

Conducted noise according to:

EN 55022 class B

EUT: Keyboard KBPC M2 (K278)
Manufacturer: Siemens AG
Operating Condition: scr. "H"; 1024X768/85Hz; HD+CD+KB-Test
Test Site: Siemens AG Augsburg SK1
Operator: R. Schaufler
Comment: Monitor MCM1705 power supply from PC
Comment: Maus (lange Leitung)
Start of Test: 23.02.99 / 08:41:05

SCAN TABLE: "Volt_015-30MHZ"

Unit: dBuV

Detector: Mode:

Curve 1: MaxPeak MaxHold
Curve 2: Average MaxHold

Subrange 1:

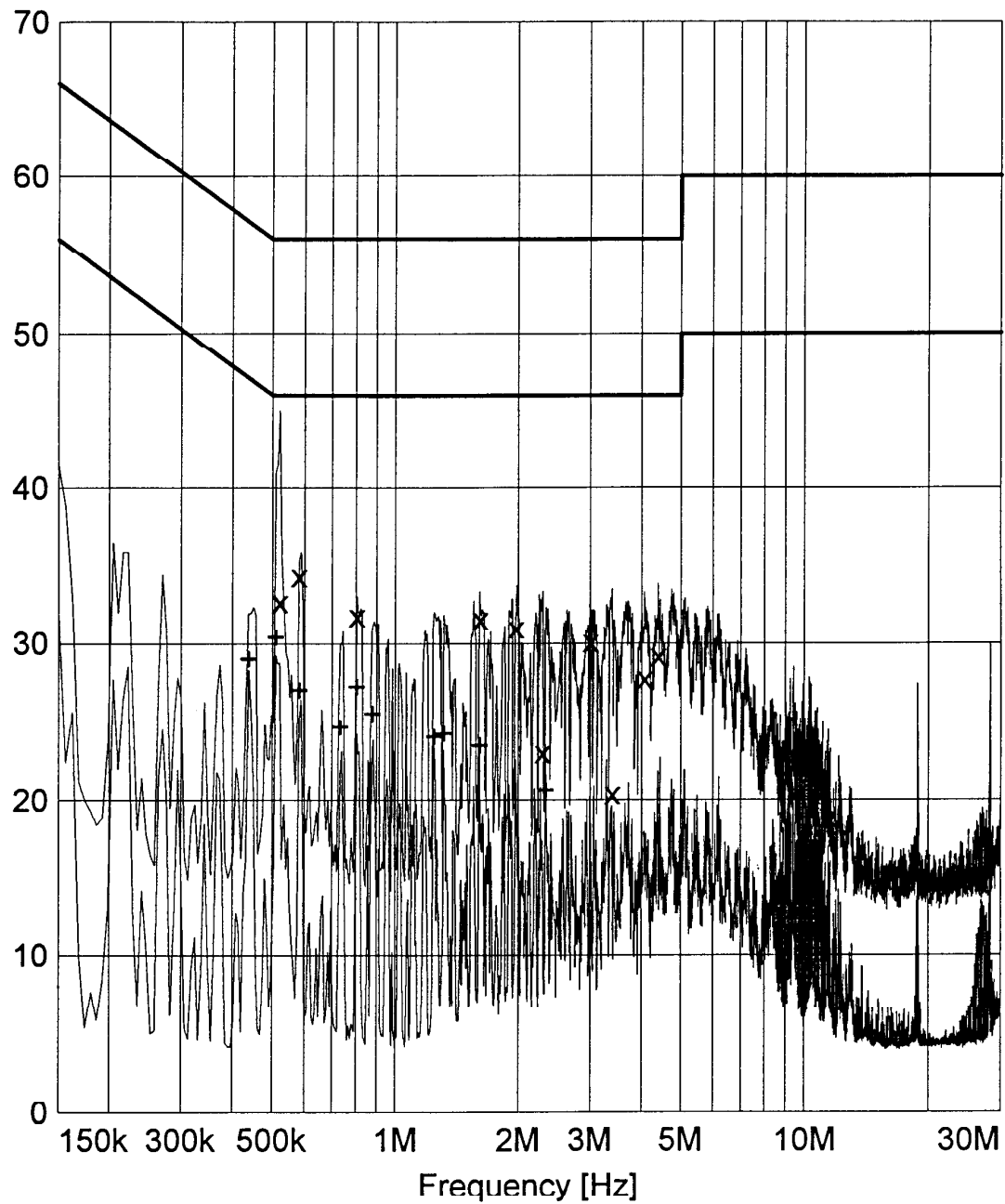
Start Frequency: 150.0 kHz Step Size: 6.0 kHz
Stop Frequency: 30.0 MHz
Measure Time: 10.0 ms
IF Bandwidth: 10 kHz

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"

23.02.99 08:26

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.522000	32.70	10.0	56.0	23.2	N	GND
0.582000	34.40	10.0	56.0	21.6	N	GND
0.804000	31.80	10.0	56.0	24.1	N	GND
1.608000	31.60	10.0	56.0	24.3	N	GND
1.968000	31.00	10.0	56.0	24.9	N	GND
2.298000	23.00	10.0	56.0	32.9	N	GND
3.006000	30.10	10.0	56.0	25.8	N	GND
3.396000	20.40	10.0	56.0	35.5	L1	GND
4.068000	27.80	10.0	56.0	28.1	N	GND
4.398000	29.20	10.0	56.0	26.7	N	GND

MEASUREMENT RESULT: "Average"

23.02.99 08:26

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.438000	29.00	10.0	47.0	18.0	N	GND
0.510000	30.40	10.0	46.0	15.5	N	GND
0.582000	27.00	10.0	46.0	18.9	N	GND
0.732000	24.60	10.0	46.0	21.3	N	GND
0.804000	27.20	10.0	46.0	18.7	N	GND
0.876000	25.50	10.0	46.0	20.4	N	GND
1.242000	24.00	10.0	46.0	21.9	N	GND
1.314000	24.20	10.0	46.0	21.7	N	GND
1.608000	23.40	10.0	46.0	22.5	N	GND
2.334000	20.60	10.0	46.0	25.4	N	GND

Conducted noise according to:

EN 55022 class B

EUT: Keyboard KBPC M2 (K278)
Manufacturer: Siemens AG
Operating Condition: scr. "H"; 1024X768/85Hz; HD+CD+KB-Test
Test Site: Siemens AG Augsburg SK1
Operator: R. Schaufler
Comment: Monitor MCM1705 power supply extern
Comment: Maus (lange Leitung)
Start of Test: 23.02.99 / 08:42:37

SCAN TABLE: "Volt_015-30MHZ"

Unit: dBµV

Detector: Mode:

Curve 1: MaxPeak MaxHold
Curve 2: Average MaxHold

Subrange 1:

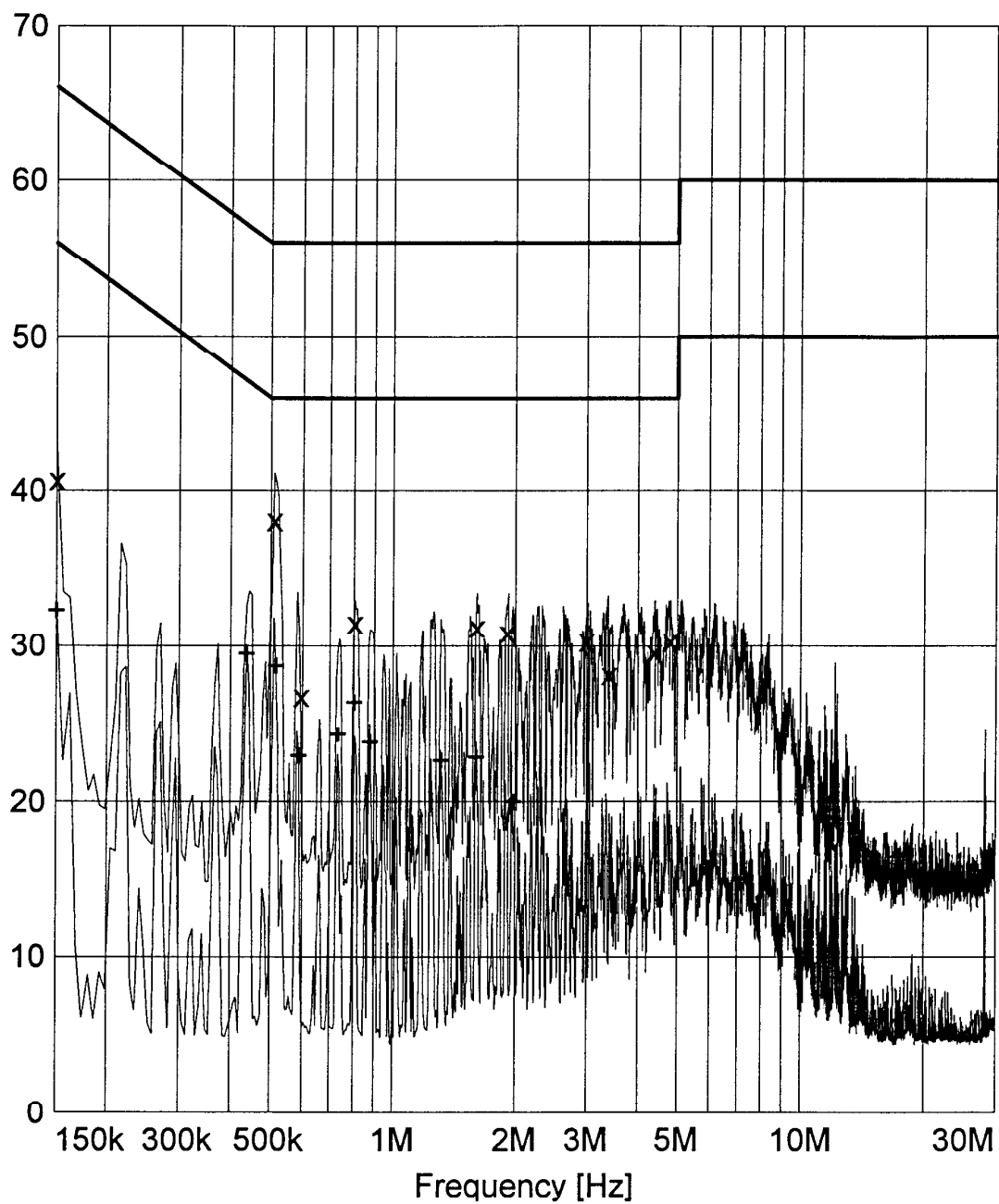
Start Frequency: 150.0 kHz Step Size: 6.0 kHz
Stop Frequency: 30.0 MHz
Measure Time: 10.0 ms
IF Bandwidth: 10 kHz

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"

23.02.99 08:55

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.150000	40.70	10.0	66.0	25.2	L1	GND
0.510000	38.20	10.0	56.0	17.7	L1	GND
0.594000	26.80	10.0	56.0	29.1	N	GND
0.804000	31.50	10.0	56.0	24.4	N	GND
1.602000	31.20	10.0	56.0	24.8	N	GND
1.908000	30.90	10.0	56.0	25.0	N	GND
3.000000	30.30	10.0	56.0	25.6	N	GND
3.396000	28.20	10.0	56.0	27.8	N	GND
4.392000	29.60	10.0	56.0	26.3	N	GND
4.800000	30.30	10.0	56.0	25.6	N	GND

MEASUREMENT RESULT: "Average"

23.02.99 08:55

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.150000	32.30	10.0	56.0	23.6	N	GND
0.438000	29.50	10.0	47.0	17.5	N	GND
0.516000	28.70	10.0	46.0	17.2	N	GND
0.588000	22.90	10.0	46.0	23.0	N	GND
0.732000	24.30	10.0	46.0	21.6	N	GND
0.804000	26.40	10.0	46.0	19.5	N	GND
0.876000	23.80	10.0	46.0	22.2	N	GND
1.314000	22.60	10.0	46.0	23.3	N	GND
1.602000	22.80	10.0	46.0	23.1	N	GND
1.980000	20.00	10.0	46.0	25.9	N	GND

Radiated emission according to:

to EN55022 class B

EUT: Keyboard KBPC M2 (K278)
Manufacturer: Siemens AG
Operating Condition: Scr-"H", 1024x768x85Hz, HD-CD-Audio-Test
Test Site: SNI-Augsburg (Semi-anechoic chamber 10m)
Operator: R. Schaufler
Configuration: fully configured, with Monitor MCM 1705 NTD
Comment:
Start of Test: 02.03.99 / 14:39:20

SCAN TABLE: "10m/30-1000"

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

Detector: Mode:

Curve 1: MaxPeak ClearWrite

Subrange 1:

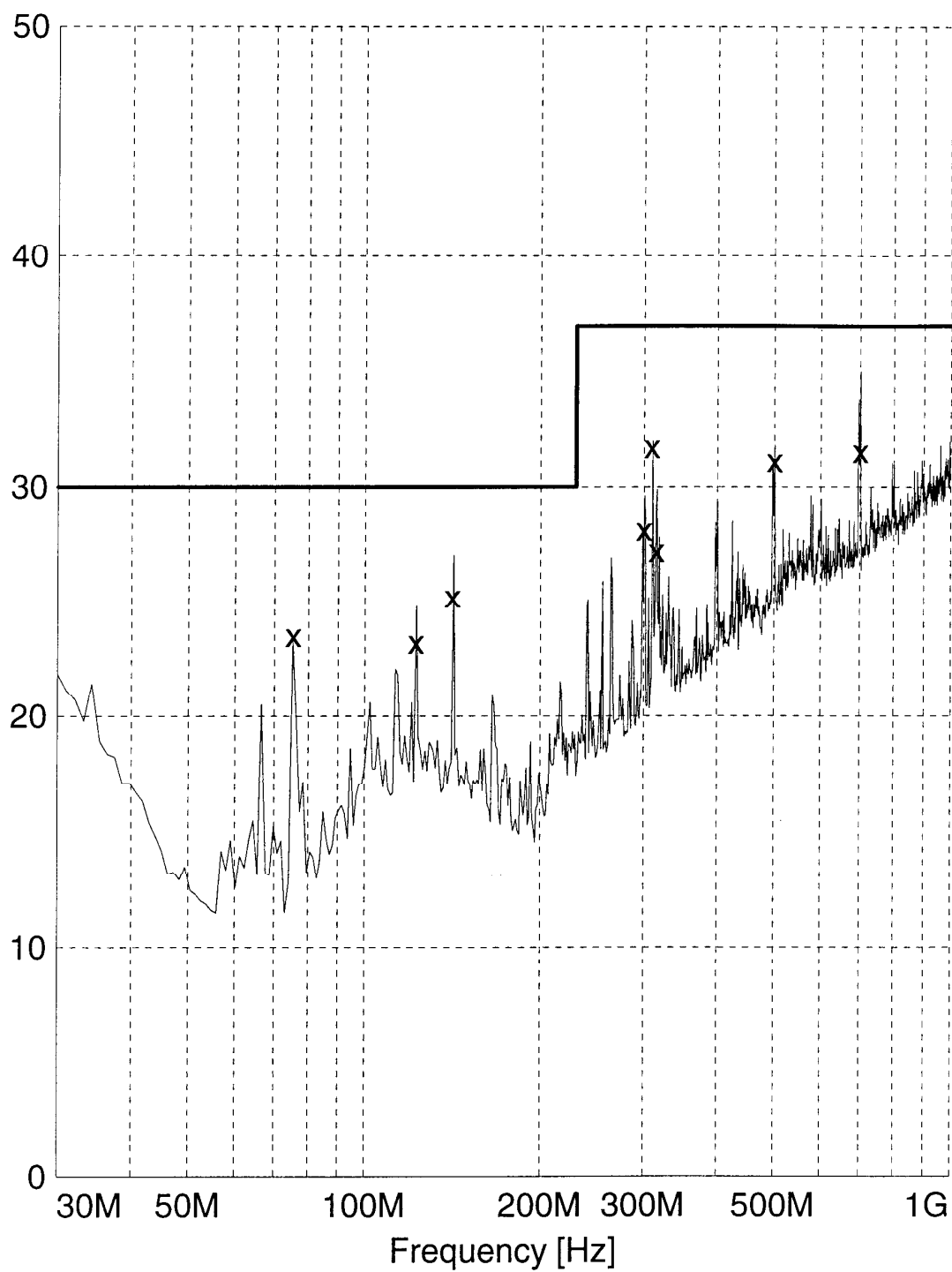
Start Frequency: 30.0 MHz Step Size: 30.0 kHz
Stop Frequency: 1.0 GHz
Measure Time: 10.0 ms
IF Bandwidth: 120 kHz

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"

02.03.99 15:55

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Height cm	Azimuth deg	Polarisation
75.360000	23.50	7.9	30.0	6.4	160.0	150.00	VERTICAL
122.430000	23.20	13.0	30.0	6.7	160.0	29.00	VERTICAL
141.270000	25.20	12.4	30.0	4.7	340.0	59.00	HORIZONTAL
300.120000	28.10	15.4	37.0	8.9	220.0	150.00	HORIZONTAL
309.570000	31.70	15.7	37.0	5.2	220.0	59.00	HORIZONTAL
315.000000	27.20	15.8	37.0	9.7	160.0	239.00	HORIZONTAL
500.250000	31.10	19.7	37.0	5.8	160.0	210.00	HORIZONTAL
700.320000	31.50	21.7	37.0	5.4	160.0	90.00	VERTICAL