

Conducted noise according to:

EN55022 class B

EUT: Keyboard KBPC S (K252) with 2 m cable
Manufacturer: Siemens AG
Operating Condition: Scr"H", 1024x768/100 Hz; HD/CD-Test
Test Site: Siemens AG Augsburg SK1
Operator: R. Schaufler
Comment: full Configuration; Monitor MCM 1705
Comment: PC: Scenic Pro M7
Start of Test: 13.01.99 / 17:46:46

SCAN TABLE: "Volt_015-30MHZ"

Unit: dBµV

Detector: Mode:

Curve 1: MaxPeak MaxHold
Curve 2: Average MaxHold

Subrange 1:

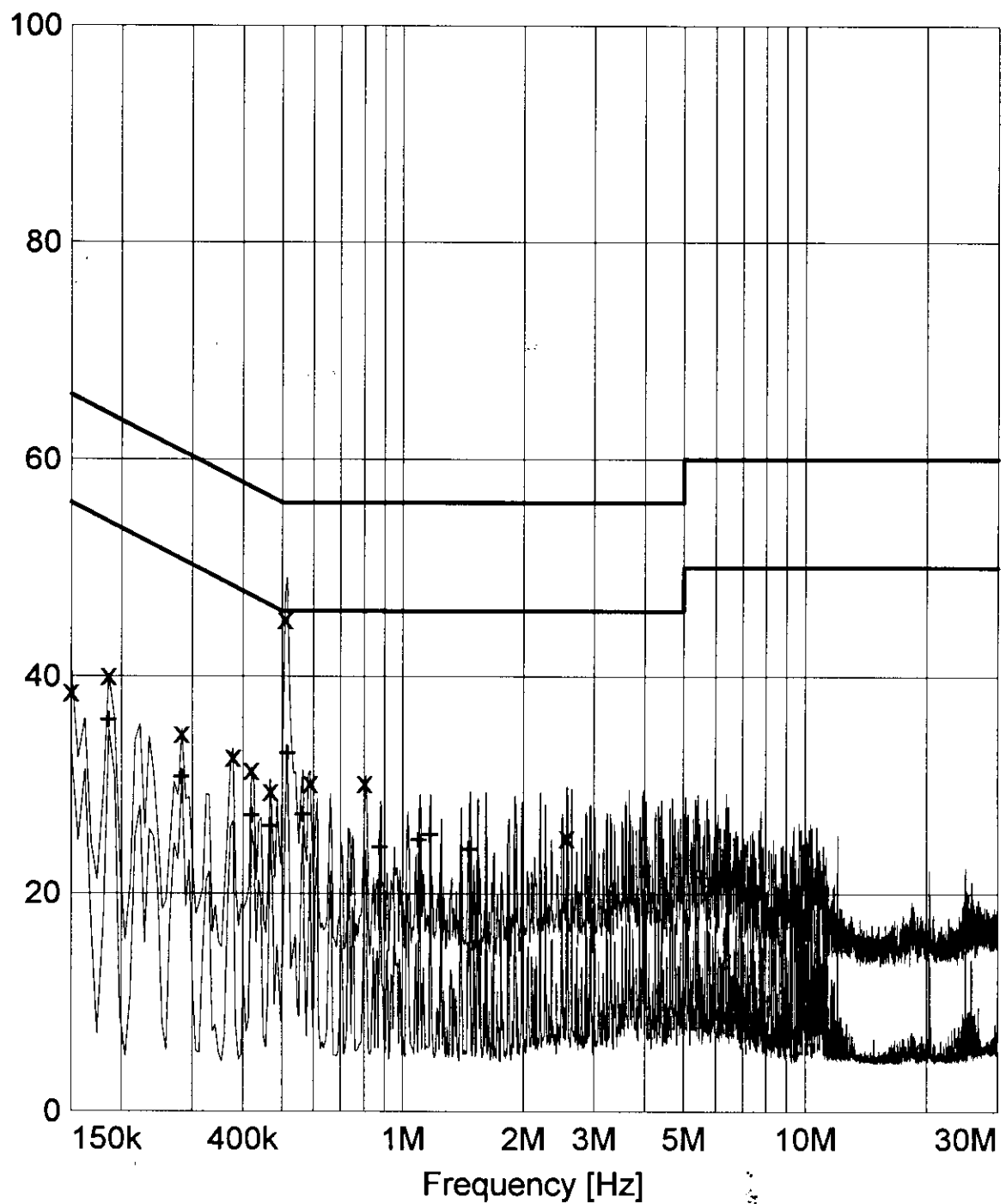
Start Frequency: 150.0 kHz Step Size: 6.0 kHz
Stop Frequency: 30.0 MHz
Measure Time: 10.0 ms
IF Bandwidth: 10 kHz

Receiver: ESHS Transducer: ESH2-Z5
Signal Path: None System Transducer: None
Meas. Mode: Lin Add. Transd. 1: ESH3-Z2
Tracking Gen.: -- Add. Transd. 2: None
Input: -- Add. Transd. 3: None

Preamplifier: Off Demodulation: A3
RF Att.: 0 dB Volume: --
Ref. Level: -- Squelch: --
Min. RF Att.: 10 dB Option: None
IF Att.: LowNoise
Autorange: On

Curve 1: On Repetition: 0
Curve 2: On Stop Mark: Off

Level [dB μ V]



x x MES Quasi Peak
 + + MES Average
 — MES Preview Peak
 — MES Preview AV
 — LIM EN 55022/B V QP
 — LIM EN 55022/B V AV

MEASUREMENT RESULT: "Quasi Peak"

13.01.99 15:04

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.150000	38.60	10.0	66.0	27.3	L1	GND
0.186000	40.10	10.0	64.2	24.0	N	GND
0.282000	34.80	10.0	60.7	25.9	N	GND
0.378000	32.60	10.0	58.3	25.6	L1	GND
0.420000	31.40	10.0	57.4	26.0	L1	GND
0.468000	29.50	10.0	56.5	27.0	N	GND
0.510000	45.30	10.0	56.0	10.6	L1	GND
0.588000	30.20	10.0	56.0	25.7	N	GND
0.804000	30.20	10.0	56.0	25.7	L1	GND
2.568000	25.20	10.0	56.0	30.7	N	GND

MEASUREMENT RESULT: "Average"

13.01.99 15:04

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.186000	36.00	10.0	54.2	18.1	N	GND
0.282000	30.70	10.0	50.7	20.0	L1	GND
0.420000	27.20	10.0	47.4	20.2	N	GND
0.468000	26.20	10.0	46.5	20.2	N	GND
0.516000	32.90	10.0	46.0	13.0	N	GND
0.564000	27.30	10.0	46.0	18.6	L1	GND
0.876000	24.30	10.0	46.0	21.6	N	GND
1.098000	24.90	10.0	46.0	21.0	L1	GND
1.170000	25.40	10.0	46.0	20.5	N	GND
1.464000	24.10	10.0	46.0	21.8	N	GND

Conducted noise according to:

EN55022 class B

EUT: Keyboard KBPC S (K252) with 4 m cable
Manufacturer: Siemens AG
Operating Condition: Scr"H", 1024x768/100 Hz; HD/CD-Test
Test Site: Siemens AG Augsburg SK1
Operator: R. Schaufler
Comment: full Configuration; Monitor MCM 1705
Comment: PC: Scenic Pro M7
Start of Test: 14.01.99 / 13:12:42

SCAN TABLE: "Volt_015-30MHZ"

Unit: dBµV

Detector: Mode:

Curve 1: MaxPeak MaxHold
Curve 2: Average MaxHold

Subrange 1:

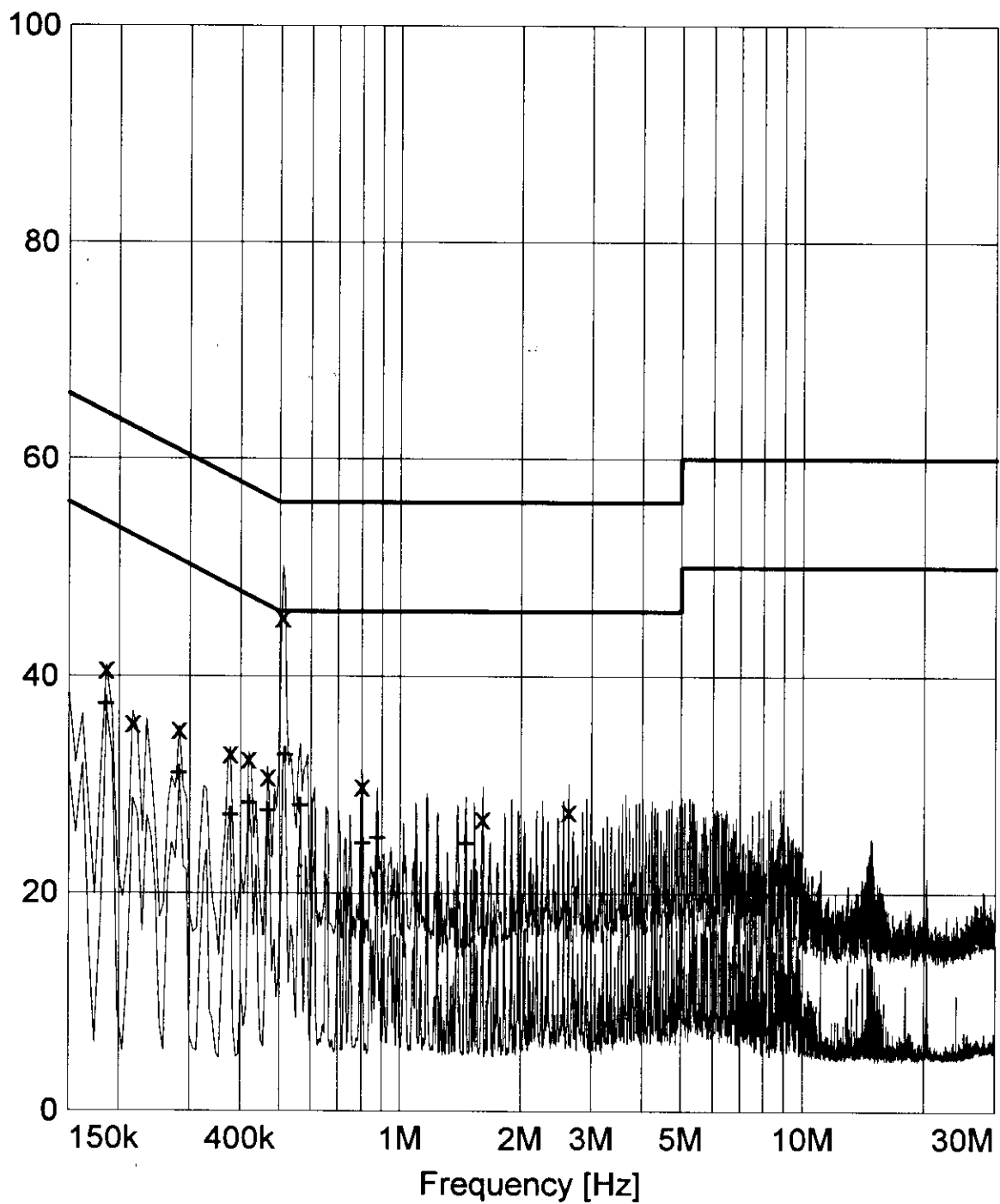
Start Frequency: 150.0 kHz Step Size: 6.0 kHz
Stop Frequency: 30.0 MHz
Measure Time: 10.0 ms
IF Bandwidth: 10 kHz

Receiver: ESHS Transducer: ESH2-Z5
Signal Path: None System Transducer: None
Meas. Mode: Lin Add. Transd. 1: ESH3-Z2
Tracking Gen.: -- Add. Transd. 2: None
Input: -- Add. Transd. 3: None

Preamplifier: Off Demodulation: A3
RF Att.: 0 dB Volume: --
Ref. Level: -- Squelch: --
Min. RF Att.: 10 dB Option: None
IF Att.: LowNoise
Autorange: On

Curve 1: On Repetition: 0
Curve 2: On Stop Mark: Off

Level [dB μ V]



x x MES Quasi Peak
 + + MES Average
 — MES Preview Peak
 — MES Preview AV
 — LIM EN 55022/B V QP
 — LIM EN 55022/B V AV

MEASUREMENT RESULT: "Quasi Peak"

13.01.99 15:34

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.186000	40.70	10.0	64.2	23.4	L1	GND
0.216000	35.70	10.0	62.9	27.2	L1	GND
0.282000	35.10	10.0	60.7	25.6	L1	GND
0.378000	32.90	10.0	58.3	25.4	L1	GND
0.420000	32.40	10.0	57.4	25.0	L1	GND
0.468000	30.80	10.0	56.5	25.6	L1	GND
0.510000	45.50	10.0	56.0	•10.4	L1	GND
0.804000	29.90	10.0	56.0	26.0	N	GND
1.602000	26.90	10.0	56.0	29.0	N	GND
2.628000	27.60	10.0	56.0	28.3	L1	GND

MEASUREMENT RESULT: "Average"

13.01.99 15:34

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.186000	37.40	10.0	54.2	•16.7	N	GND
0.282000	31.10	10.0	50.7	19.6	L1	GND
0.378000	27.20	10.0	48.3	21.0	N	GND
0.420000	28.30	10.0	47.4	•19.1	L1	GND
0.468000	27.60	10.0	46.5	•18.9	L1	GND
0.516000	32.80	10.0	46.0	•13.1	L1	GND
0.564000	28.10	10.0	46.0	•17.8	N	GND
0.804000	24.60	10.0	46.0	21.3	N	GND
0.876000	25.10	10.0	46.0	20.8	L1	GND
1.458000	24.60	10.0	46.0	21.3	N	GND

Radiated emission according to:

to EN55022 class B

EUT: Keyboard KBPC S (K252) with 2 m cable
Manufacturer: Siemens AG
Operating Condition: ScrH, 1024x768/100 Hz; HD/CD-Test
Test Site: Siemens-Augsburg (Semi-anechoic chamber 10m)
Operator: R. Schaufler
Configuration: full Configuration; Monitor MCM 1705
Comment: PC: Scenic Pro M7
Start of Test: 14.01.99 / 08:36:03

SCAN TABLE: "10m/30-1000"

Short Description: 10m Field Strength
Unit: dBuV/m

Detector: Mode:

Curve 1: MaxPeak ClearWrite

Subrange 1:

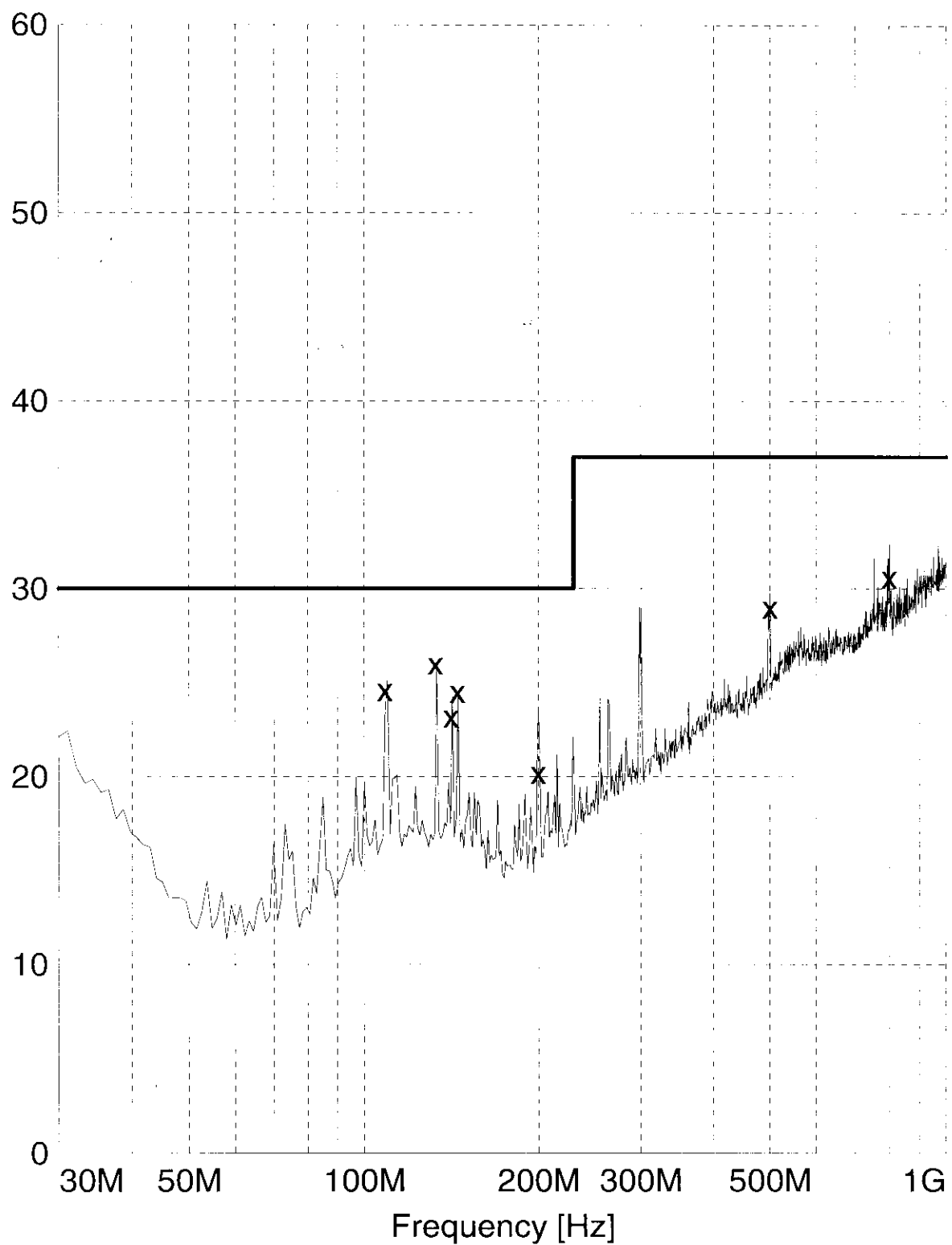
Start Frequency:	30.0 MHz	Step Size:	30.0 kHz
Stop Frequency:	1.0 GHz		
Measure Time:	10.0 ms		
IF Bandwidth:	120 kHz		

Receiver:	ESXI	Transducer:	CBL6112 cal. 9/95
Signal Path:	2DC-CP1X1	System Transducer:	RFin2-CP1/X1
Meas. Mode:	Lin	Add. Transd. 1:	cable30-1000
Tracking Gen.:	Off	Add. Transd. 2:	None
Input:	2DC	Add. Transd. 3:	None

Preamplifier:	10 dB	Demodulation:	AM
RF Att.:	Coupled	Volume:	70 %
Ref. Level:	-60.0 dBm	Squelch:	--
Min. RF Att.:	0 dB	Option:	None
IF Att.:	--		
Autorange:	On		

Curve 1:	On	Repetition:	Single
		Stop Mark:	Off
		Stop Message:	Off
		Stop Message:	

Level [dB μ V/m]



x x MES Quasi Peak
— MES Preview Peak
— LIM EN55022/B

MEASUREMENT RESULT: "Quasi Peak"

14.01.99 09:33

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
108.750000	24.60	12.5	30.0	5.3	340.0	270.00	HORIZONTAL
132.900000	26.00	12.6	30.0	3.9	400.0	270.00	HORIZONTAL
141.270000	23.20	12.4	30.0	6.7	100.0	150.00	VERTICAL
144.990000	24.50	12.2	30.0	5.4	400.0	59.00	HORIZONTAL
200.040000	20.20	10.8	30.0	9.7	100.0	300.00	VERTICAL
500.250000	29.00	19.7	37.0	7.9	160.0	239.00	HORIZONTAL
800.460000	30.60	22.8	37.0	6.3	220.0	59.00	VERTICAL

Radiated emission according to:

to EN55022 class B

EUT: Keyboard KBPC S (K252) with 4 m cable
Manufacturer: Siemens AG
Operating Condition: ScrH, 1024x768/100 Hz; HD/CD-Test
Test Site: Siemens-Augsburg (Semi-anechoic chamber 10m)
Operator: R. Schaufler
Configuration: full Configuration; Monitor MCM 1705
Comment: PC: Scenic Pro M7
Start of Test: 14.01.99 / 13:12:42

SCAN TABLE: "10m/30-1000"

Short Description: 10m Field Strength
Unit: dBuV/m

Detector: Mode:

Curve 1: MaxPeak ClearWrite

Subrange 1:

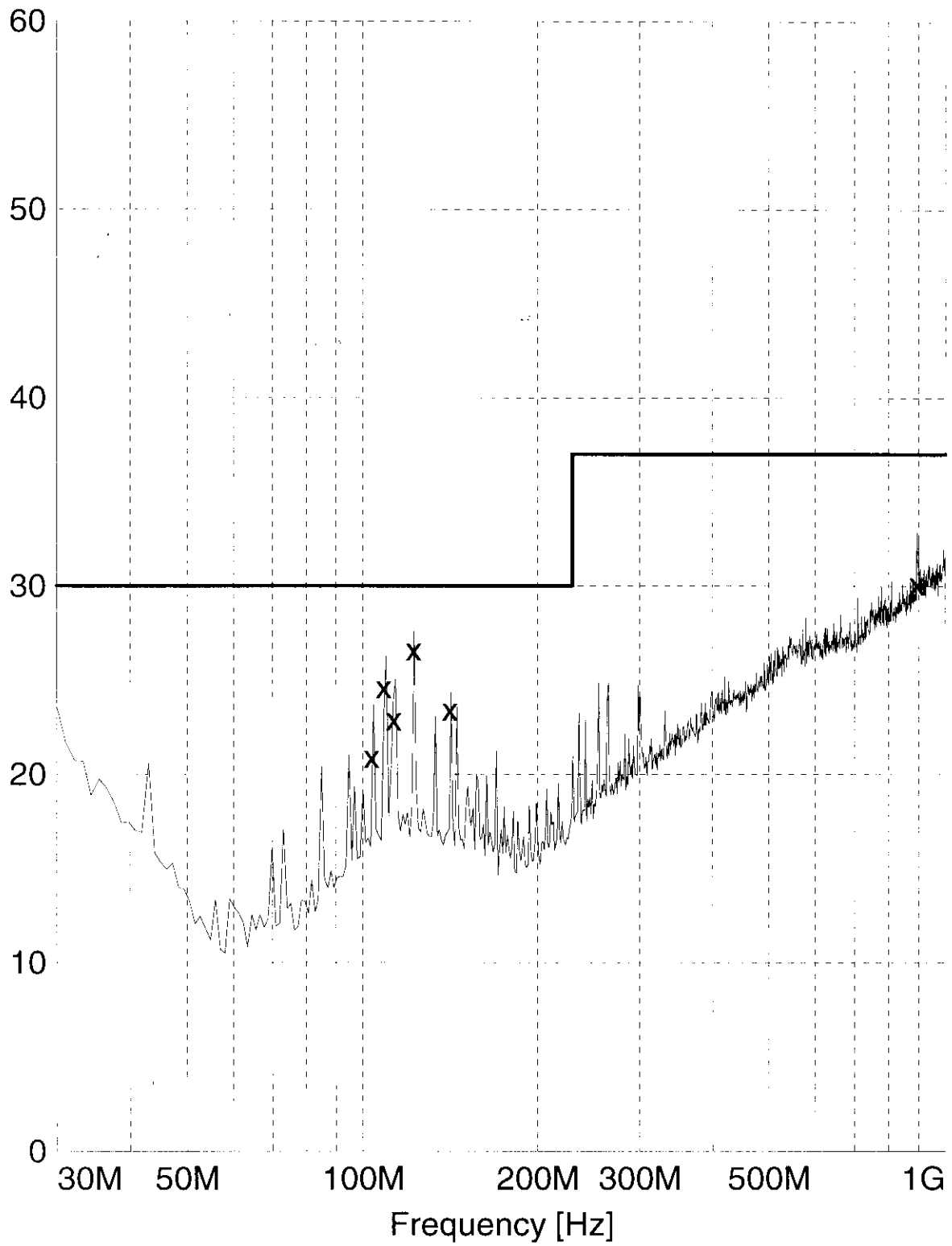
Start Frequency: 30.0 MHz Step Size: 30.0 kHz
Stop Frequency: 1.0 GHz
Measure Time: 10.0 ms
IF Bandwidth: 120 kHz

Receiver: ESXI Transducer: CBL6112 cal. 9/95
Signal Path: 2DC-CP1X1 System Transducer: RFin2-CP1/X1
Meas. Mode: Lin Add. Transd. 1: cable30-1000
Tracking Gen.: Off Add. Transd. 2: None
Input: 2DC Add. Transd. 3: None

Preamplifier: 10 dB Demodulation: AM
RF Att.: Coupled Volume: 70 %
Ref. Level: -60.0 dBm Squelch: --
Min. RF Att.: 0 dB Option: None
IF Att.: --
Autorange: On

Curve 1: On Repetition: Single
Stop Mark: Off
Stop Message: Off
Stop Message: Off

Level [dB μ V/m]



x x MES Quasi Peak
MES Preview Peak
— LIM EN55022/B

MEASUREMENT RESULT: "Quasi Peak"

14.01.99 14:12

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
103.590000	20.90	12.2	30.0	9.0	160.0	330.00	VERTICAL
108.750000	24.60	12.5	30.0	5.3	160.0	180.00	VERTICAL
113.040000	22.90	12.7	30.0	7.0	100.0	29.00	VERTICAL
122.460000	26.60	13.0	30.0	3.3	100.0	90.00	VERTICAL
141.270000	23.40	12.4	30.0	6.5	100.0	150.00	VERTICAL
894.720000	30.10	23.7	37.0	6.8	220.0	270.00	VERTICAL