
図面名 : EMIデータ

得意先名 :

製品名 : RKE1.5KW-Series

TDK-Lambda

TDK 株式会社

テクニカルセンター

〒 272-8558

千葉県市川市東大和田2-15-7

承認	確認	立案
2006年11月10日 清水	2006年11月10日 下蔵	2006年11月10日 外岡

DWG.No.

ADSC-0040-1

Results of Conductive Emission

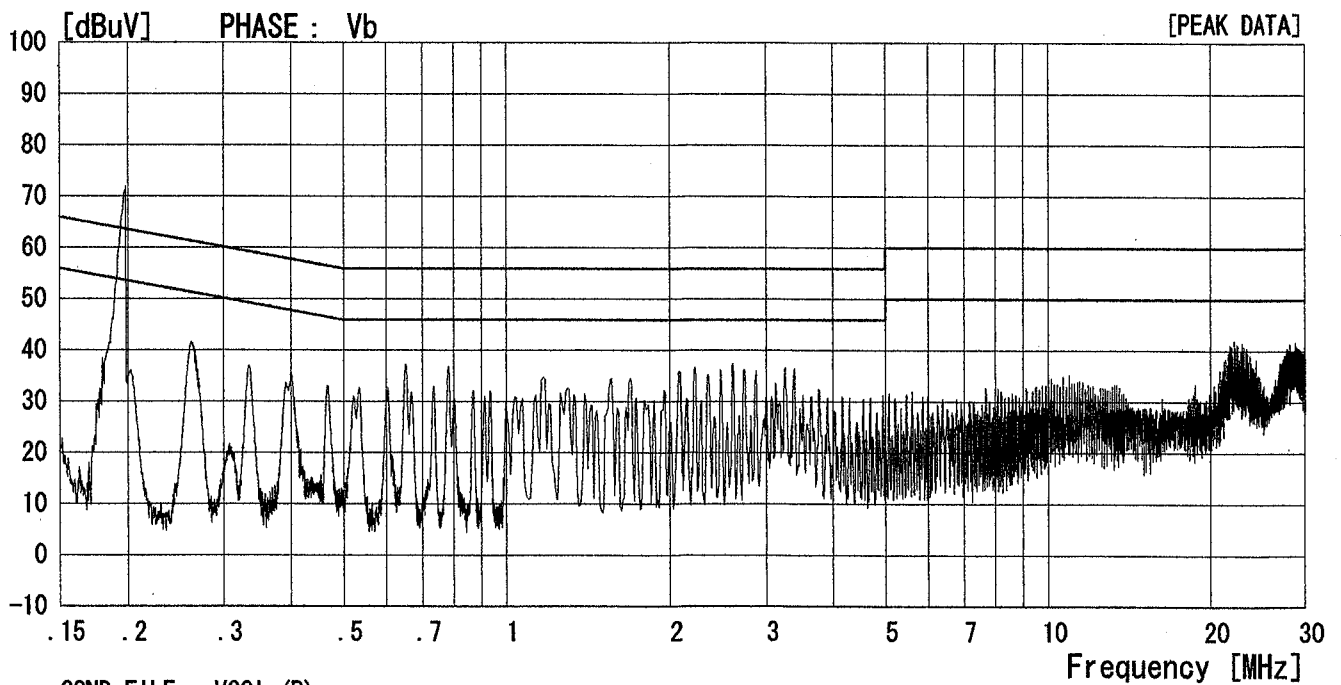
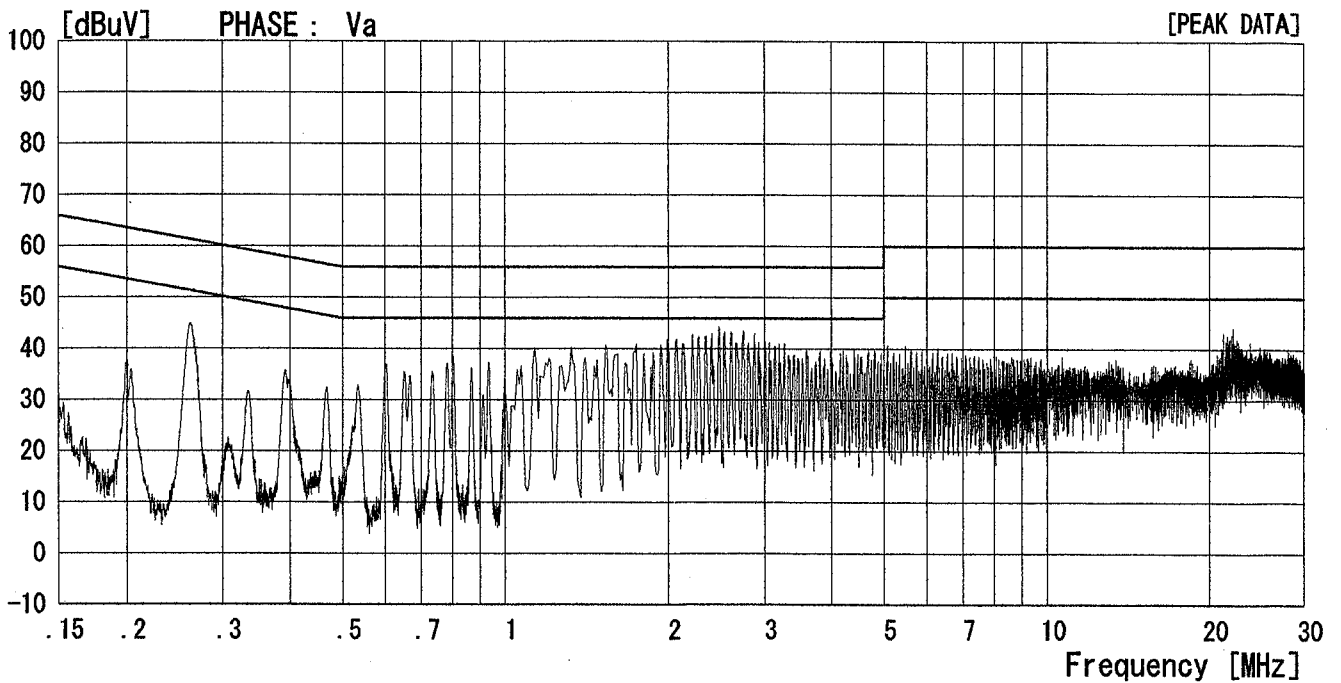
TDK EMC CENTER YAWATA 3m
測定日 : 01/20/03 17:38

Model Name : スイッチング電源
Model (EUT) No. : RKE48-32R
Serial No. : 24800011
Test Mode : 負荷 100%

Report No. : 014
Reguration : 20°C50%
Power Supply : AC100V/50Hz
Opereton : T.N

Memo :

LIMIT : VCCI-B(QP)/Japan
VCCI-B(AV)/Japan



COND FILE = VCCI (B)

Results of Conductive Emission

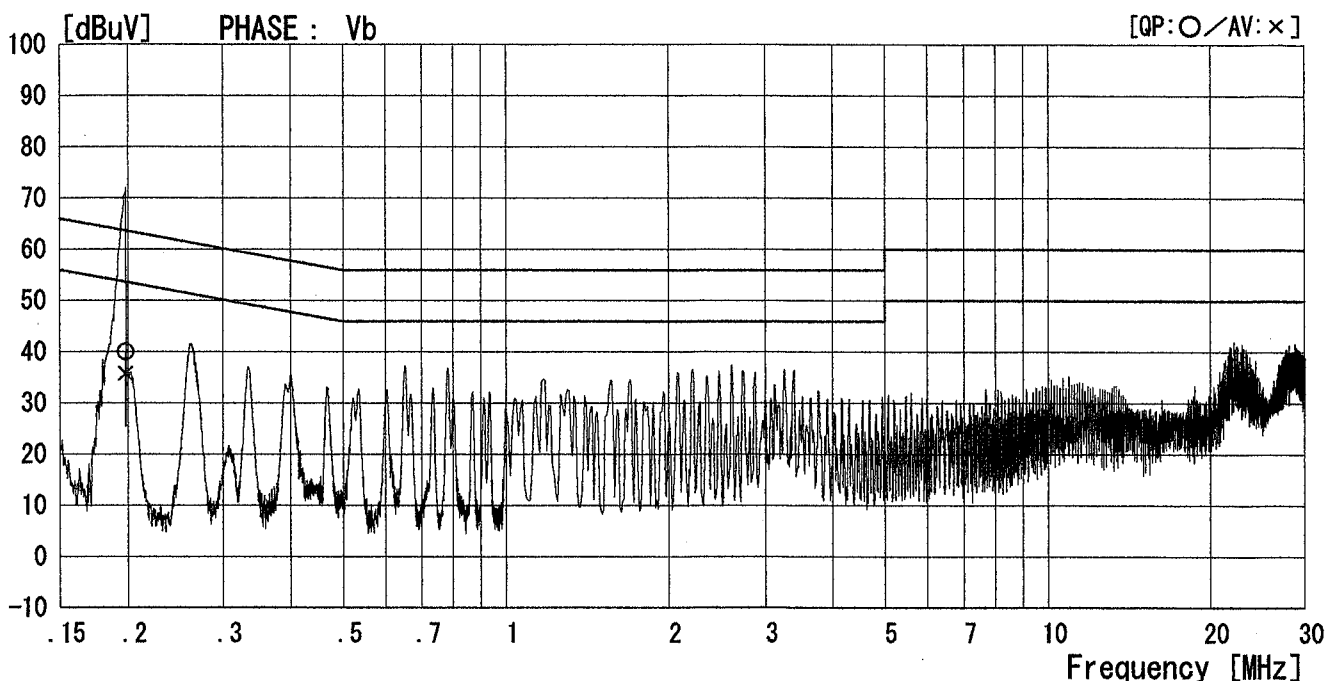
TDK EMC CENTER YAWATA 3m
測定日 : 01/20/03 17:45

Model Name : スイッチング電源
Model (EUT) No. : RKE48-32R
Serial No. : 24800011
Test Mode : 負荷 100%

Report No. : 014Q
Reguration : 20°C50%
Power Supply : AC100V/50Hz
Opereton : T.N

Memo :

LIMIT : VCCI-B(QP)/Japan
VCCI-B(AV)/Japan



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]			
1	0.1980	39.7	35.5	0.3	40.0	35.8	63.7	53.7	23.7	17.9	Vb

COND FILE = VCCI (B)

Results of Conductive EmissionTDK EMC CENTER YAWATA 3m
測定日 : 01/20/03 17:38

Model Name : スイッチング電源
 Model (EUT) No. : RKE48-32R
 Serial No. : 24800011
 Test Mode : 負荷 100%

Report No. : 014
 Regulation : 20°C50%
 Power Supply : AC100V/50Hz
 Opereton : T.N

Memo :

LIMIT : VCCI-B(QP)/Japan
 VCCI-B(AV)/Japan

NO	FREQ [MHz]	READING (PK) [dBuV]	C. FACTOR [dB]	RESULT [dBuV]	LIMIT [dBuV]	MARGIN [dBuV]	PHASE
1	0.20040	37.3	0.3	37.6	63.6	26.0	Va
2	0.26165	44.6	0.3	44.9	61.4	16.5	Va
3	2.46700	43.5	0.8	44.3	56.0	11.7	Va
4	22.52029	40.9	1.0	41.9	60.0	18.1	Va
5	0.19830	71.7	0.3	72.0	63.7	-8.3	Vb
6	0.26165	41.3	0.3	41.6	61.4	19.8	Vb
7	2.60200	36.7	0.7	37.4	56.0	18.6	Vb
8	22.12028	41.0	1.0	42.0	60.0	18.0	Vb
9	28.14042	40.1	1.3	41.4	60.0	18.6	Vb

COND FILE = VCCI (B)

Results of Conductive Emission

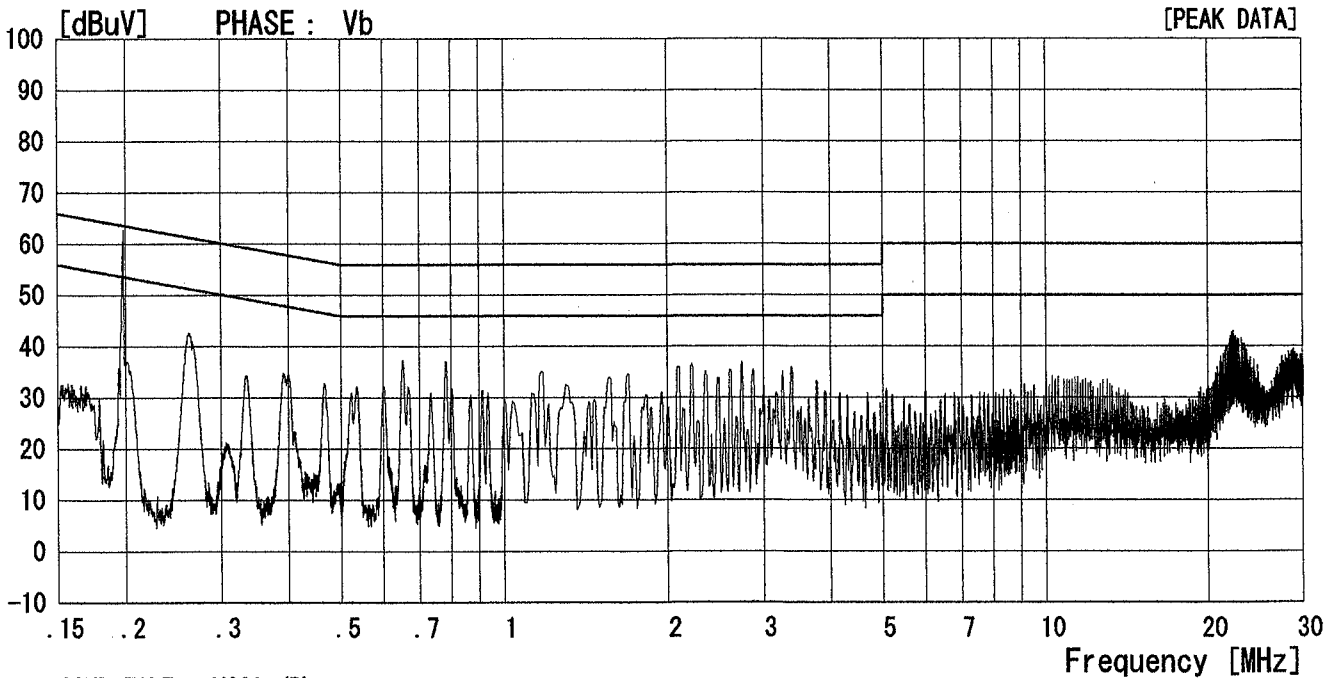
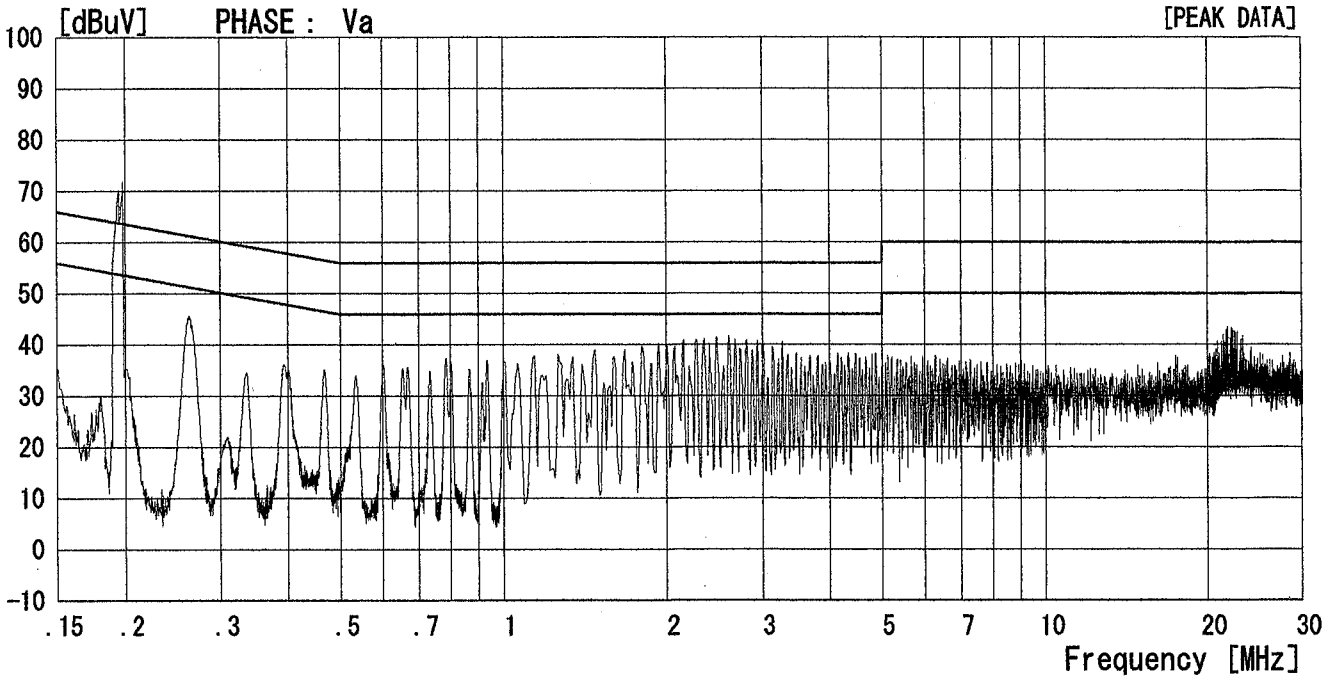
TDK EMC CENTER YAWATA 3m
測定日 : 01/20/03 17:24

Model Name : スイッチング電源
Model (EUT) No. : RKE48-32R
Serial No. : 24800011
Test Mode : 負荷 100%

Report No. : 013
Reguration : 20°C50%
Power Supply : AC120V/60Hz
Opereton : T.N

Memo :

LIMIT : FCC (QP) NEWPart15 SubpartB ClassB
FCC (AV) NEWPart15 SubpartB ClassB



COND FILE = VCCI (B)

Results of Conductive Emission

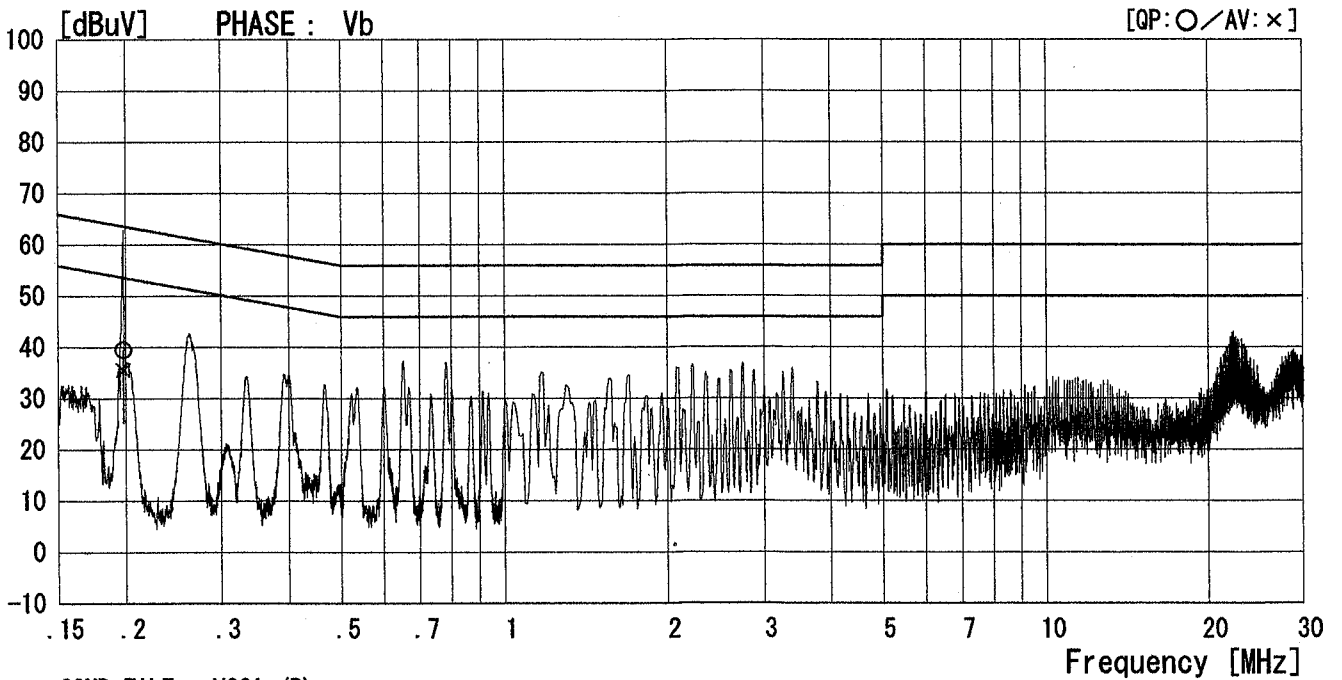
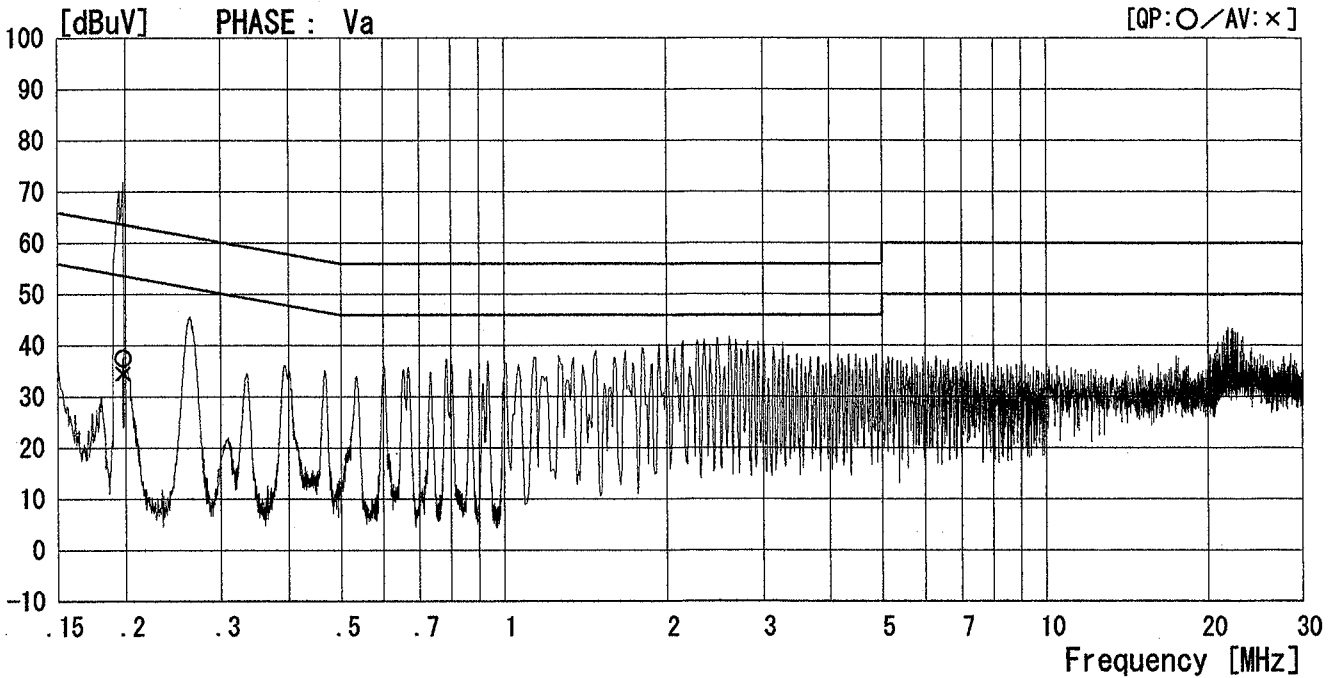
TDK EMC CENTER YAWATA 3m
測定日 : 01/20/03 17:24

Model Name : スイッチング電源
Model (EUT) No. : RKE48-32R
Serial No. : 24800011
Test Mode : 負荷 100%

Report No. : 013Q
Reguration : 20°C50%
Power Supply : AC120V/60Hz
Opereton : T.N

Memo :

LIMIT : FCC (QP) NEWPart15 SubpartB ClassB
FCC (AV) NEWPart15 SubpartB ClassB



COND FILE = VCCI (B)

Results of Conductive EmissionTDK EMC CENTER YAWATA 3m
測定日 : 01/20/03 17:24

Model Name : スイッチング電源
 Model (EUT) No. : RKE48-32R
 Serial No. : 24800011
 Test Mode : 負荷 100%

Report No. : 013
 Regulation : 20°C50%
 Power Supply : AC120V/60Hz
 Opereton : T.N

Memo :

LIMIT : FCC (QP) NEWPart15 SubpartB ClassB
 FCC (AV) NEWPart15 SubpartB ClassB

NO	FREQ [MHz]	READING (PK) [dBuV]	C. FACTOR [dB]	RESULT [dBuV]	LIMIT [dBuV]	MARGIN [dBuV]	PHASE
1	0.19800	71.6	0.3	71.9	63.7	-8.2	Va
2	0.26305	45.3	0.3	45.6	61.3	15.7	Va
3	2.60200	41.0	0.7	41.7	56.0	14.3	Va
4	21.78027	42.5	1.0	43.5	60.0	16.5	Va
5	0.19800	62.5	0.3	62.8	63.7	0.9	Vb
6	0.26165	42.4	0.3	42.7	61.4	18.7	Vb
7	2.73700	36.2	0.7	36.9	56.0	19.1	Vb
8	22.28028	42.0	1.0	43.0	60.0	17.0	Vb

COND FILE = VCCI (B)

Results of Conductive Emission

TDK EMC CENTER YAWATA 3m
測定日 : 01/20/03 17:24

Model Name : スイッチング電源
 Model (EUT) No. : RKE48-32R
 Serial No. : 24800011
 Test Mode : 負荷 100%

Report No. : 0130
 Regulation : 20°C50%
 Power Supply : AC120V/60Hz
 Opereton : T.N

Memo :

LIMIT : FCC (QP) NEUPart15 SubpartB ClassB
 FCC (AV) NEUPart15 SubpartB ClassB

NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.1980	37.2	34.2	0.3	37.5	34.5	63.7	53.7	26.2	19.2	Va
2	0.1980	39.2	35.3	0.3	39.5	35.6	63.7	53.7	24.2	18.1	Vb

COND FILE = VCCI (B)

Results of Conductive Emission

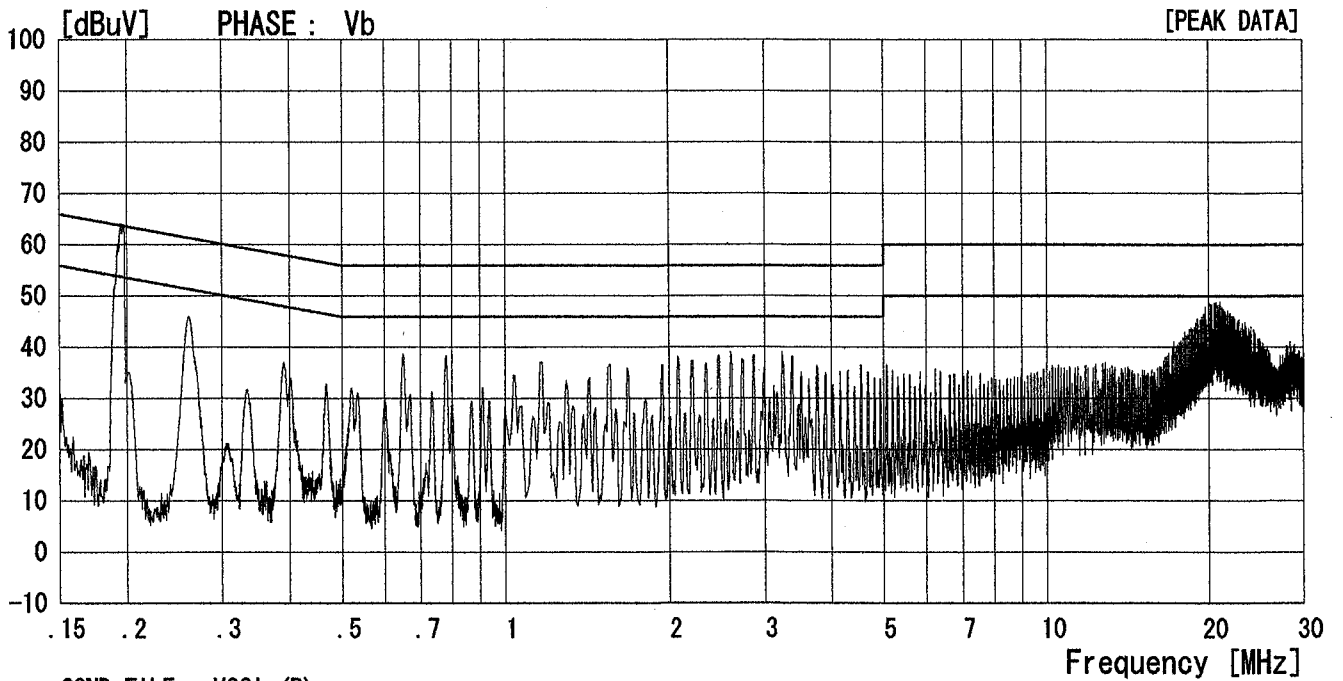
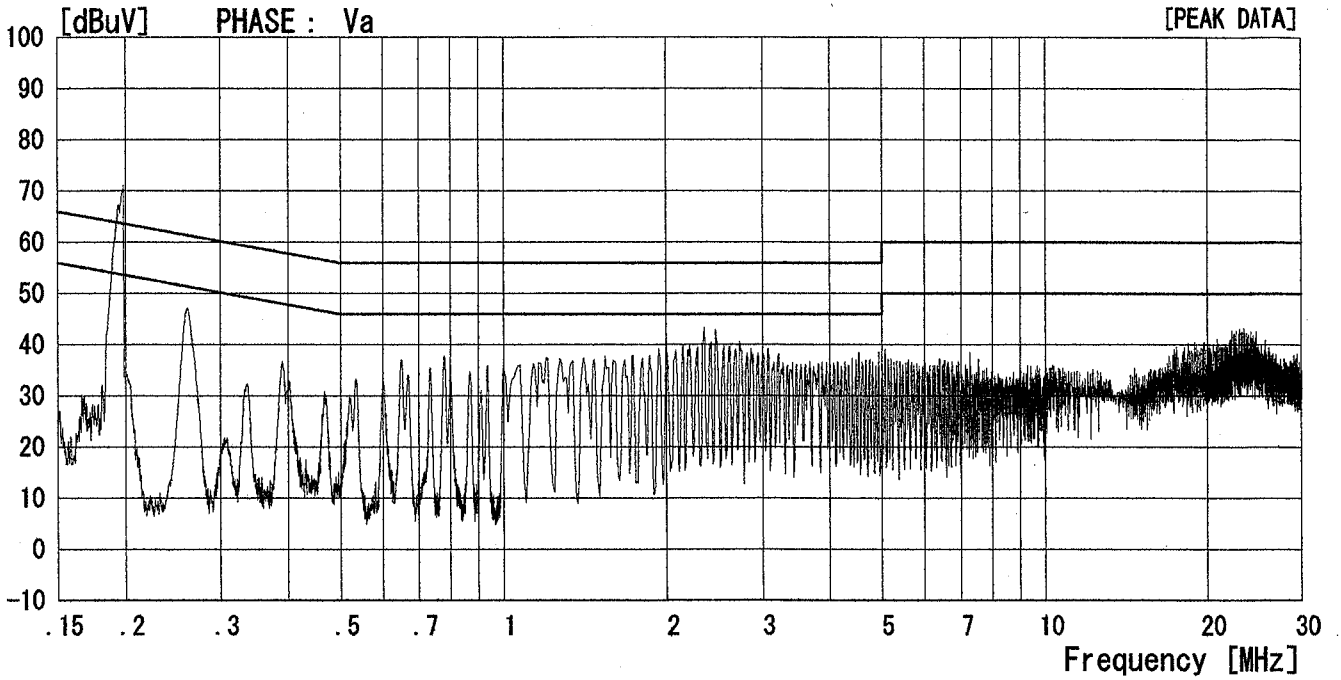
TDK EMC CENTER YAWATA 3m
測定日 : 01/20/03 16:51

Model Name : スイッチング電源
Model (EUT) No. : RKE48-32R
Serial No. : 24800011
Test Mode : 負荷 100%

Report No. : 012
Reguration : 20°C50%
Power Supply : AC230V/50Hz
Opereton : T. N

Memo :

LIMIT : EN55022 Class B(QP)/EU
EN 55022-B (AV)



COND FILE = VCCI (B)

Results of Conductive Emission

TDK EMC CENTER YAWATA 3m
測定日 : 01/20/03 16:51

Model Name : スイッチング電源
 Model (EUT) No. : RKE48-32R
 Serial No. : 24800011
 Test Mode : 負荷 100%

Report No. : 012
 Regulation : 20°C50%
 Power Supply : AC230V/50Hz
 Opereton : T.N

Memo :

LIMIT : EN55022 Class B(QP)/EU
 EN 55022-B (AV)

NO	FREQ [MHz]	READING (PK) [dBuV]	C. FACTOR [dB]	RESULT [dBuV]	LIMIT [dBuV]	MARGIN [dBuV]	PHASE
1	0.19830	70.9	0.3	71.2	63.7	-7.5	Va
2	0.26060	46.8	0.3	47.1	61.4	14.3	Va
3	2.34100	42.5	0.8	43.3	56.0	12.7	Va
4	23.36031	42.1	1.1	43.2	60.0	16.8	Va
5	0.19830	70.9	0.3	71.2	63.7	-7.5	Vb
6	0.26060	46.8	0.3	47.1	61.4	14.3	Vb
7	2.34100	42.5	0.8	43.3	56.0	12.7	Vb
8	20.66024	47.8	1.0	48.8	60.0	11.2	Vb

COND FILE = VCCI (B)

Results of Conductive Emission

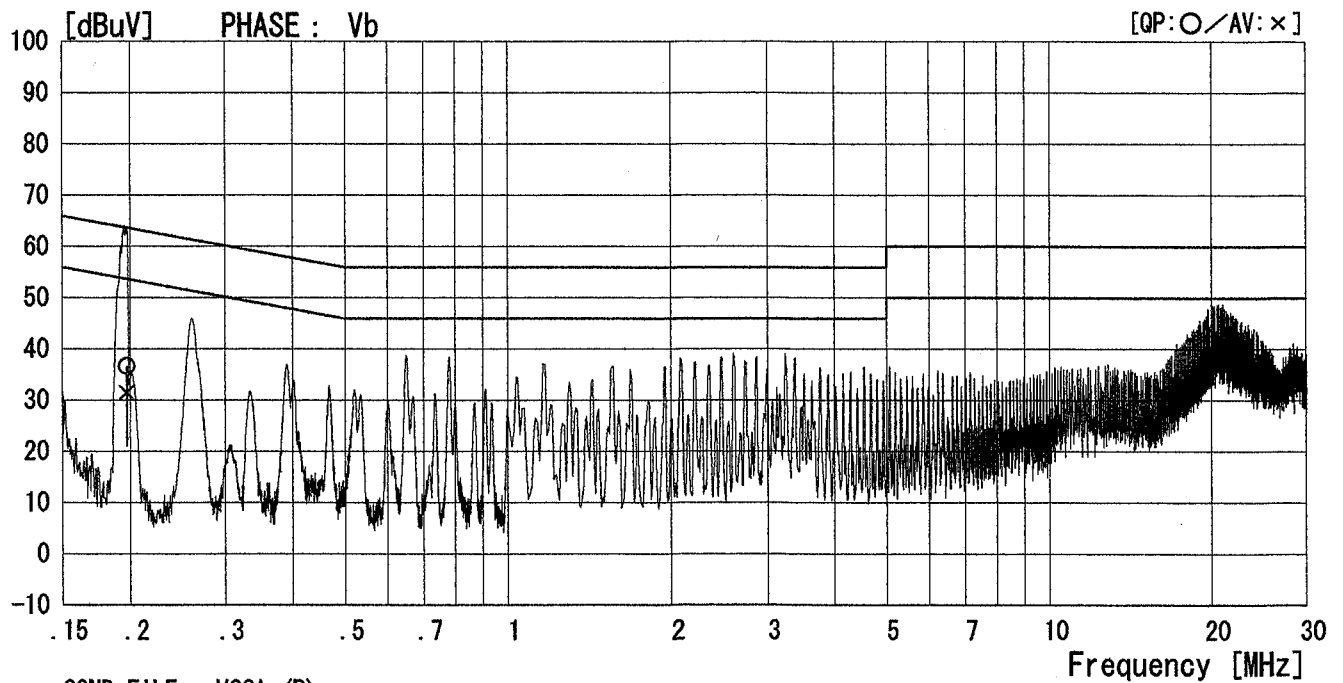
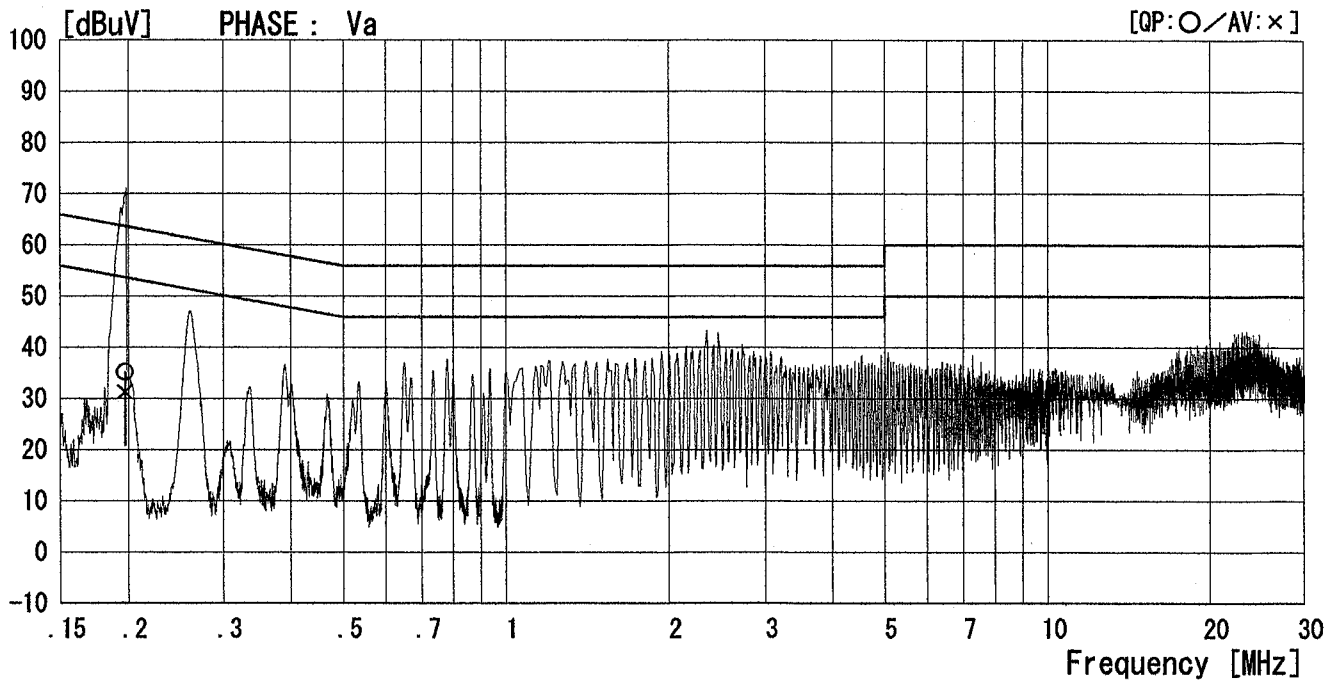
TDK EMC CENTER YAWATA 3m
測定日 : 01/20/03 16:58

Model Name : スイッチング電源
Model (EUT) No. : RKE48-32R
Serial No. : 24800011
Test Mode : 負荷 100%

Report No. : 0120
Reguration : 20°C50%
Power Supply : AC230V/50Hz
Opereton : T.N

Memo :

LIMIT : EN55022 Class B(QP)/EU
EN 55022-B (AV)



COND FILE = VCCI (B)

Results of Conductive Emission

TDK EMC CENTER YAWATA 3m
測定日 : 01/20/03 16:58

Model Name : スイッチング電源
 Model (EUT) No. : RKE48-32R
 Serial No. : 24800011
 Test Mode : 負荷 100%

Report No. : 0120
 Regulation : 20°C50%
 Power Supply : AC230V/50Hz
 Opereton : T.N

Memo :

LIMIT : EN55022 Class B(QP)/EU
 EN 55022-B (AV)

NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.1970	34.9	31.0	0.3	35.2	31.3	63.7	53.7	28.5	22.4	Va
2	0.1970	36.4	31.2	0.3	36.7	31.5	63.7	53.7	27.0	22.2	Vb

COND FILE = VCCI (B)

Results of Radiated Emission

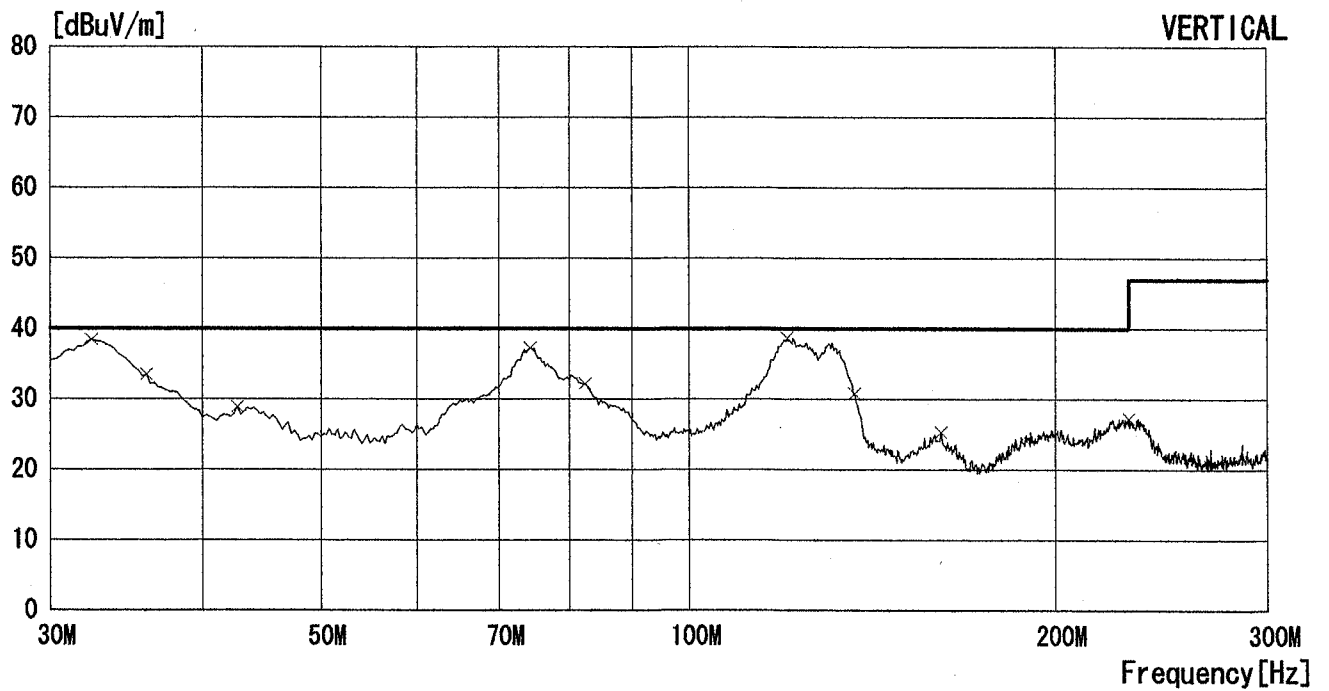
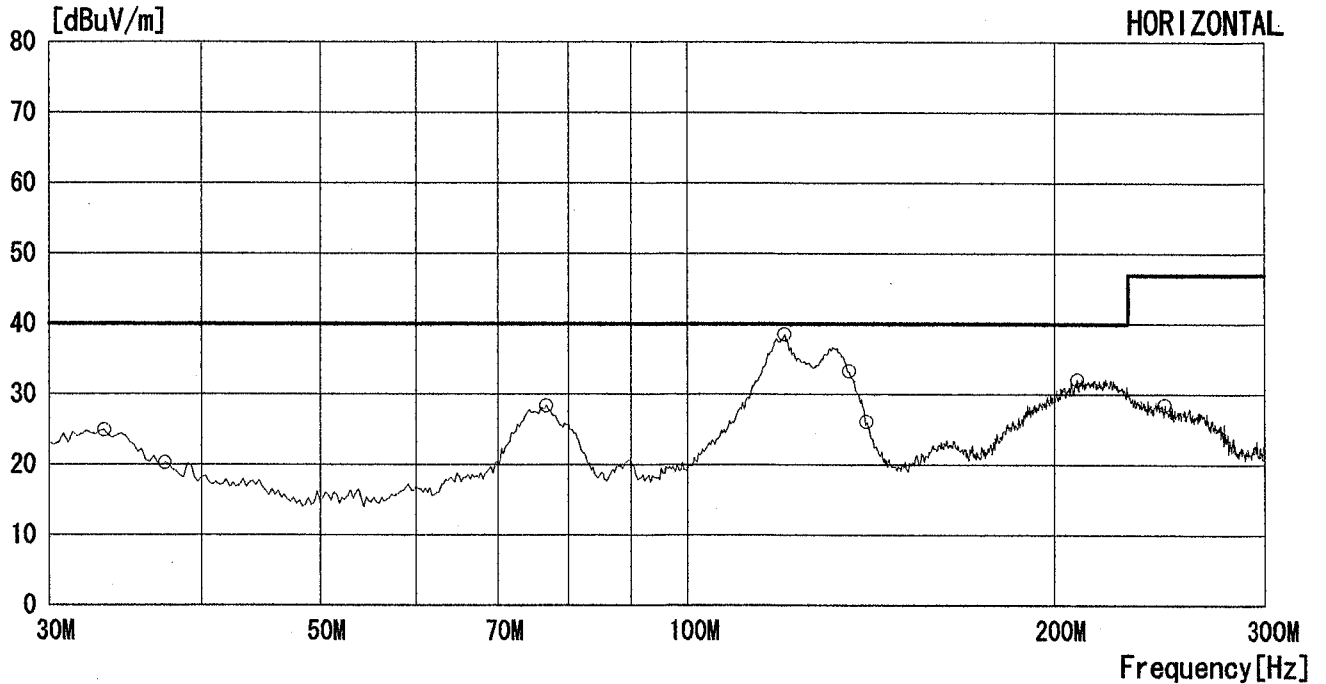
TDK EMC CENTER YAWATA 3m
測定日 : 2003/01/20 11:08:29

Model Name : スイッチング電源
Model No. : RKE48-32R
Serial No. : 24800011
Test Mode : 負荷 100%

Report No. : 002
Reguration : 18 °C 53 %
Power Supply : A C 100V / 50 H z
Operator : T.N

Memo :

LIMIT : VCCI Class B(3m)/Japan



COND FILE = H/V (B)100-400(100cm step) (L)100-200(50cm step) T/T 中速

Results of Radiated Emission

TDK EMC CENTER YAWATA 3m
測定日 : 2003/01/20 11:08:29

Model Name : スイッチング電源
 Model No. : RKE48-32R
 Serial No. : 24800011
 Test Mode : 負荷 100%

Report No. : 002
 Regulation : 18 °C53 %
 Power Supply : A C 100V / 50 H z
 Operator : T.N

Memo :

LIMIT : VCCI Class B(3m)/Japan

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
Horizontal										
1	33.240	30.7	17.7	3.5	27.0	24.9	40.0	15.1	200(H)	163
2	37.290	27.6	16.1	3.6	27.0	20.3	40.0	19.7	200(H)	186
3	76.710	45.1	6.2	4.1	27.0	28.4	40.0	11.6	300(H)	337
4	120.179	47.8	13.2	4.4	26.9	38.5	40.0	1.5	200(H)	166
5	135.839	41.3	14.4	4.4	26.8	33.3	40.0	6.7	200(H)	160
6	140.429	33.7	14.7	4.5	26.8	26.1	40.0	13.9	200(H)	287
7	209.011	36.4	17.1	5.2	26.6	32.1	40.0	7.9	100(H)	300
8	246.811	32.1	17.7	5.2	26.5	28.5	47.0	18.5	100(H)	32
Vertical										
1	32.430	43.9	18.0	3.5	27.0	38.4	40.0	1.6	100(V)	1
2	35.940	40.3	16.6	3.6	27.0	33.5	40.0	6.5	100(V)	110
3	42.690	37.9	14.1	3.9	27.0	28.9	40.0	11.1	100(V)	54
4	74.280	54.0	6.2	4.1	27.0	37.3	40.0	2.7	100(V)	241
5	82.380	48.5	6.5	4.2	27.0	32.2	40.0	7.8	100(V)	225
6	120.449	48.0	13.2	4.4	26.9	38.7	40.0	1.3	100(V)	258
7	136.919	38.7	14.5	4.4	26.8	30.8	40.0	9.2	100(V)	232
8	161.220	32.0	15.4	4.7	26.8	25.3	40.0	14.7	100(V)	271
9	230.071	31.2	17.4	5.2	26.5	27.3	47.0	19.7	100(V)	258

COND FILE = H/V (B)100-400(100cm step) (L)100-200(50cm step) T/T 中速

Results of Radiated Emission

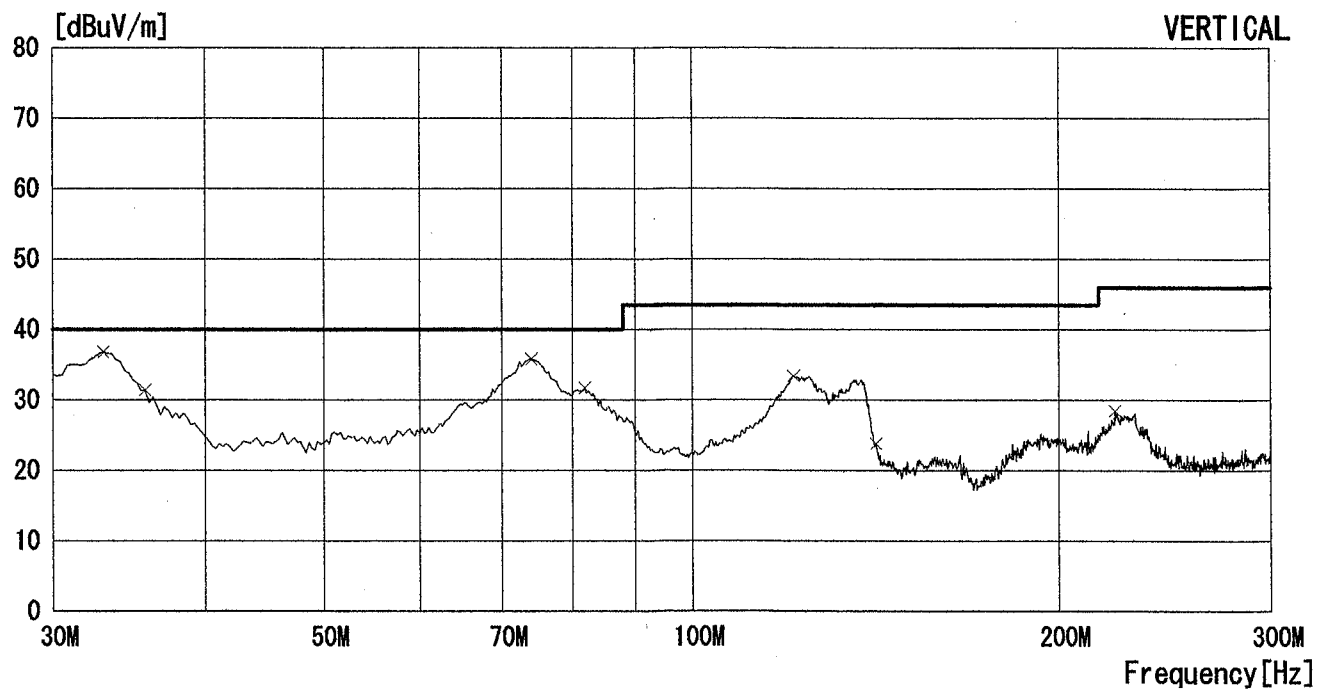
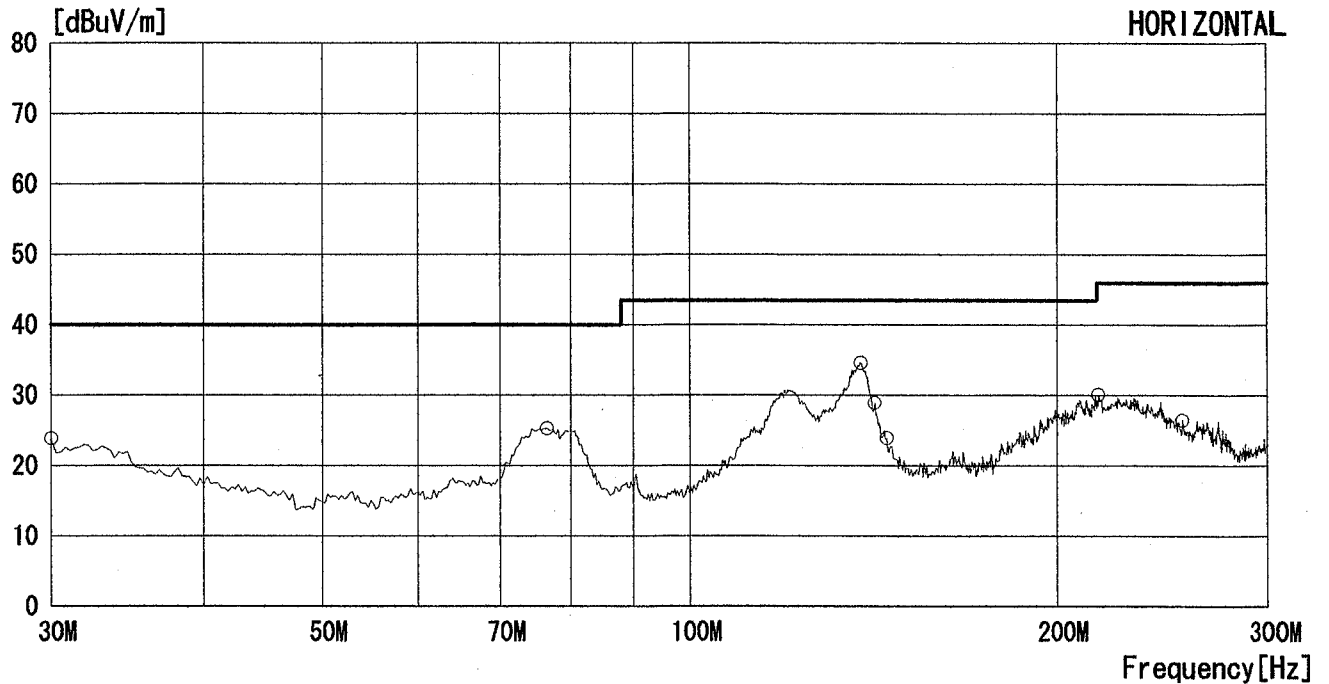
TDK EMC CENTER YAWATA 3m
測定日 : 2003/01/20 11:25:14

Model Name : スイッチング電源
Model No. : RKE48-32R
Serial No. : 24800011
Test Mode : 負荷 100%

Report No. : 003
Reguration : 18 °C53 %
Power Supply : A C 120V / 60 H z
Operator : T.N

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)



COND FILE = H/V (B)100-400(100cm step) (L)100-200(50cm step) T/T 中速

Results of Radiated EmissionTDK EMC CENTER YAWATA 3m
測定日 : 2003/01/20 11:25:14

Model Name : スイッチング電源
 Model No. : RKE48-32R
 Serial No. : 24800011
 Test Mode : 負荷 100%

Report No. : 003
 Regulation : 18 °C53 %
 Power Supply : A C 120V / 60 H z
 Operator : T. N

Memo :

LIMIT : FCC Part15 Subpart.B Class B (3m)

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
Horizontal										
1	30.000	28.3	19.0	3.5	27.0	23.8	40.0	16.2	300(H)	127
2	76.440	42.0	6.2	4.1	27.0	25.3	40.0	14.7	300(H)	313
3	138.269	42.3	14.6	4.5	26.8	34.6	43.5	8.9	200(H)	285
4	142.049	36.5	14.7	4.5	26.8	28.9	43.5	14.6	200(H)	298
5	145.290	31.6	14.6	4.5	26.8	23.9	43.5	19.6	200(H)	288
6	216.571	34.3	17.2	5.2	26.6	30.1	46.0	15.9	100(H)	317
7	254.101	29.8	18.0	5.2	26.5	26.5	46.0	19.5	100(H)	3
Vertical										
1	32.970	42.5	17.8	3.5	27.0	36.8	40.0	3.2	100(V)	55
2	35.670	38.1	16.7	3.6	27.0	31.4	40.0	8.6	100(V)	16
3	74.010	52.5	6.2	4.1	27.0	35.8	40.0	4.2	100(V)	232
4	81.840	48.1	6.4	4.2	27.0	31.7	40.0	8.3	100(V)	202
5	121.259	42.6	13.3	4.4	26.9	33.4	43.5	10.1	100(V)	205
6	141.779	31.4	14.7	4.5	26.8	23.8	43.5	19.7	100(V)	235
7	222.781	32.6	17.3	5.2	26.6	28.5	46.0	17.5	100(V)	107

COND FILE = H/V (B)100-400(100cm step) (L)100-200(50cm step) T/T 中速

Results of Radiated Emission

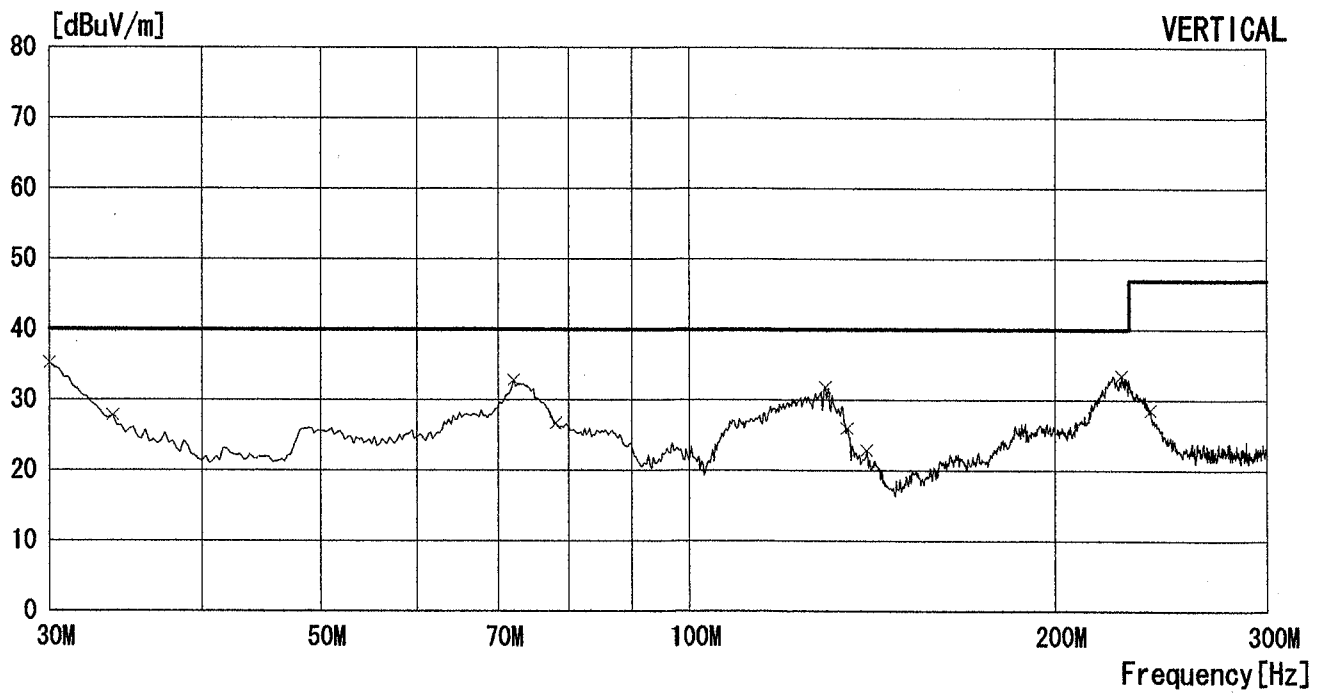
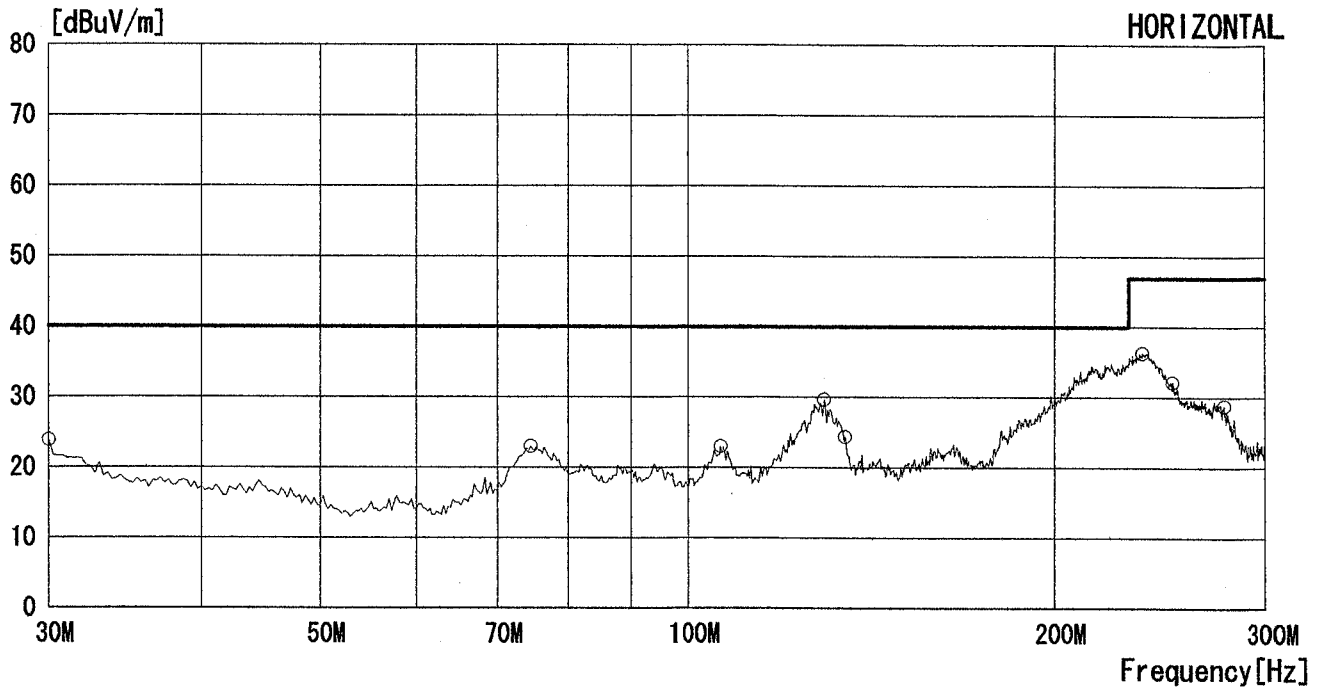
TDK EMC CENTER YAWATA 3m
測定日 : 2003/01/20 12:12:23

Model Name : スイッチング電源
Model No. : RKE48-32R
Serial No. : 24800011
Test Mode : 負荷 100%

Report No. : 005
Reguration : 18 °C53 %
Power Supply : A C 230V / 50 H z
Operator : T.N

Memo :

LIMIT : EN55022 Class B(3m)/EU



COND FILE = H/V (B)100-400(100cm step) (L)100-200(50cm step) T/T 中速

Results of Radiated Emission

TDK EMC CENTER YAWATA 3m
測定日 : 2003/01/20 12:12:23

Model Name : スイッチング電源
 Model No. : RKE48-32R
 Serial No. : 24800011
 Test Mode : 負荷100%

Report No. : 005
 Regulation : 18 °C53 %
 Power Supply : A C 230V / 50 H z
 Operator : T.N

Memo :

LIMIT : EN55022 Class B (3m) / EU

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	30.000	28.3	19.0	3.5	27.0	23.8	40.0	16.2	100(H)	101
2	74.550	39.7	6.2	4.1	27.0	23.0	40.0	17.0	300(H)	272
3	106.410	34.5	11.1	4.4	27.0	23.0	40.0	17.0	200(H)	298
4	129.629	38.3	13.9	4.4	26.9	29.7	40.0	10.3	300(H)	101
5	134.759	32.6	14.3	4.4	26.9	24.4	40.0	15.6	200(H)	107
6	236.281	40.0	17.6	5.2	26.5	36.3	47.0	10.7	100(H)	358
7	250.321	35.7	17.8	5.2	26.5	32.2	47.0	14.8	100(H)	13
8	275.970	30.9	18.9	5.4	26.4	28.8	47.0	18.2	100(H)	358
----- Vertical -----										
1	30.000	39.7	19.0	3.5	27.0	35.2	40.0	4.8	100(V)	328
2	33.780	33.8	17.5	3.5	27.0	27.8	40.0	12.2	100(V)	302
3	72.120	49.5	6.3	4.0	27.0	32.8	40.0	7.2	100(V)	214
4	78.060	43.4	6.1	4.2	27.0	26.7	40.0	13.3	100(V)	40
5	129.629	40.4	13.9	4.4	26.9	31.8	40.0	8.2	100(V)	246
6	135.029	34.1	14.3	4.4	26.8	26.0	40.0	14.0	100(V)	227
7	140.159	30.5	14.7	4.5	26.8	22.9	40.0	17.1	100(V)	266
8	226.831	37.4	17.4	5.2	26.5	33.5	40.0	6.5	100(V)	237
9	239.791	32.3	17.6	5.2	26.5	28.6	47.0	18.4	100(V)	279

COND FILE = H/V (B)100-400(100cm step) (L)100-200(50cm step) T/T 中速
