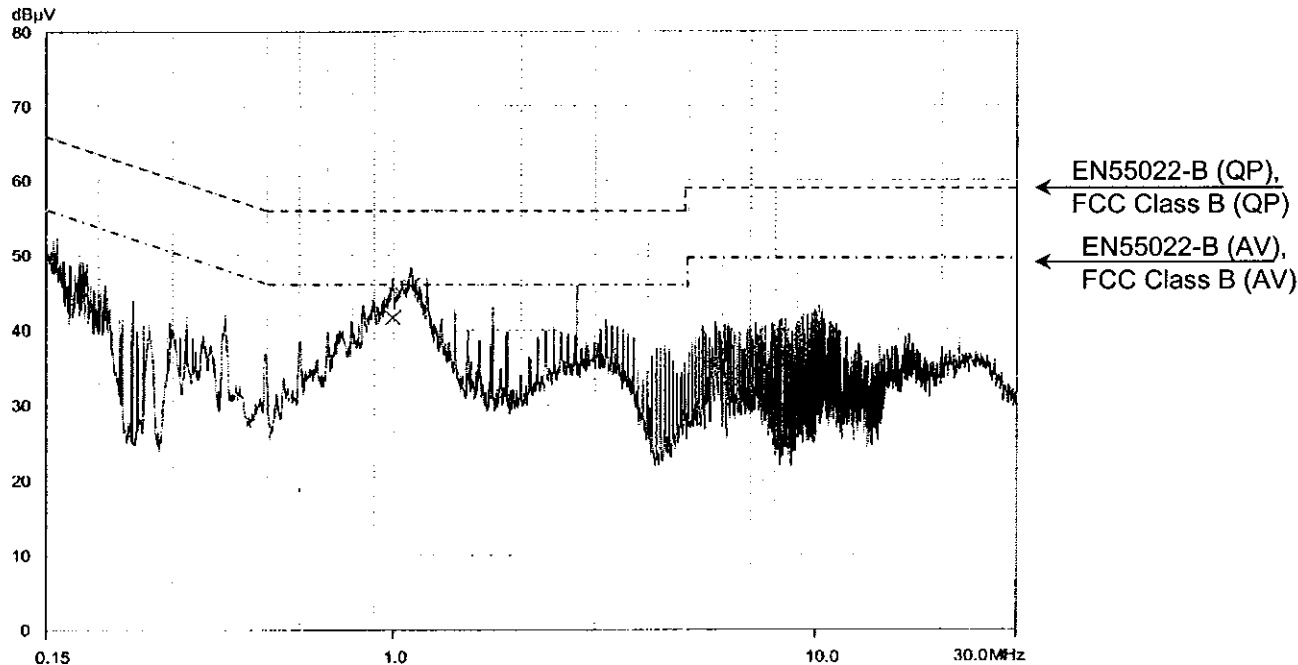
**EMI**  
Electro-Magnetic Interference characteristics

Conditions: Vin: 115VAC  
Iout: 100%  
Ta: 25°C

Phase L



Phase N



(1) Test condition

Input voltage/frequency: 115VAC/50Hz  
 Output current: 100%  
 Ambient temperature: 25°C  
 Regulation: FCC Class B, EN55022-B

(2) Test results

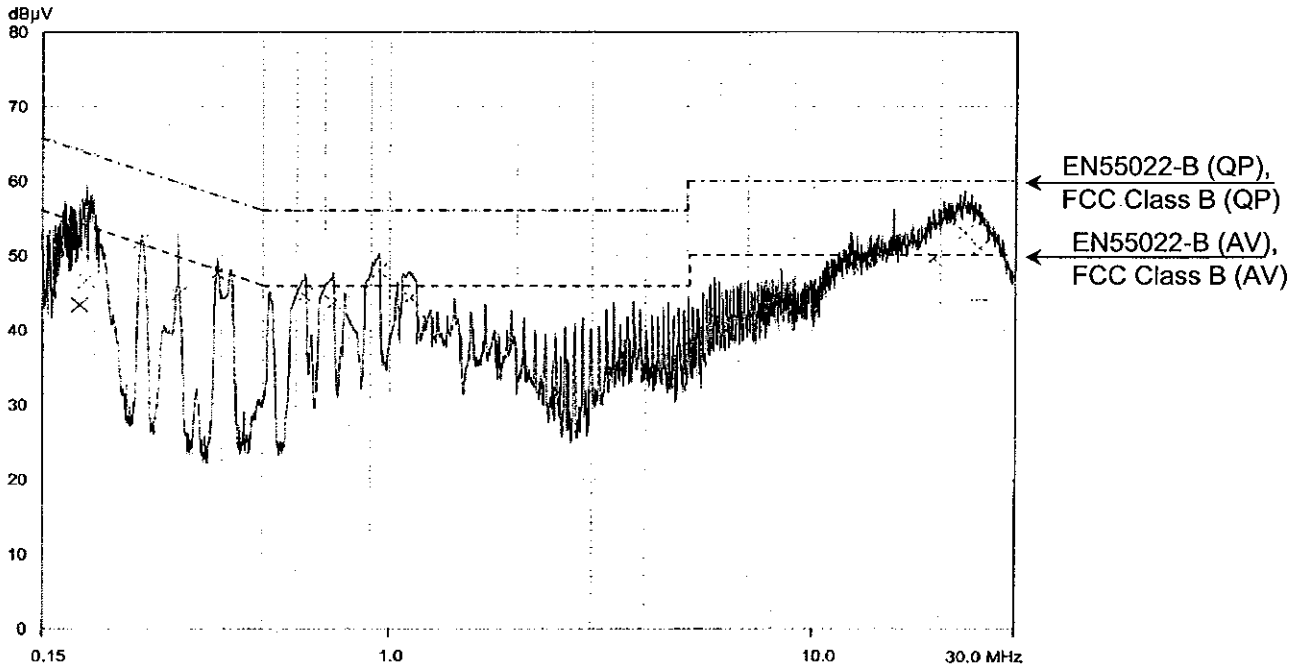
Inteference wave list

PHASE	FREQ MHz	EN55022-B / FCC Class B					
		RESULT		LIMIT		MARGIN	
		QP dBµV	AV dBµV	QP dBµV	AV dBµV	QP dBµV	AV dBµV
L	0.21067	-	44.60	63.18	53.18	-	8.58
	0.25829	51.94	-	61.49	51.49	9.55	-
	0.25932	-	46.75	61.45	51.45	-	4.70
	0.42140	-	41.43	57.42	47.42	-	5.99
	0.93898	47.92	-	56.00	46.00	8.08	-
	22.82500	53.08	-	60.00	50.00	6.92	-
	24.23497	-	44.38	60.00	50.00	-	5.62
	24.62545	-	44.02	60.00	50.00	-	5.98
24.67470	51.00	-	60.00	50.00	9.00	-	
N	0.25984	-	44.29	61.44	51.44	-	7.15
	0.42056	-	40.50	57.44	47.44	-	6.94
	0.94086	46.98	-	56.00	46.00	9.02	-
	19.33704	-	43.63	60.00	50.00	-	6.37
	22.96223	-	45.60	60.00	50.00	-	4.40
	24.38067	-	45.06	60.00	50.00	-	4.94

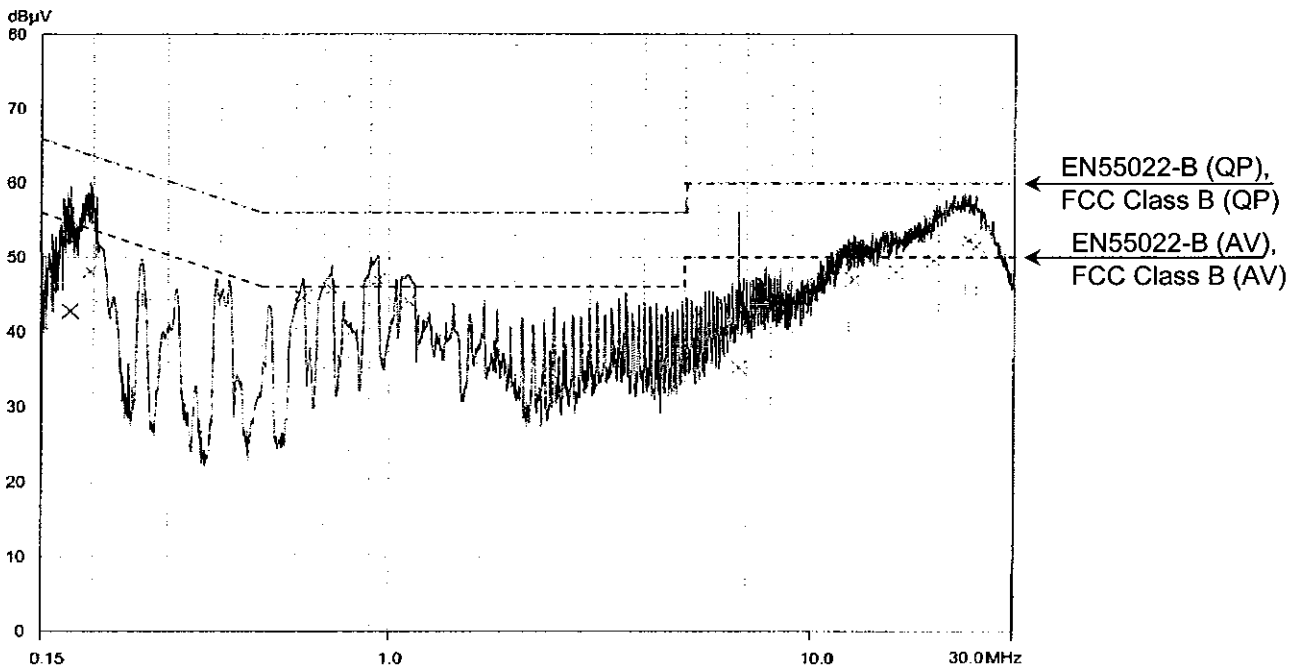
EMI  
Electro-Magnetic Interference characteristics

Conditions: Vin: 115VAC  
Iout: 100%  
Ta: 25°C

Phase L



Phase N



(1) Test condition

Input voltage/frequency: 230VAC/50Hz  
 Output current: 100%  
 Ambient temperature: 25°C  
 Regulation: FCC Class B, EN55022-B

(2) Test results

Inteference wave list

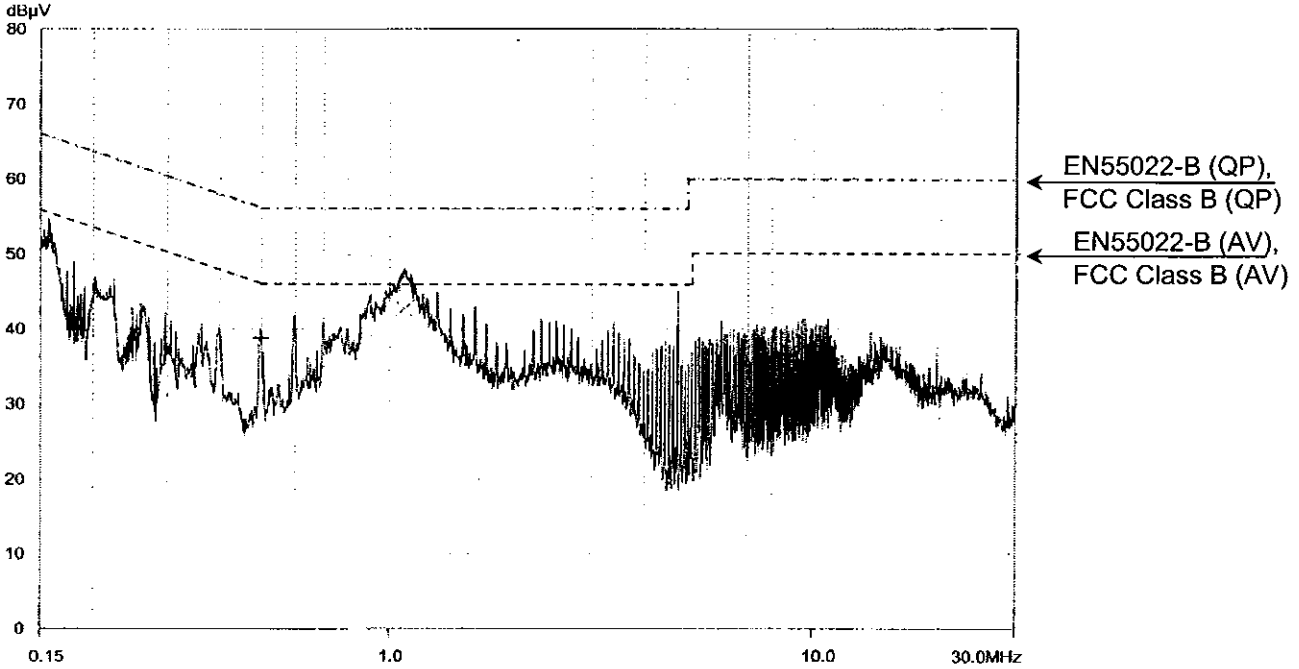
PHASE	FREQ MHz	EN55022-B / FCC Class B					
		RESULT		LIMIT		MARGIN	
		QP dBµV	AV dBµV	QP dBµV	AV dBµV	QP dBµV	AV dBµV
L	0.49742	-	38.78	56.04	46.04	-	7.26
	0.59660	-	40.08	56.00	46.00	-	5.92
	1.07994	42.68	-	56.00	46.00	13.32	-
N	0.99301	42.60	-	56.00	46.00	13.40	-
	1.09296	43.52	37.97	56.00	46.00	12.48	8.03
	1.48971	-	36.67	56.00	46.00	-	9.33



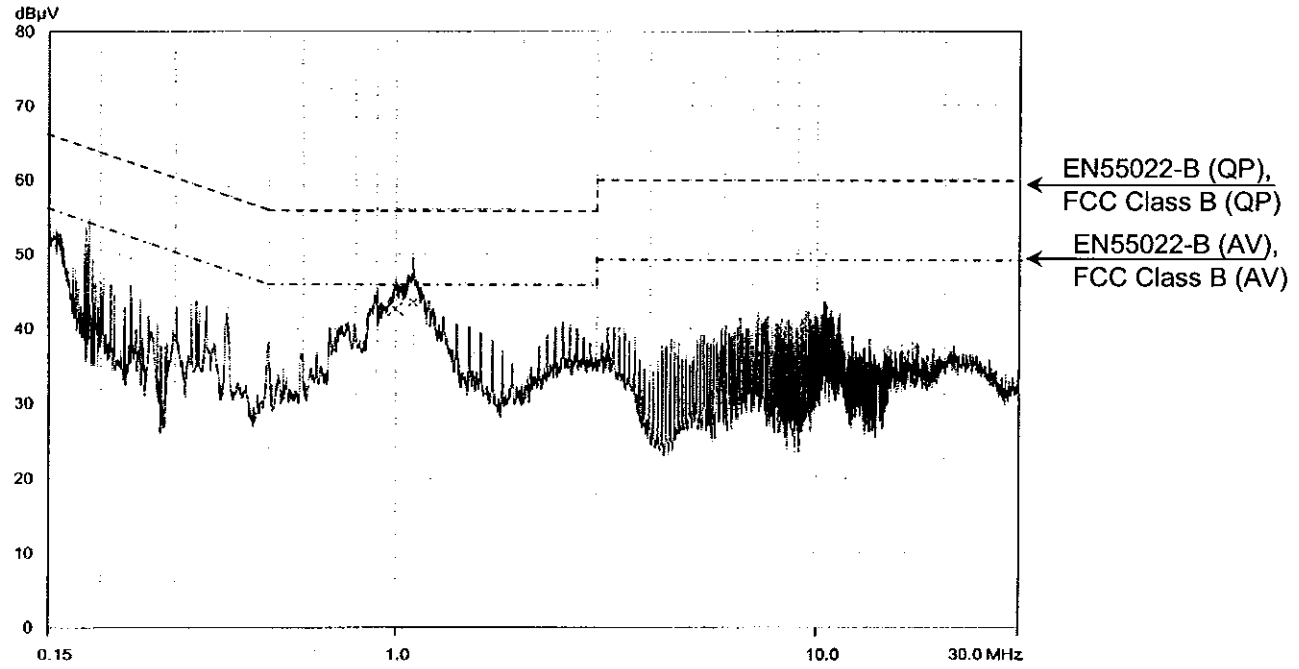
EMI  
Electro-Magnetic Interference characteristics

Conditions: Vin: 230VAC  
Iout: 100%  
Ta: 25°C

Phase L



Phase N



(1) Test condition

Input voltage/frequency: 230VAC/50Hz  
 Output current: 100%  
 Ambient temperature: 25°C  
 Regulation: FCC Class B, EN55022-B

(2) Test results

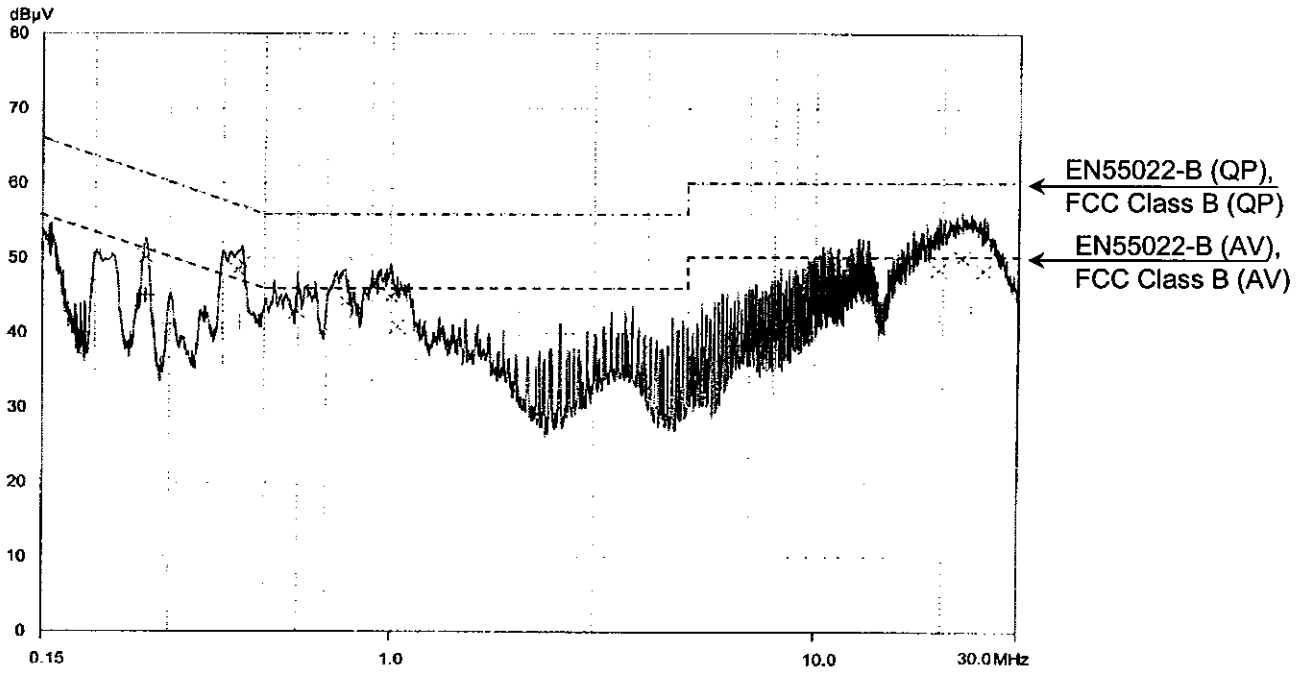
Inteference wave list

PHASE	FREQ	EN55022-B / FCC Class B					
		RESULT		LIMIT		MARGIN	
		QP	AV	QP	AV	QP	AV
	MHz	dBµV	dBµV	dBµV	dBµV	dBµV	dBµV
L	0.26245	-	45.00	61.35	51.35	-	6.35
	0.43249	48.40	-	57.20	47.20	8.80	-
	0.43683	-	41.48	57.12	47.12	-	5.64
	0.44299	49.28	-	57.01	47.01	7.73	-
	0.59779	42.86	39.29	56.00	46.00	13.14	6.71
	23.14648	-	42.96	60.00	50.00	-	7.04
N	0.43163	-	40.13	57.22	47.22	-	7.09
	0.43858	-	41.63	57.09	47.09	-	5.46
	0.44299	49.10	-	57.01	47.01	7.91	-
	21.15619	-	42.23	60.00	50.00	-	7.77
	24.28344	-	41.24	60.00	50.00	-	8.76

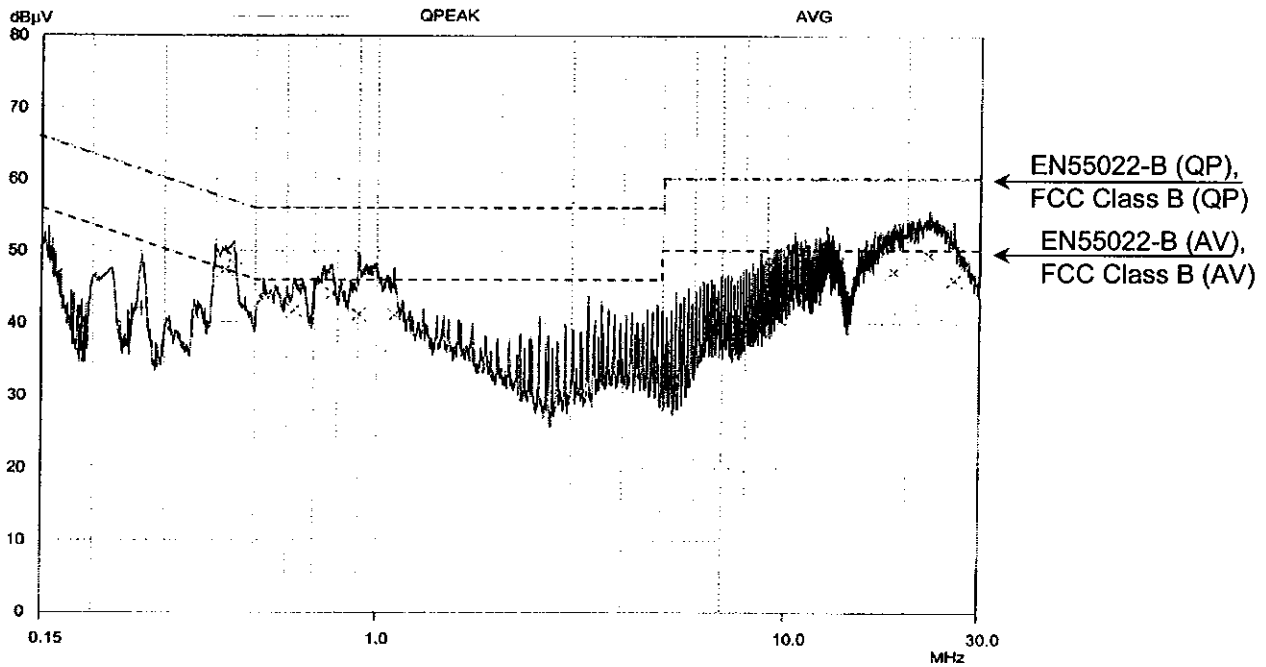
EMI  
Electro-Magnetic Interference characteristics

Conditions: Vin: 230VAC  
Iout: 100%  
Ta: 25°C

Phase L



Phase N

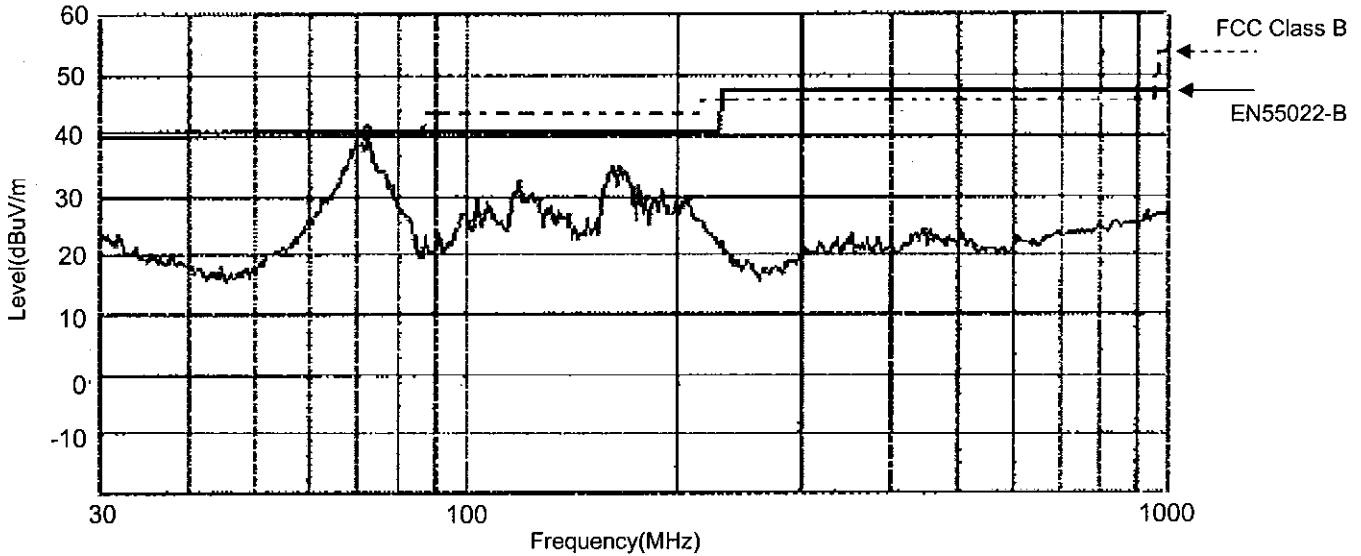


2-2. Radiated Emission

EMI  
Electro-Magnetic interference characteristics

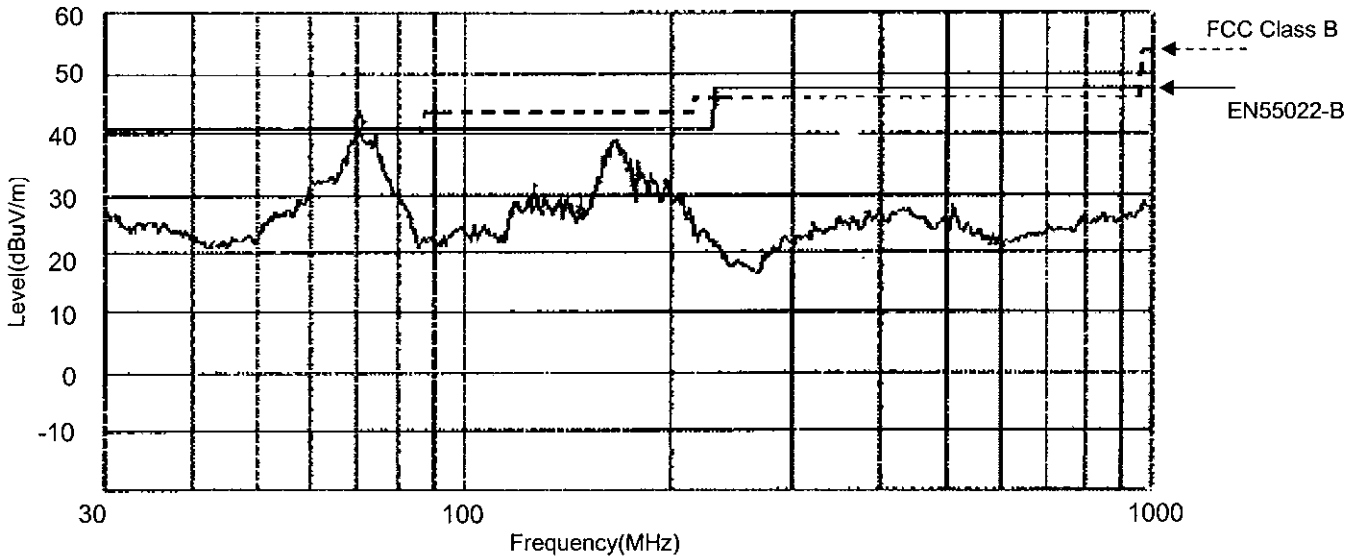
Conditions: Vin: 115VAC  
Vout: 12V  
Iout: 100%  
Ta: 25°C

HORIZONTAL



Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit EN55022-B (dBuV/m)	QP margin (dB)	Limit FCC Class B (dBuV/m)	QP margin (dB)
72.56975	39.52	34.82	40.50	5.68	40.00	5.18

VERTICAL



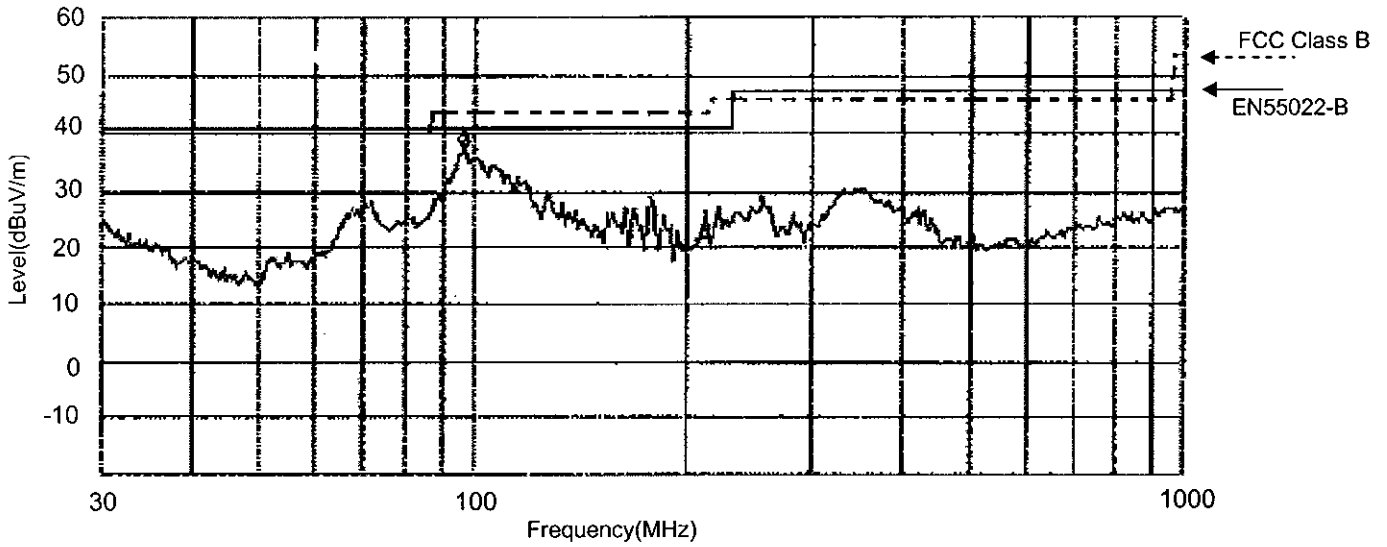
Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit EN55022-B (dBuV/m)	QP margin (dB)	Limit FCC Class B (dBuV/m)	QP margin (dB)
70.428754	41.32	36.83	40.50	3.67	40.00	3.17
164.739645	38.71	34.21	40.50	6.29	43.50	9.29

Limits of EN55022-B are same as VCCI-B

EMI  
Electro-Magnetic interference characteristics

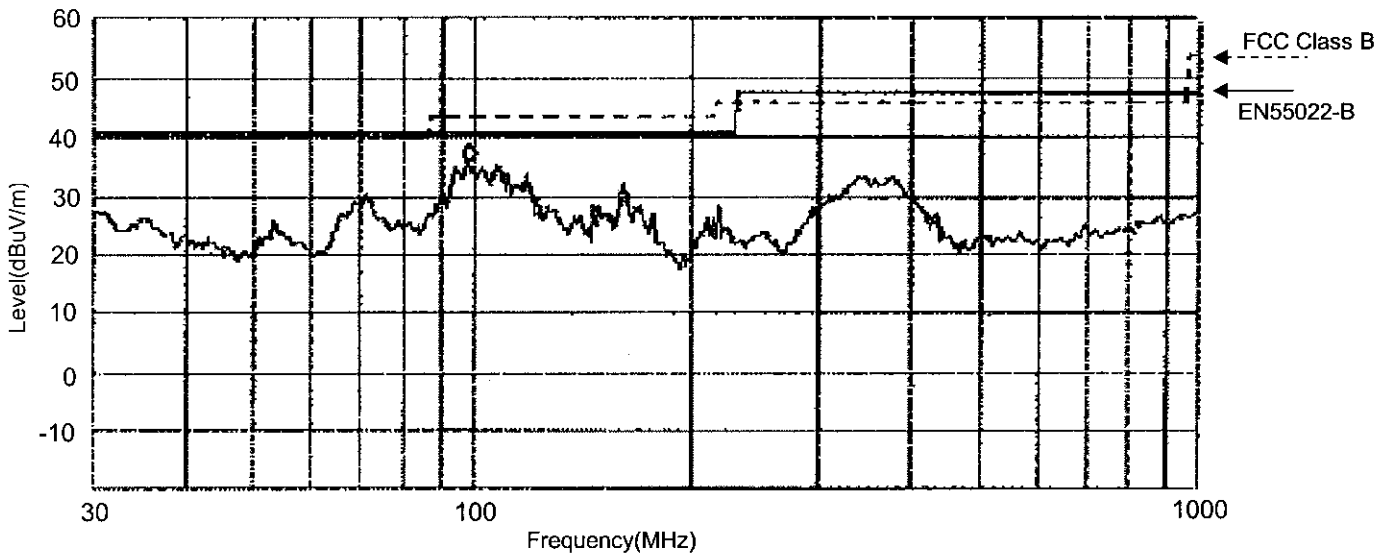
Conditions: Vin: 115VAC  
Vout: 12V  
Iout: 100%  
Ta: 25°C

HORIZONTAL



Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit EN55022-B (dBuV/m)	QP margin (dB)	Limit FCC Class B (dBuV/m)	QP margin (dB)
98.347353	37.78	34.67	40.50	5.83	43.50	8.83

VERTICAL



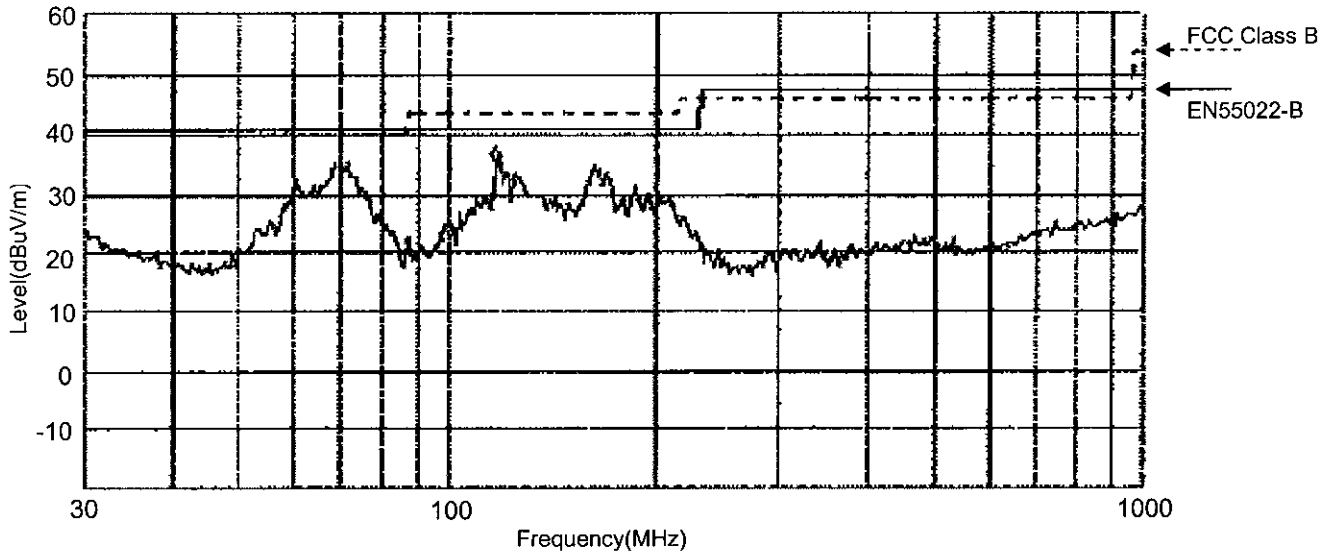
Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit EN55022-B (dBuV/m)	QP margin (dB)	Limit FCC Class B (dBuV/m)	QP margin (dB)
99.859326	35.86	32.46	40.50	8.04	43.50	11.04

Limits of EN55022-B are same as VCCI-B

EMI  
Electro-Magnetic interference characteristics

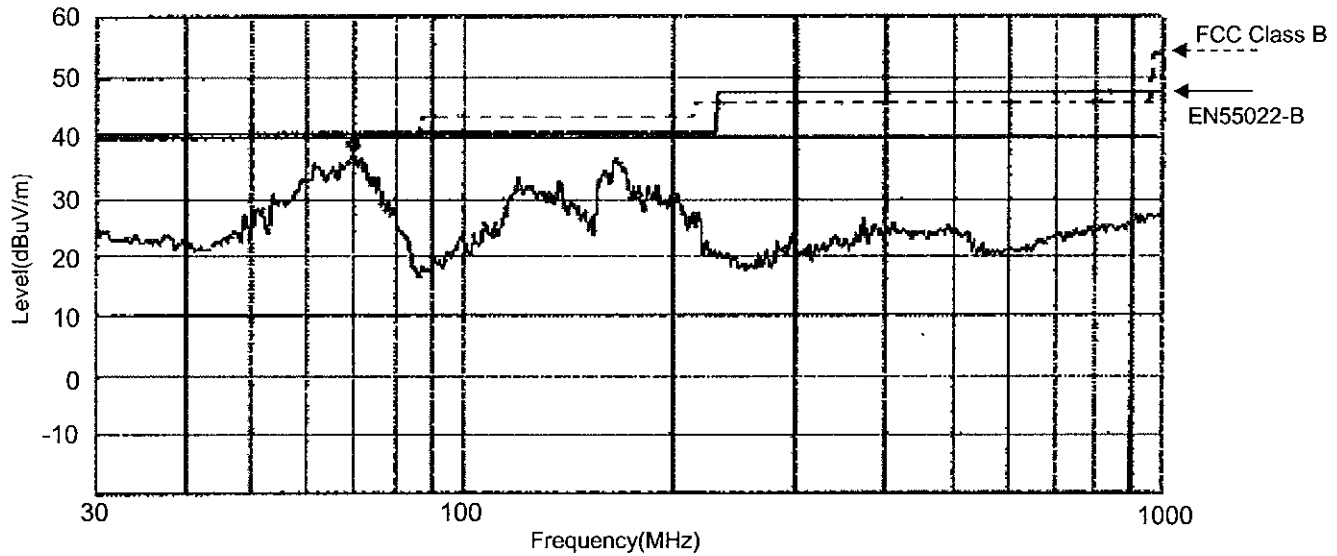
Conditions: Vin: 230VAC  
Vout: 12V  
Iout: 100%  
Ta: 25°C

HORIZONTAL



Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit EN55022-B (dBuV/m)	QP margin (dB)	Limit FCC Class B (dBuV/m)	QP margin (dB)
117.376452	36.51	32.12	40.50	8.38	43.50	11.38

VERTICAL



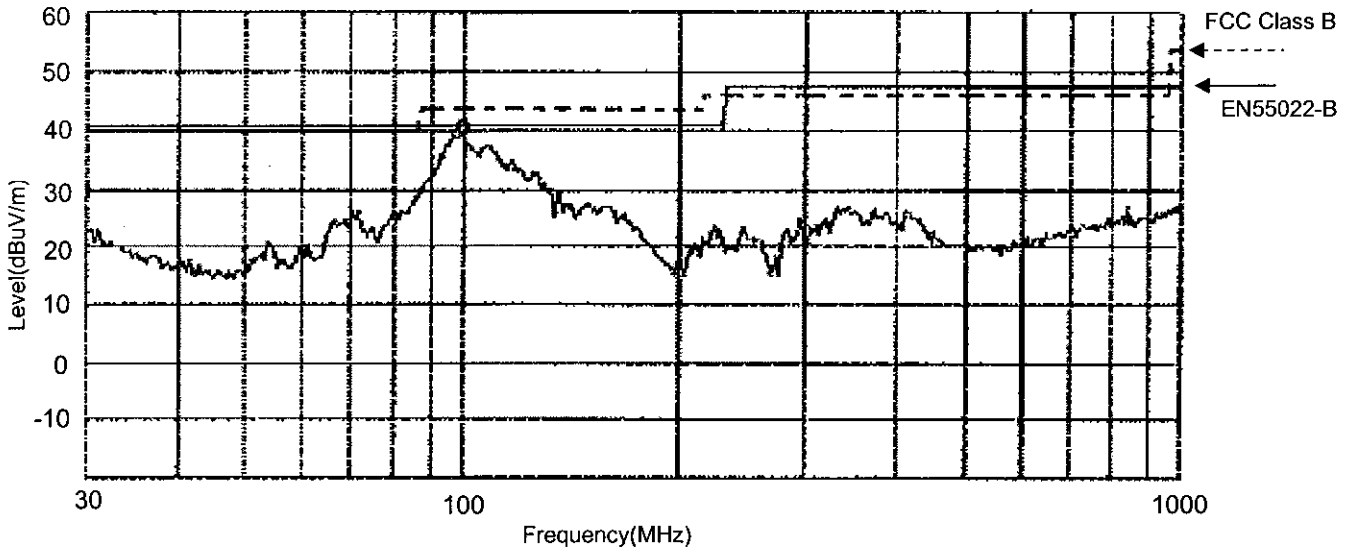
Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit EN55022-B (dBuV/m)	QP margin (dB)	Limit FCC Class B (dBuV/m)	QP margin (dB)
69.745364	37.52	32.83	40.50	7.67	40.00	7.17
160.536643	36.25	32.03	40.50	8.47	43.50	11.47

Limits of EN55022-B are same as VCCI-B

**EMI**  
Electro-Magnetic interference characteristics

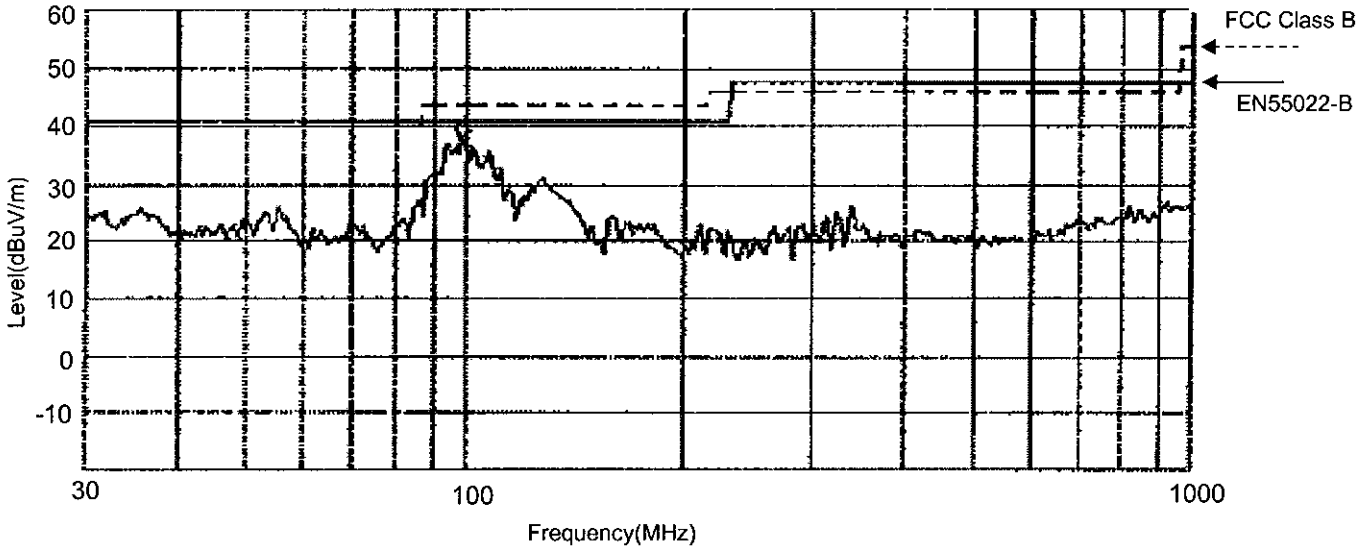
Conditions: Vin: 230VAC  
Vout: 12V  
Iout: 100%  
Ta: 25°C

**HORIZONTAL**



Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit EN55022-B (dBuV/m)	QP margin (dB)	Limit FCC Class B (dBuV/m)	QP margin (dB)
99.937353	39.61	36.47	40.50	4.03	43.50	7.03

**VERTICAL**



Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit EN55022-B (dBuV/m)	QP margin (dB)	Limit FCC Class B (dBuV/m)	QP margin (dB)
99.973258	38.04	35.03	40.50	5.47	43.50	8.47

Limits of EN55022-B are same as VCCI-B