


Z⁺400 Series

EMI DATA

DWG No.: IA710-58-02		
APPD	CHK	DWG
Doron P.		Yaniv
Jun-5-2012	5/1/12	05.01.2012

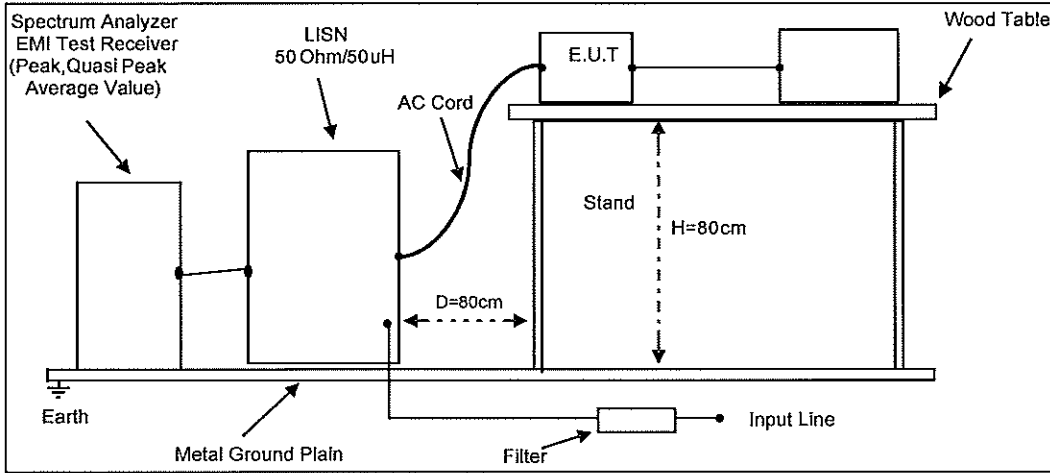
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The above data is typical value data.

The values are considered to be actual capability data.

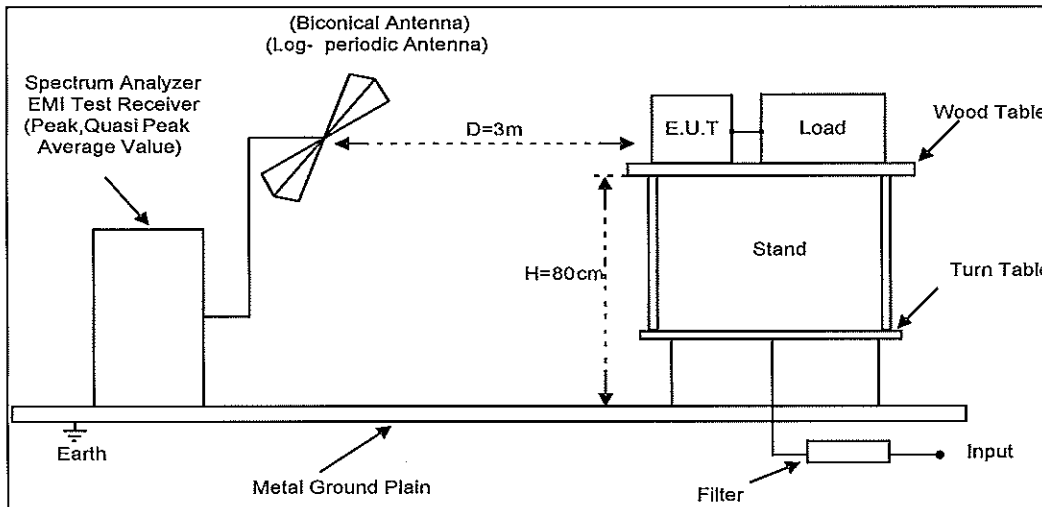
1. Test Method

(1) Conducted Emission



SPECTRUM ANALYZER	8567A	(HEWLETT. PACKARD)
EMI TEST RECEIVER	ESPI	(ROHDE & SCHWARZ)
LISN	ENV4200	(ROHDE & SCHWARZ)

(2) Radiated Emission



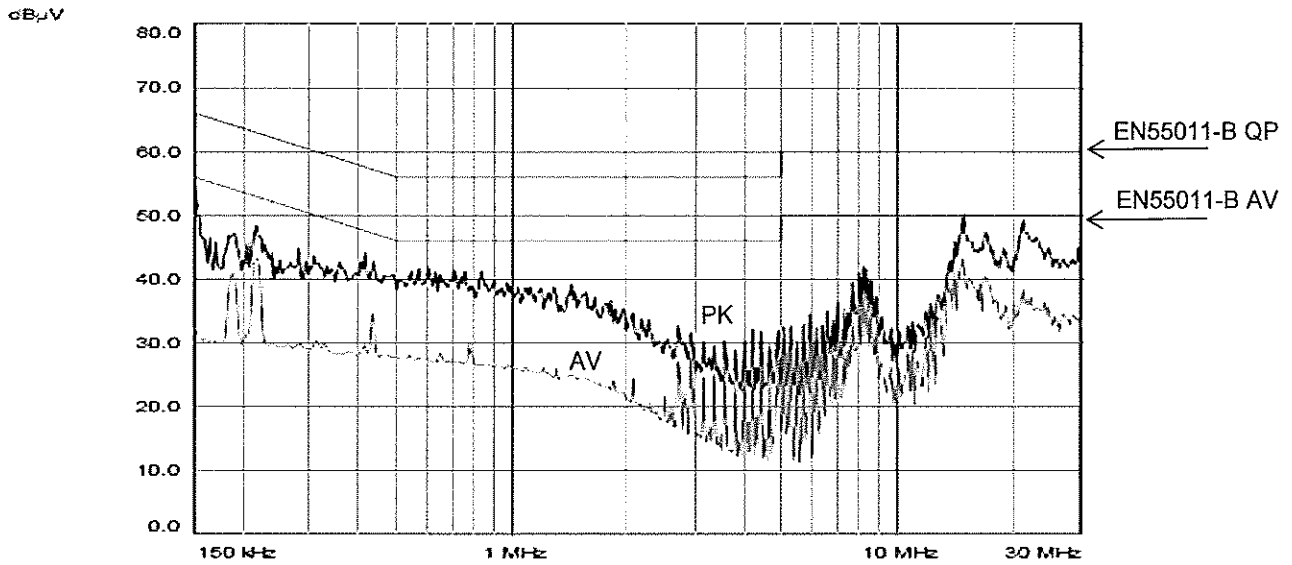
SPECTRUM ANALYZER	MS2601A	(ANRITSU)
EMI TEST RECEIVER	85462A	(HEWLETT. PACKARD)
BICONICAL ANTENNA	3110BA30/200	(EMCO)
LOG-PERIODIC ANTENNA	LP200000	(ELECTROMETRIX)
	LPA2530	(ELECTROMETRIX)

2. Test Data

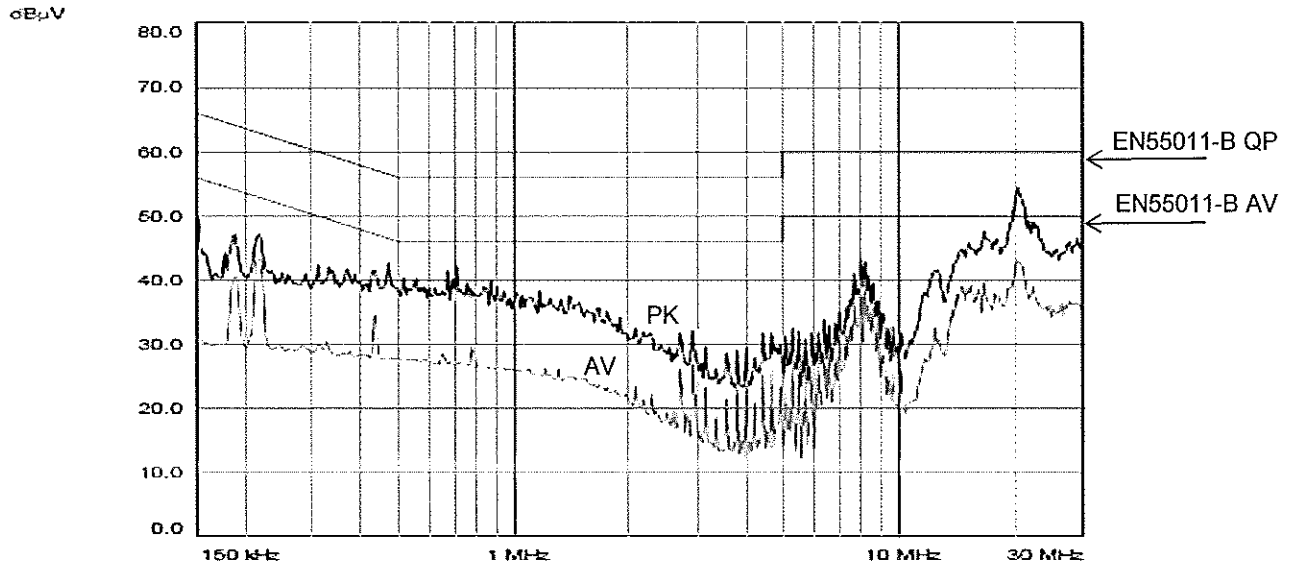
2.1 Conducted Emission

Conditions: Vin:115Vac
 Vout: 100%
 Iout: 100%
 Ta = 25°C

Z10-40



PHASE	FREQ MHz	RESULT		LIMIT		MARGIN	
		QP dBµV	AV dBµV	QP dBµV	AV dBµV	QP dBµV	AV dBµV
L	14.45	43.0	41.0	60.0	50.0	-17.0	-9.0
	14.89	42.9	35.4	60.0	50.0	-17.2	-14.6



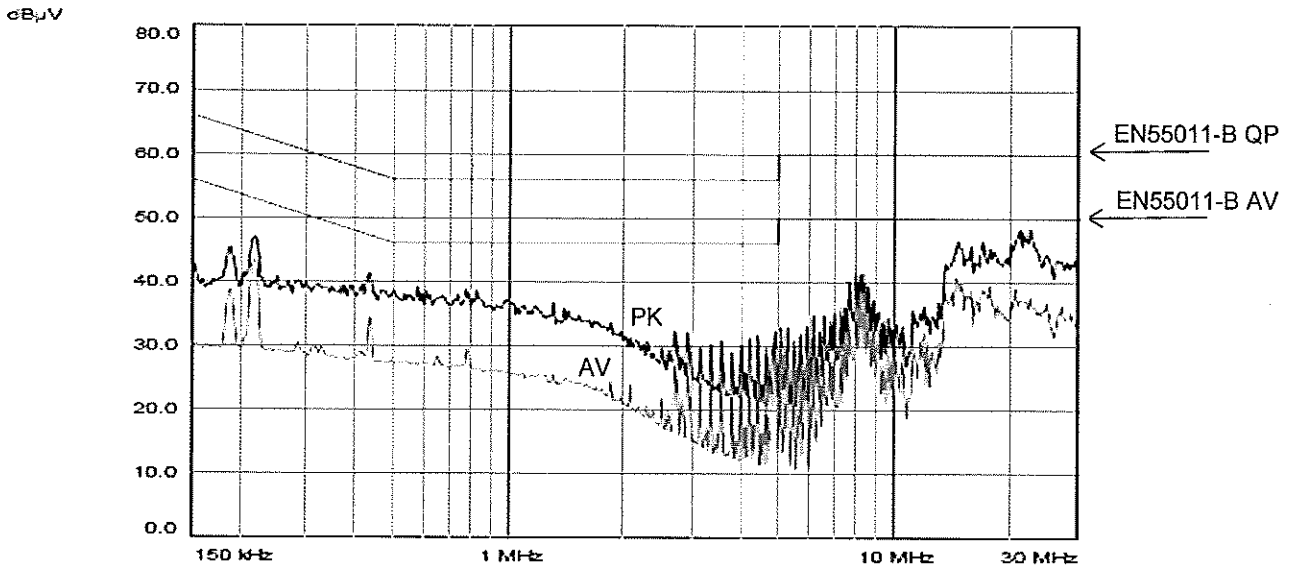
PHASE	FREQ MHz	RESULT		LIMIT		MARGIN	
		QP dBµV	AV dBµV	QP dBµV	AV dBµV	QP dBµV	AV dBµV
N	0.22	46.0	43.4	63.0	52.9	-17.0	-9.5
	20.44	37.7	31.0	60.0	50.0	-22.3	-18.99

Limit of EN55011-B, EN55022-B are the same

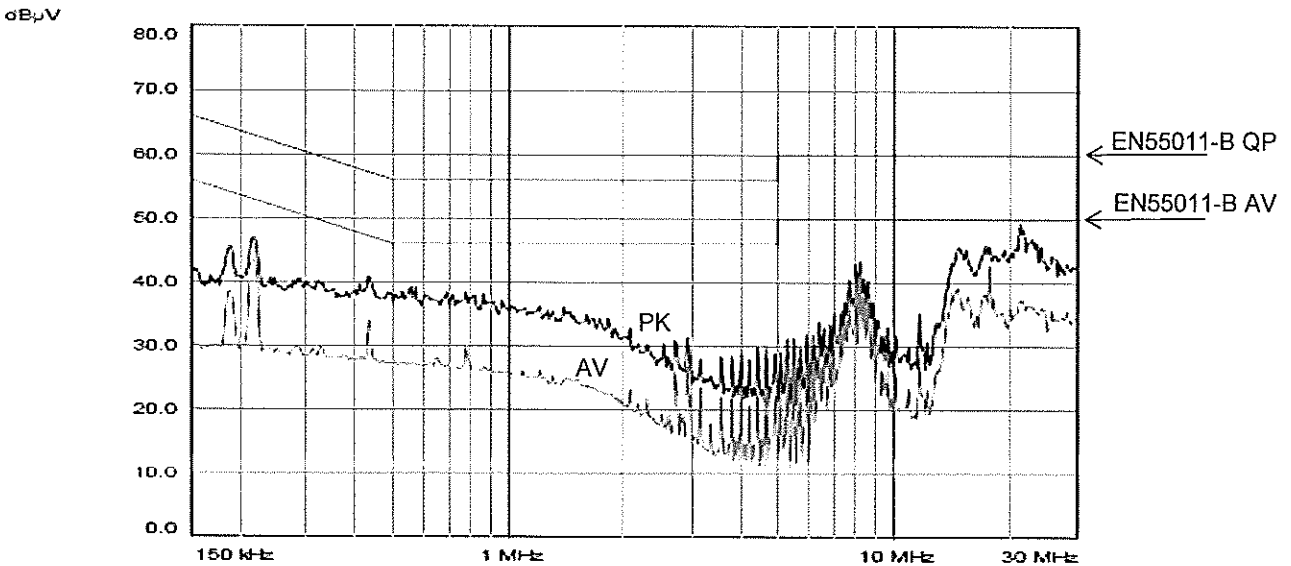
2.1 Conducted Emission

Conditions: Vin:230Vac
 Vout: 100%
 Iout: 100%
 Ta = 25°C

Z10-40



PHASE	FREQ MHz	RESULT		LIMIT		MARGIN	
		QP dBµV	AV dBµV	QP dBµV	AV dBµV	QP dBµV	AV dBµV
L	0.22	46.2	43.0	64.3	52.9	-18.1	-9.9
	14.45	46.4	42.4	60.0	50.0	-13.6	-7.6



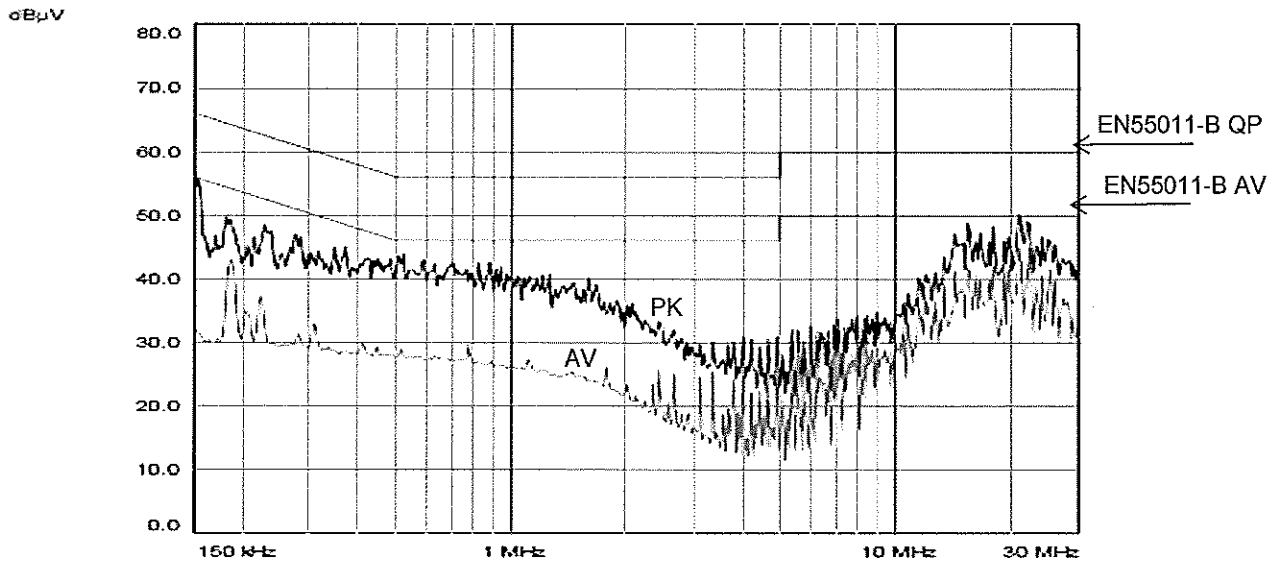
PHASE	FREQ MHz	RESULT		LIMIT		MARGIN	
		QP dBµV	AV dBµV	QP dBµV	AV dBµV	QP dBµV	AV dBµV
N	8.15	43.3	41.3	60.0	50.0	-16.7	-8.7
	17.88	45.2	37.7	60.0	50.0	-14.8	-12.3

Limit of EN55011-B, EN55022-B are the same

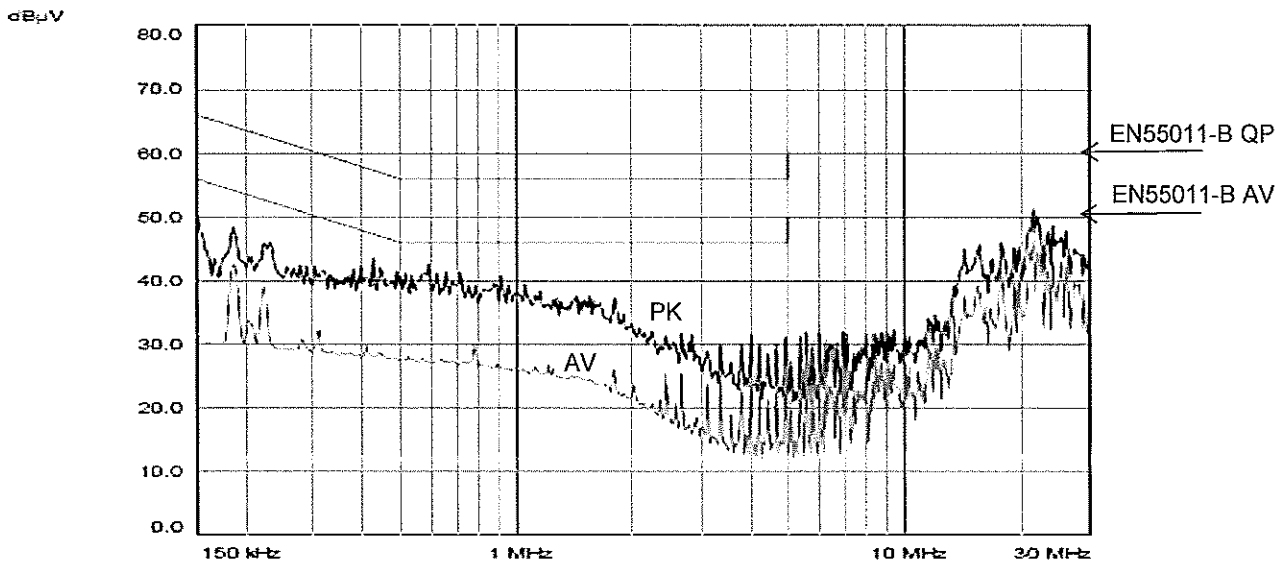
2.1 Conducted Emission

Conditions: Vin:115Vac
 Vout: 100%
 Iout: 100%
 Ta = 25°C

Z36-12



PHASE	FREQ MHz	RESULT		LIMIT		MARGIN	
		QP dBµV	AV dBµV	QP dBµV	AV dBµV	QP dBµV	AV dBµV
L	20.96	47.5	44.9	60.0	50.0	-12.5	-5.1
	0.15	43.4	32.3	66.0	56.0	-22.6	-23.7



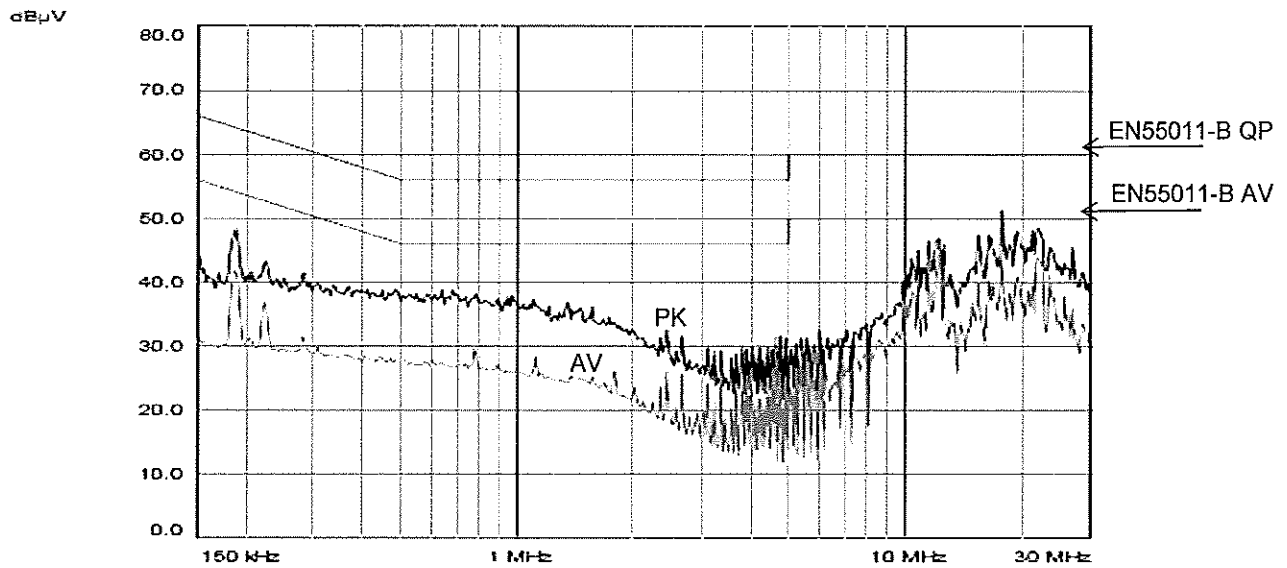
PHASE	FREQ MHz	RESULT		LIMIT		MARGIN	
		QP dBµV	AV dBµV	QP dBµV	AV dBµV	QP dBµV	AV dBµV
N	21.51	44.8	40.9	60.0	50.0	-15.2	-9.1
	22.07	48.0	45.0	60.0	50.0	-12.0	-5.0

Limit of EN55011-B, EN55022-B are the same

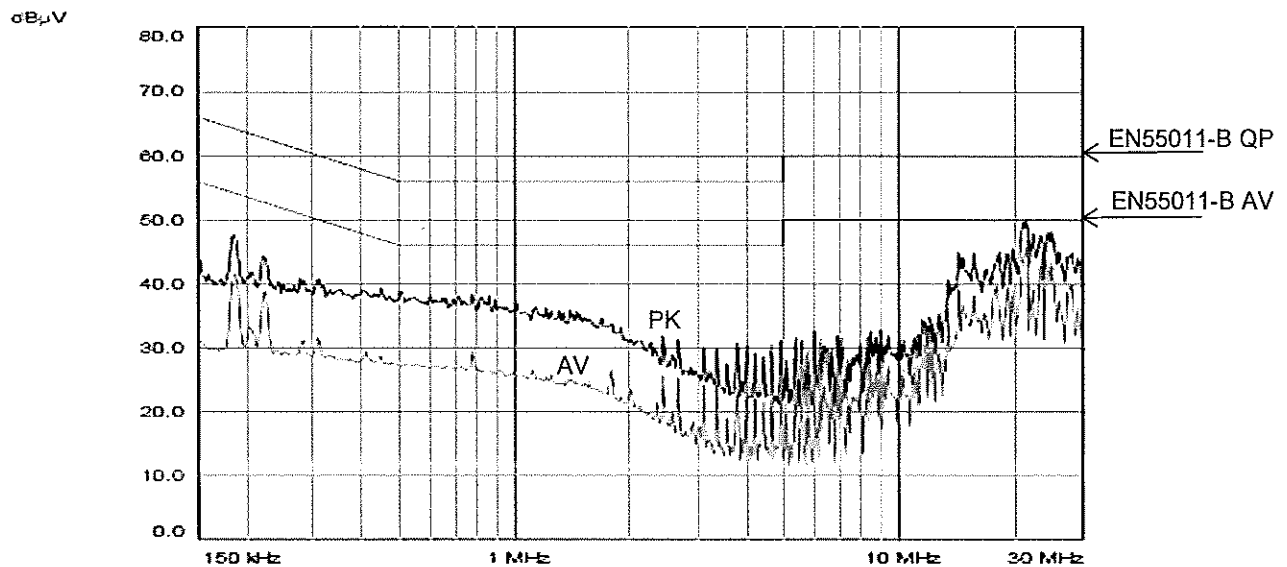
2.1 Conducted Emission

Conditions: Vin:230Vac
 Vout: 100%
 Iout: 100%
 Ta = 25°C

Z36-12



PHASE	FREQ MHz	RESULT		LIMIT		MARGIN	
		QP dBµV	AV dBµV	QP dBµV	AV dBµV	QP dBµV	AV dBµV
L	17.84	48.4	44.0	60.0	50.0	-11.6	-6.0
	22.75	44.1	39.8	60.0	50.0	-15.9	-10.2



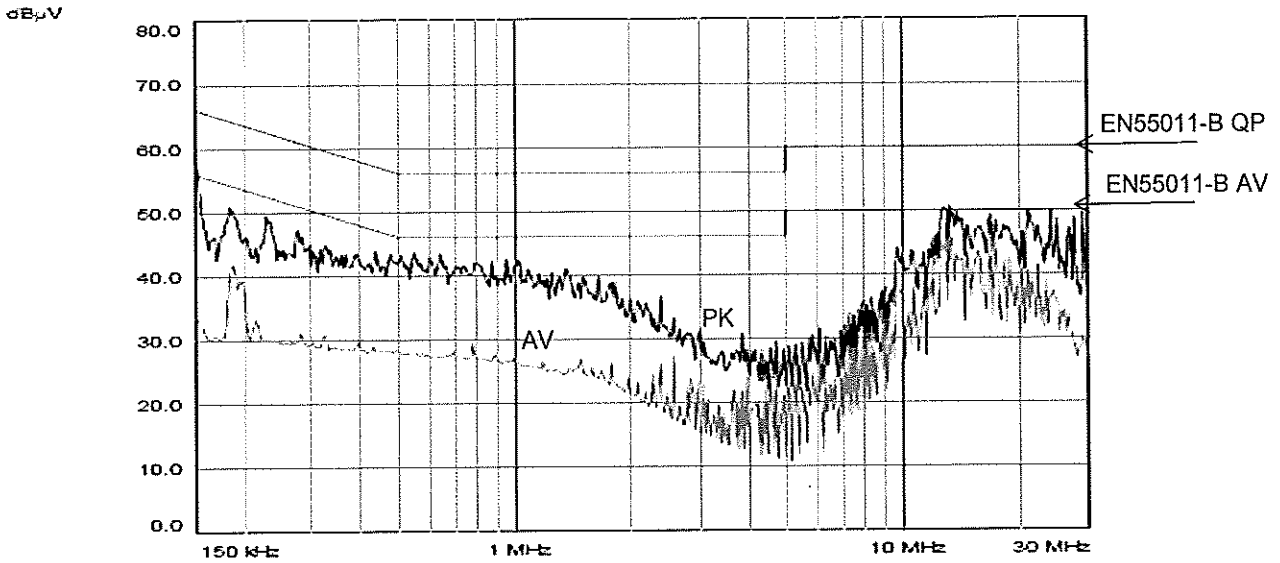
PHASE	FREQ MHz	RESULT		LIMIT		MARGIN	
		QP dBµV	AV dBµV	QP dBµV	AV dBµV	QP dBµV	AV dBµV
N	21.51	47.8	45.7	60.0	50.0	-12.2	-4.3
	25.19	45.2	40.5	60.0	50.0	-14.8	-9.6

Limit of EN55011-B, EN55022-B are the same

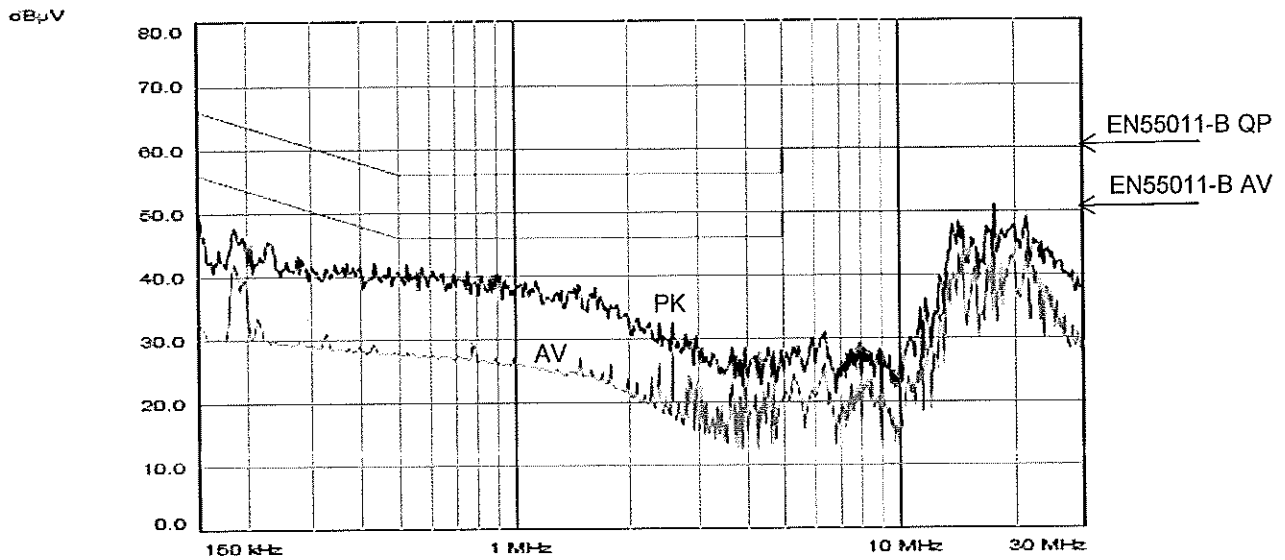
2.1 Conducted Emission

Conditions: Vin:115Vac
 Vout: 100%
 Iout: 100%
 Ta = 25°C

Z100-4



PHASE	FREQ MHz	RESULT		LIMIT		MARGIN	
		QP dBµV	AV dBµV	QP dBµV	AV dBµV	QP dBµV	AV dBµV
L	12.82	46.5	44.7	60.0	50.0	-13.5	-5.4
	13.01	44.7	39.4	60.0	50.0	-15.3	-10.7



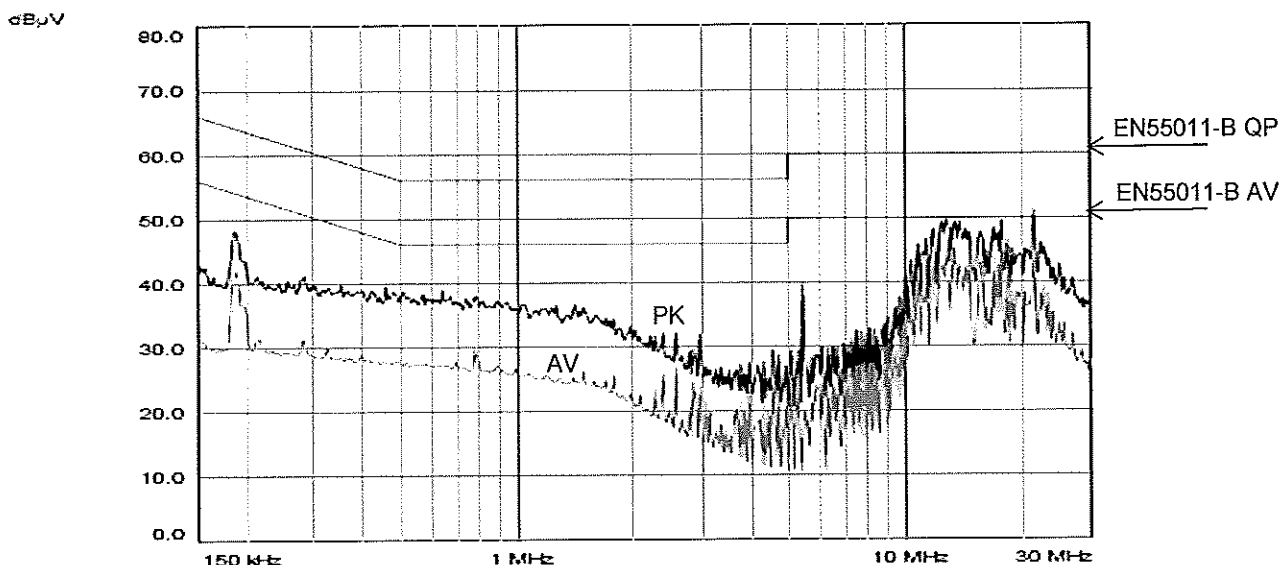
PHASE	FREQ MHz	RESULT		LIMIT		MARGIN	
		QP dBµV	AV dBµV	QP dBµV	AV dBµV	QP dBµV	AV dBµV
N	14.39	45.1	43.4	60.0	50.0	-14.9	-6.6
	21.29	46.1	42.0	60.0	50.0	-13.9	-8.03

Limit of EN55011-B, EN55022-B are the same

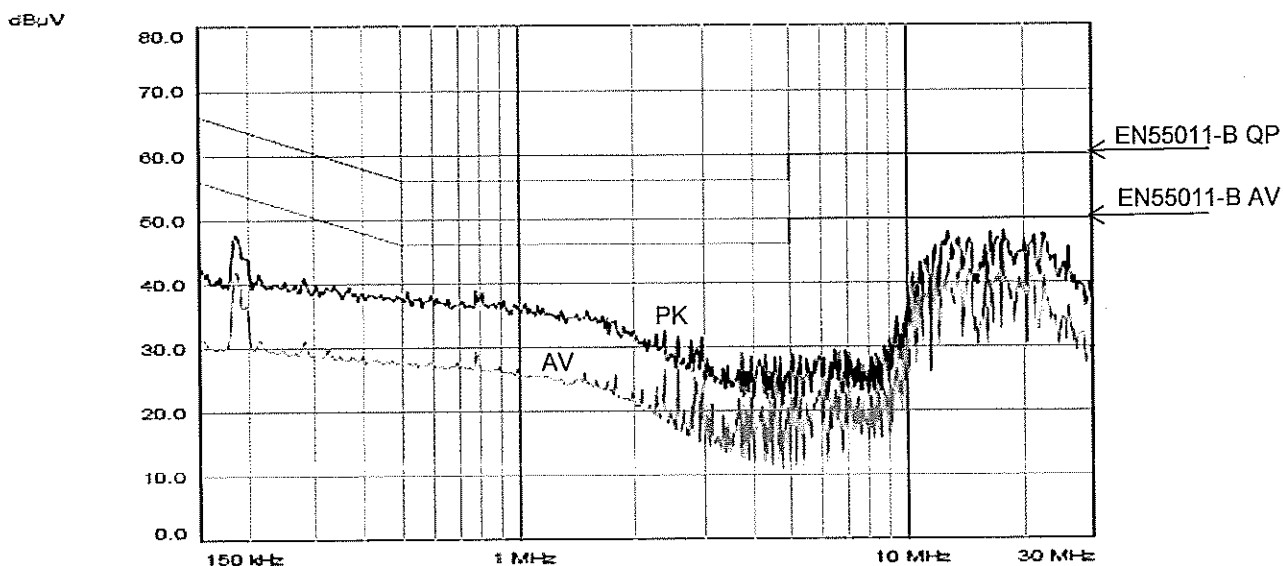
2.1 Conducted Emission

Conditions: Vin:230Vac
 Vout: 100%
 Iout: 100%
 Ta = 25°C

Z100-4



PHASE	FREQ MHz	RESULT		LIMIT		MARGIN	
		QP dBµV	AV dBµV	QP dBµV	AV dBµV	QP dBµV	AV dBµV
L	12.82	49.3	46.2	60.0	50.0	-10.7	-3.9
	17.89	45.1	41.7	60.0	50.0	-14.9	-8.3



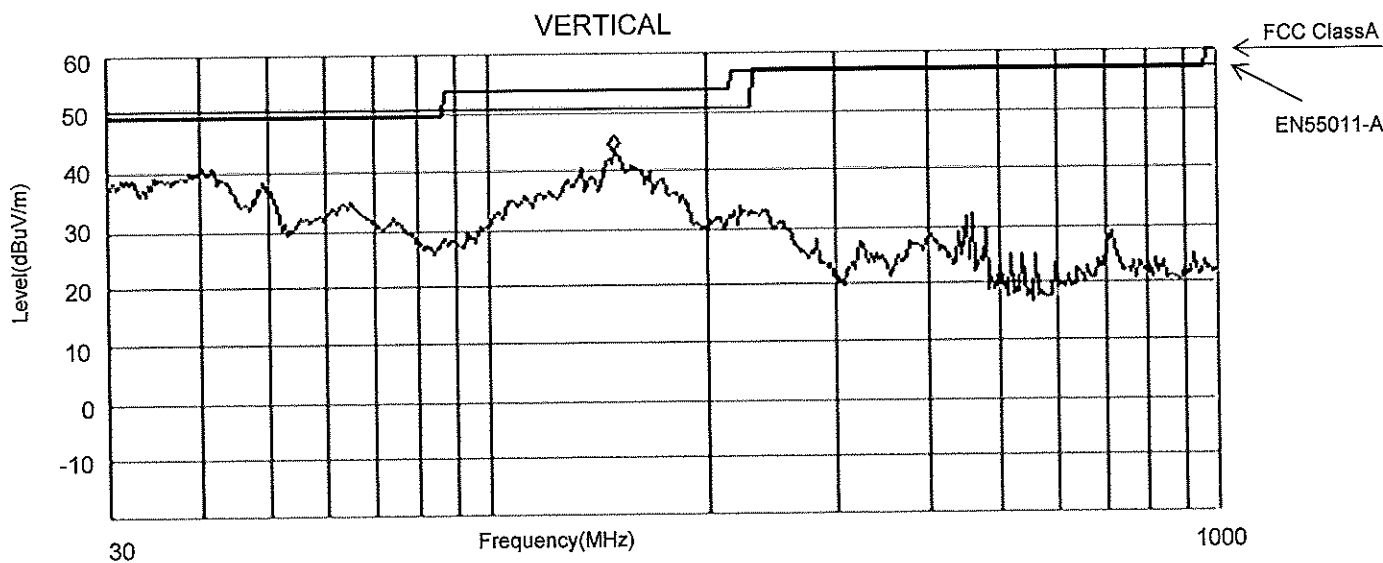
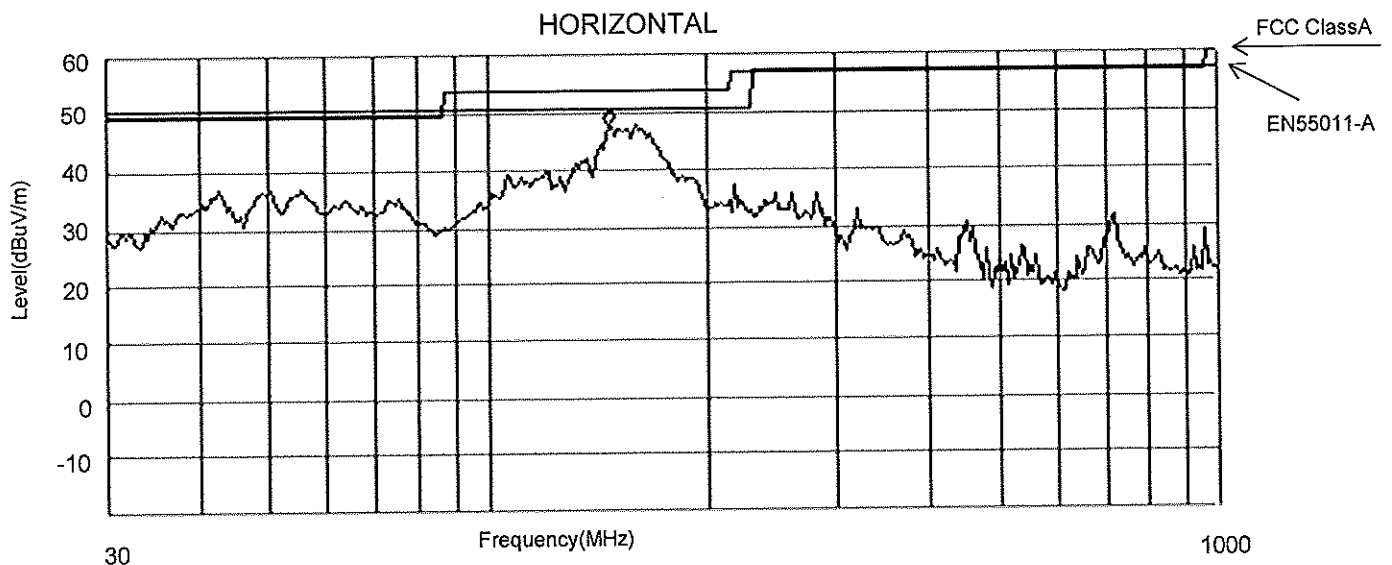
PHASE	FREQ MHz	RESULT		LIMIT		MARGIN	
		QP dBµV	AV dBµV	QP dBµV	AV dBµV	QP dBµV	AV dBµV
N	11.83	47.2	41.5	60.0	50.0	-12.8	-8.5
	22.68	48.0	39.9	60.0	50.0	-12.0	-10.1

Limit of EN55011-B, EN55022-B are the same

2.2 Radiated Emission

Z10-40

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



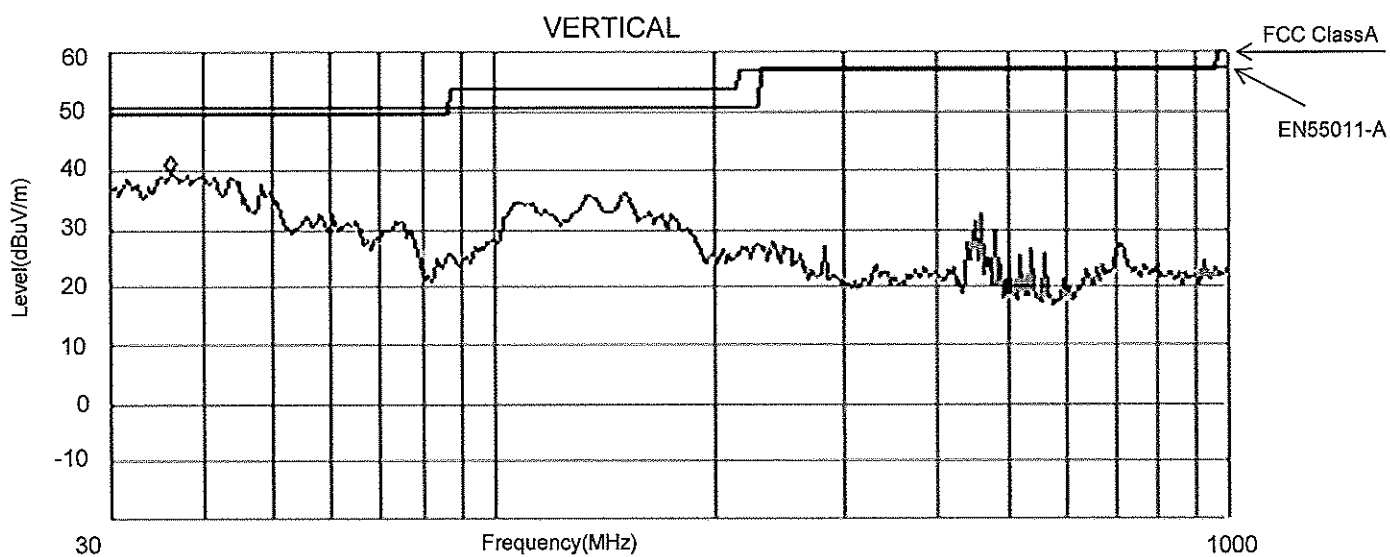
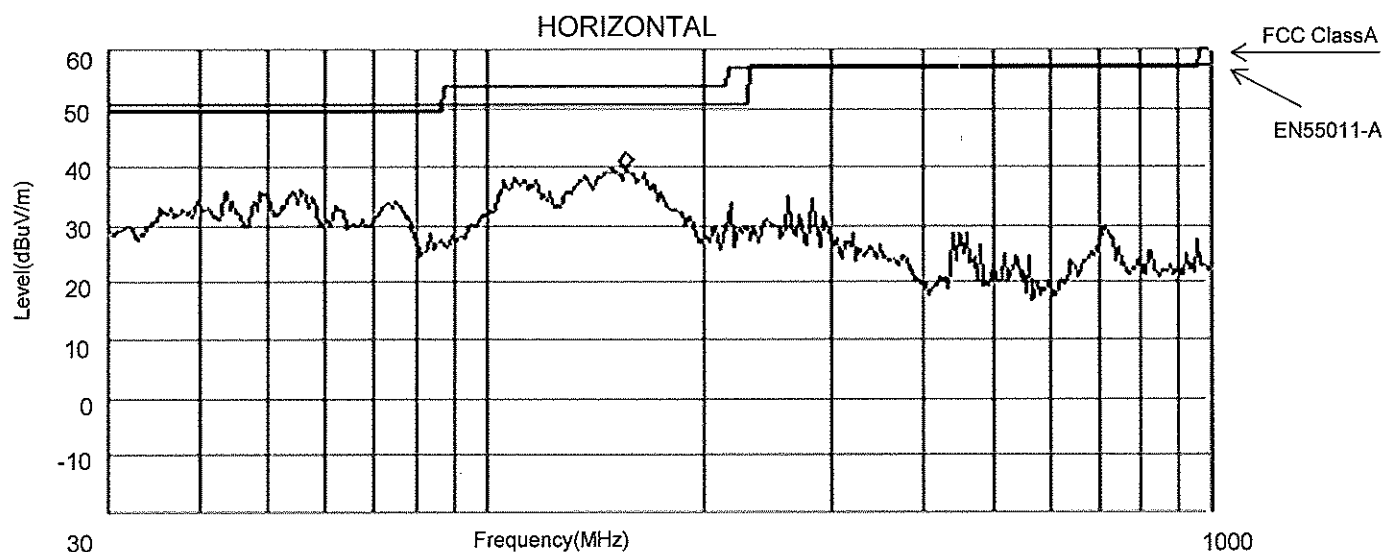
Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit (dBuV/m)	QP margin (dB)	Polariz.
149.0	43.10	38.95	54(FCC)	-15.05	Vertical
149.0	43.10	38.95	50.5(EN)	-11.55	Vertical
147.6	47.61	43.52	54(FCC)	-10.48	Horizontal
147.6	47.61	43.52	50.5(EN)	-6.98	Horizontal

Limit of EN55011-A, EN55022-A are the same

2.2 Radiated Emission

Z10-40

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



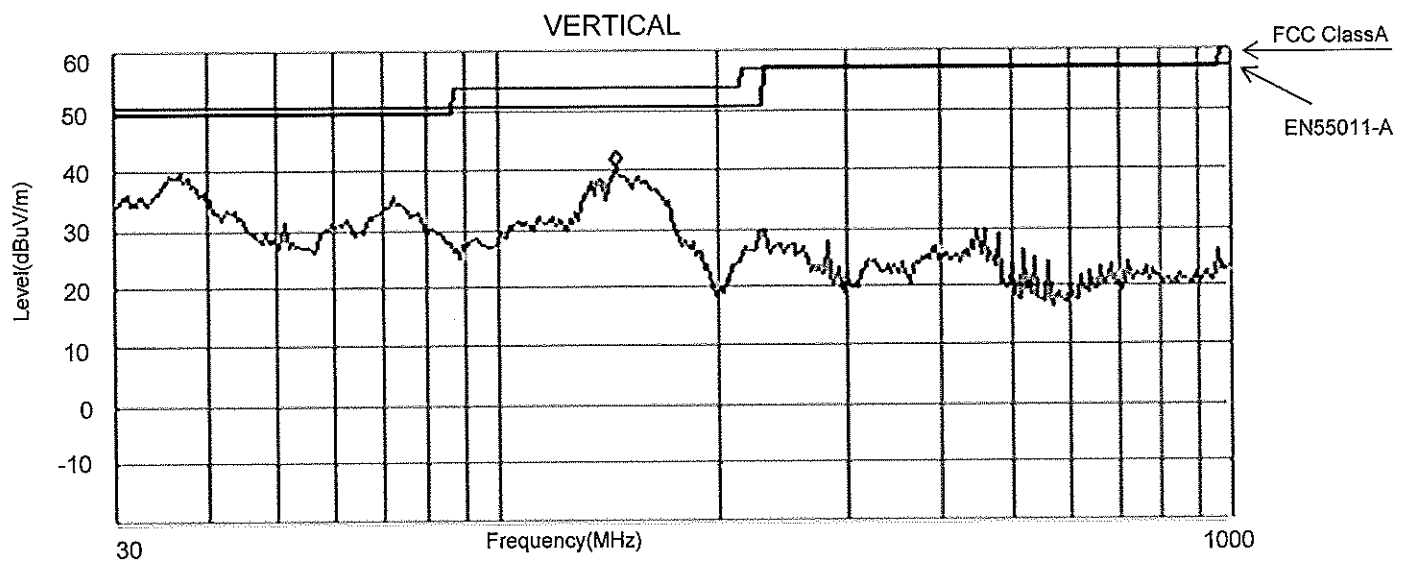
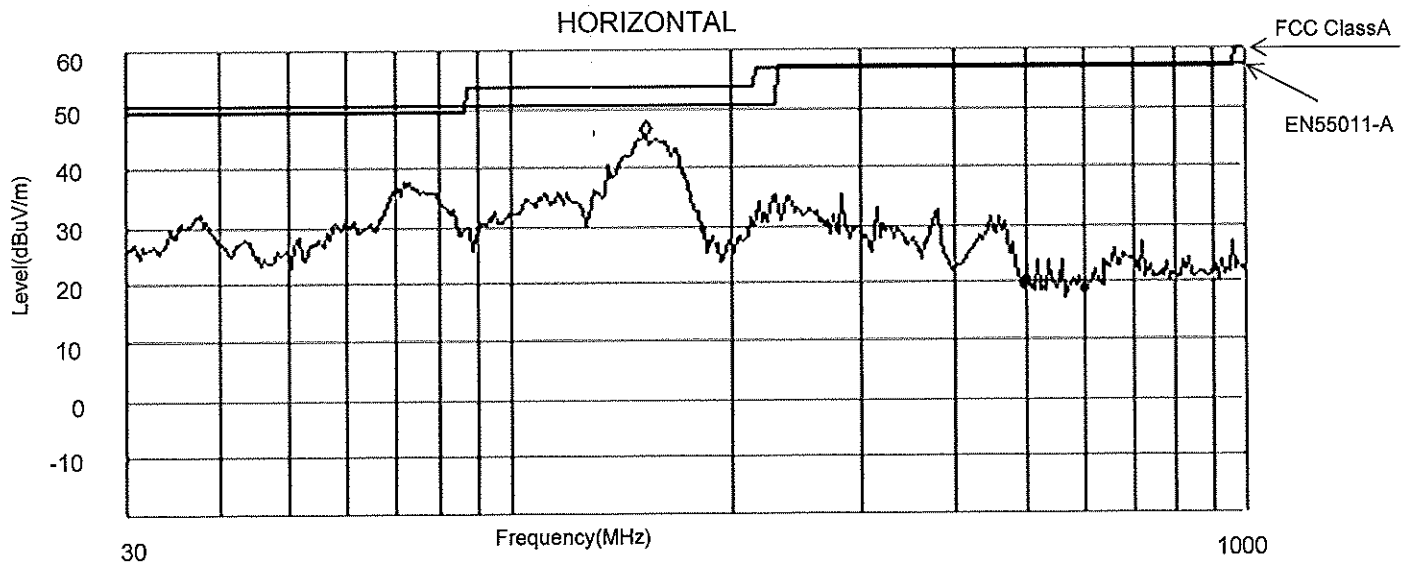
Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit (dBuV/m)	QP margin (dB)	Polariz.
36.7	39.56	35.43	49.5(FCC)	-14.07	Vertical
36.7	39.56	35.43	50.5(EN)	-15.07	Vertical
156.2	39.73	35.32	54(FCC)	-18.68	Horizontal
156.2	39.73	35.32	50.5(EN)	-15.18	Horizontal

Limit of EN55011-A, EN55022-A are the same

2.2 Radiated Emission

Z36-12

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



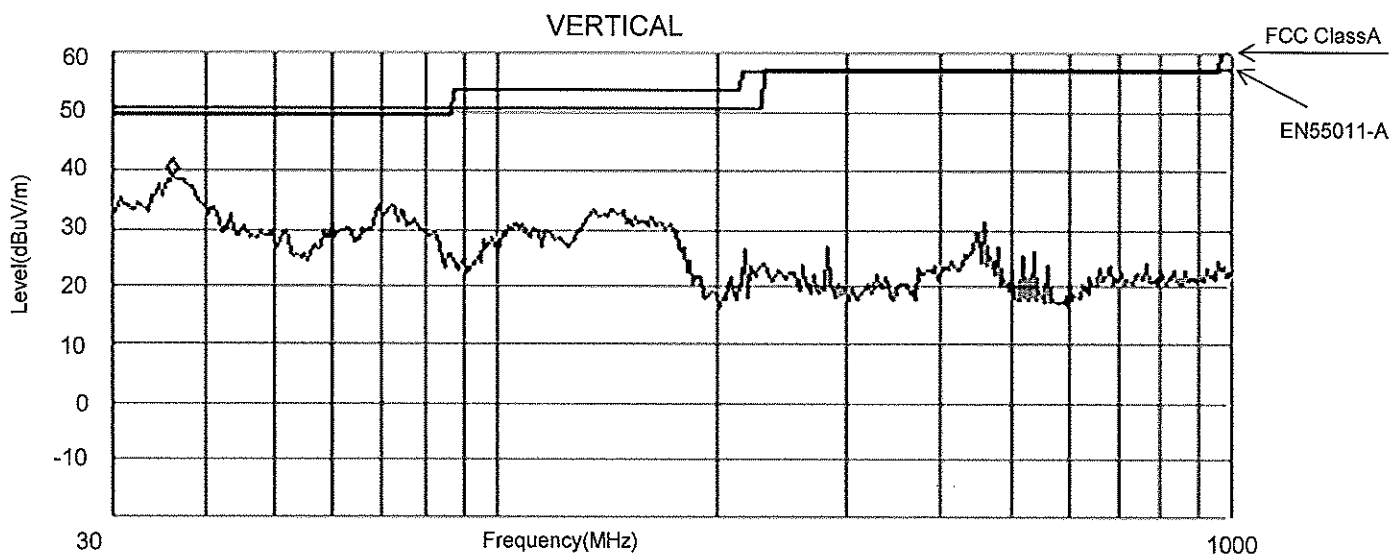
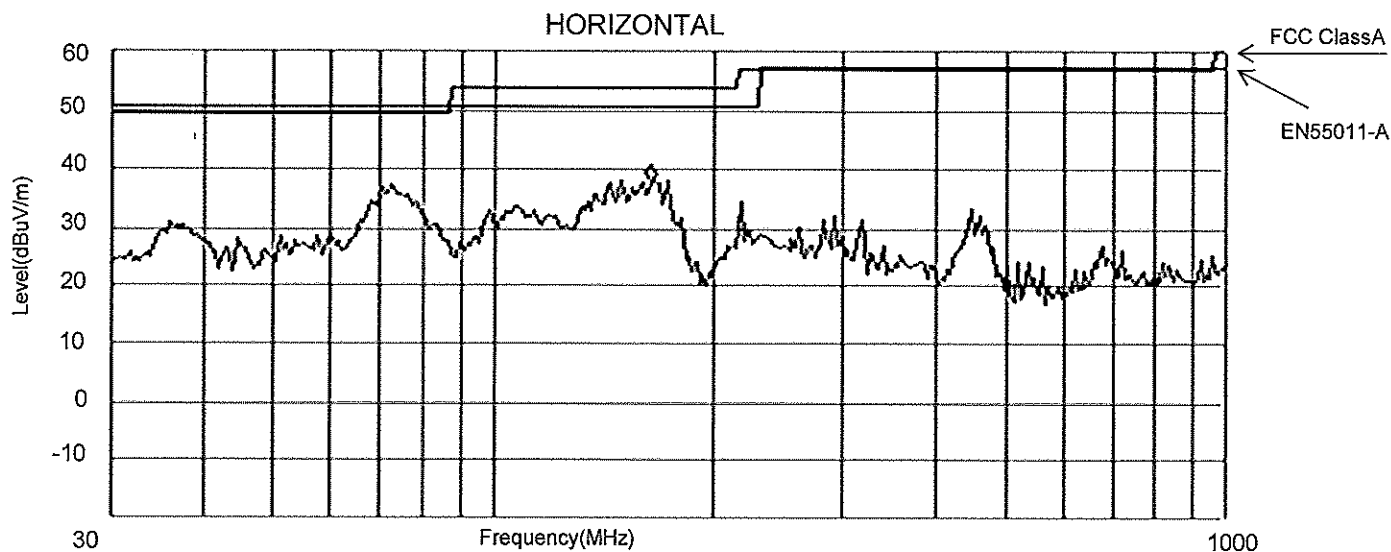
Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit (dBuV/m)	QP margin (dB)	Polariz.
146.2	40.34	36.07	54(FCC)	-17.93	Vertical
146.2	40.34	36.07	50.5(EN)	-14.43	Vertical
153.3	45.38	41.24	54(FCC)	-12.76	Horizontal
153.3	45.38	41.24	50.5(EN)	-9.26	Horizontal

Limit of EN55011-A, EN55022-A are the same

2.2 Radiated Emission

Z36-12

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



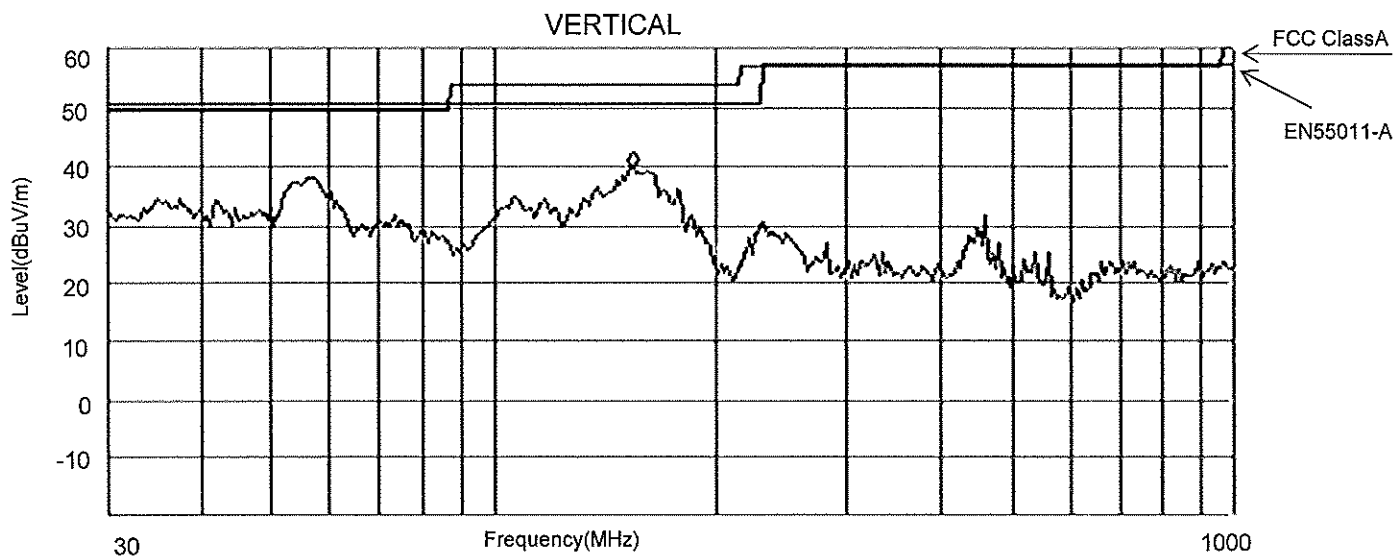
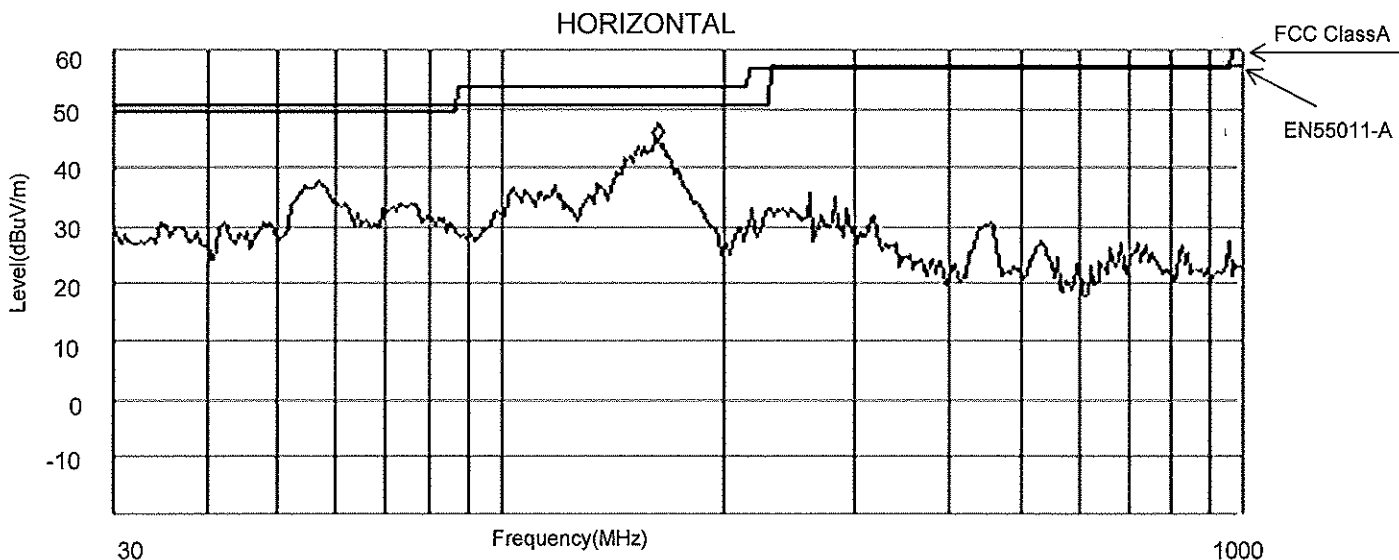
Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit (dBuV/m)	QP margin (dB)	Polariz.
36.7	38.93	34.88	49.5(FCC)	-14.62	Vertical
36.7	38.93	34.88	50.5(EN)	-15.62	Vertical
163.3	37.98	33.80	54(FCC)	-20.20	Horizontal
163.3	37.98	33.80	50.5(EN)	-16.70	Horizontal

Limit of EN55011-A, EN55022-A are the same

2.2 Radiated Emission

Z100-4

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



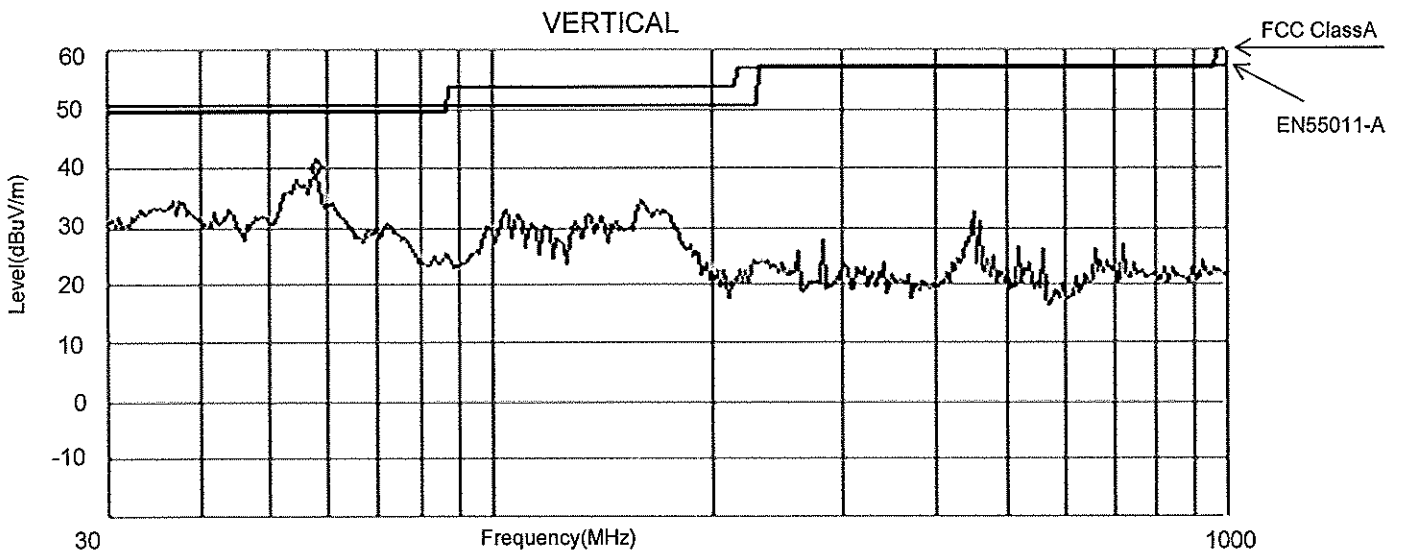
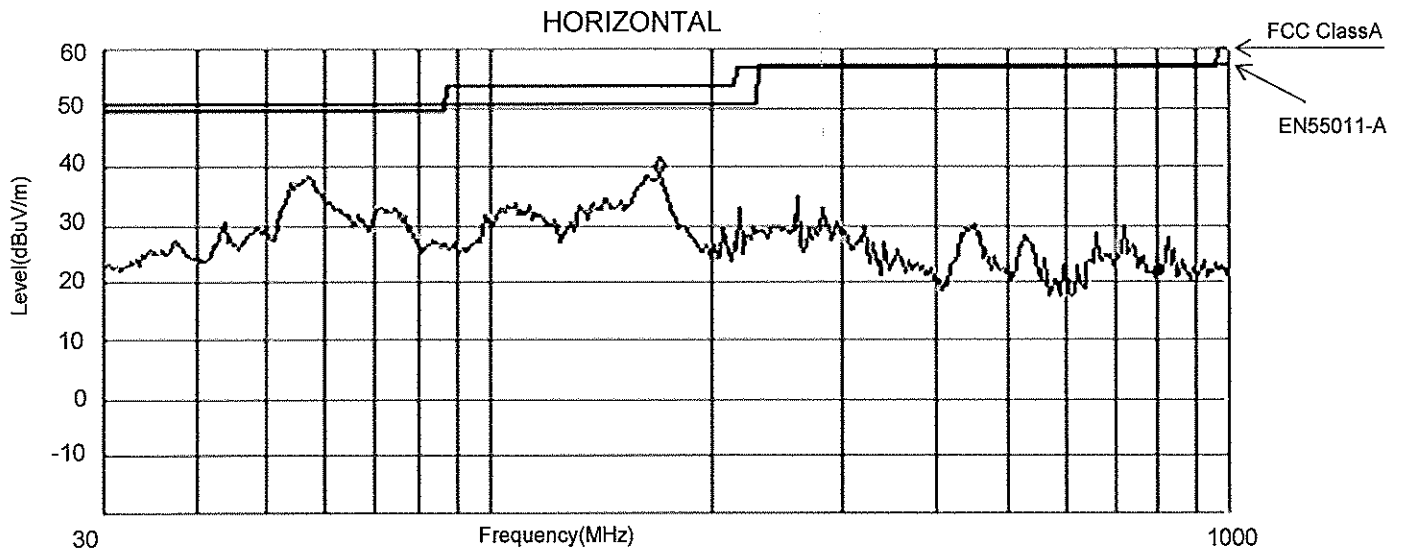
Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit (dBuV/m)	QP margin (dB)	Polariz.
154.7	39.52	35.40	54(FCC)	-18.60	Vertical
154.7	39.52	35.40	50.5(EN)	-15.10	Vertical
161.9	44.53	40.28	54(FCC)	-13.72	Horizontal
161.9	44.53	40.28	50.5(EN)	-10.22	Horizontal

Limit of EN55011-A, EN55022-A are the same

2.2 Radiated Emission

Z100-4

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



Freq (MHz)	Peak Amp (dBuV/m)	QP Amp (dBuV/m)	Limit (dBuV/m)	QP margin (dB)	Polariz.
58.2	38.44	34.18	49.5(FCC)	-15.32	Vertical
58.2	38.44	34.18	50.5(EN)	-16.32	Vertical
168.2	38.45	34.23	54(FCC)	-19.77	Horizontal
168.2	38.45	34.23	50.5(EN)	-16.27	Horizontal

Limit of EN55011-A, EN55022-A are the same