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10 REM*****
20 REM*
30 REM* SMFPZ DEMO PROGRAM USER #1/2 *
40 REM* ----- *
50 REM* ORIGINATOR: BAYRHUBER TBF *
60 REM* MODIFIED : VENZIN MANETSCH *
70 REM* DATE : 10.MAI.1986/MK III *
80 REM*
90 REM*****
100 Y1$="SMFPZ"
110 R=1:GOSUB 9000
120 R=6:Y=2:GOSUB9000 :REM FM
130 R=7:Y=3.5:GOSUB9000 :REM MAX.MOD.
140 Y1=2:Y=0:R=20:GOSUB9000
150 Y1=3:Y=0:R=20:GOSUB9000
160 Y1=4:Y=0:R=20:GOSUB9000
170 REM*****
180 REM*
190 REM* S E N D E R *
200 REM* ===== *
210 REM*
220 REM*****
230 :
240 GOSUB 3320
250 PRINT "L"
260 PRINT:PRINT:PRINT
270 PRINT"GERAETEDATEN"
280 PRINT"-----" 39
290 PRINT:PRINT:PRINT:PRINT
300 INPUT"BETRIEBSSPANNUNG IN VOLT =";B
310 Y3=2:Y1=(B-0.1):Y2=(B+0.1):R=35:GOSUB 9000
320 PRINT
330 R=35:GOSUB 9000
340 IF Y<Y1 THEN 310
350 IF Y>Y2 THEN 310
360 PRINT"BETRIEBSSPANNUNG = "TAB(25) Y "VOLT"
370 PRINT
380 INPUT"ANZAHL KANAELE ";K$
390 IF ASC(K$)> 47 THEN 400
400 IF ASC(K$)< 58 THEN 430
410 POKE 198,0:POKE 197,130:POKE 196,560 AND 255
420 GOTO 380
430 K=ASC(K$)-48:IF K<1 THEN GOTO 380
440 Y1=2:Y=1:R=20:GOSUB9000
450 FOR L=1 TO K STEP 1
460 PRINT"L"
470 PRINT:PRINT:PRINT
480 PRINT"SENDERTEST"
490 PRINT"-----" 39
500 PRINT:PRINT:PRINT:PRINT
510 PRINT
520 PRINT
530 INPUT"EINSTELLEN KANAL ";K$(L)
540 IF ASC(K$(L))> 47 THEN 550
550 IF ASC(K$(L))< 58 THEN 580
560 POKE 198,0:POKE 197,129 :POKE 196,480 AND 255
570 GOTO 530
580 PRINT: K(L)=ASC(K$(L))-48
590 PRINT
600 R=41:GOSUB9000:IF Y>0.1THEN GOTO 640
610 R=40:GOSUB 9000
620 Y$="SENDER HOCHTASTEN "
630 R=87:GOSUB9000
640 R=54:YE=2:GOSUB9000
650 IFY<.4THEN680

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640 R=34:TE=Z:GOSUB9000
650 IFY<.4THEN680
660 PRINT"MESSUNG TX FREQUENZ = ";Y;" MHZ"
670 X(6)=INT(200*Y+.5)/200
680 PRINT"EINGABE NOMINAL TX FREQUENZ: ";
690 PRINTX(6);
700 PRINT"␣"CHR$(13)TAB(29)
710 INPUTX(6)
720 S(L)=X(6)
730 PRINT
740 PRINT"SIMPLEX ODER DUPLEX (S/D): ";
750 PRINT" S";:PRINT"␣"CHR$(13)TAB(30);:INPUTD$
760 IFD$="D"THEN790
770 IFD$="S"THEN840
780 GOTO740
790 PRINT
800 PRINT"DUPLEX ABSTAND (RX-TX)IN MHZ : ";
810 PRINTX(4);:PRINT"␣"CHR$(13)TAB(30);:INPUTX(4)
820 X(1)=X(6)+X(4)
830 F(L)=X(1):GOTO 870
840 X(4)=0:X(1)=X(6)
850 F(L)=X(6)
860 R(L)=X(6)
870 R=41:GOSUB 9000
880 P(L)=Y
890 IF P(L)>.009 THEN 950
900 PRINT
910 PRINT
920 PRINT
930 Y$=" K E I N E L E I S T U N G "
940 R=87:GOSUB 9000
950 A(L)=INT(Y)
960 R=36:GOSUB 9000
970 PRINT:A(L)=Y
980 PRINT"SENDERSTROM " ,Y;"AMP"
990 HOLD 1000
1000 IF L=K THEN GOTO 1020
1010 NEXT L
1020 PRINT
1030 INPUT"5-TON MODULATIONEN Y/N";T$
1040 IF T$="Y" THEN GOTO 1070
1050 IF T$="N" THEN GOTO 1380
1060 GOTO 1030
1070 PRINT
1080 INPUT"ANZAHL 5-TON MODULATIONEN";M
1090 GOSUB 3120
1100 Y1=2:Y=0:R=20:GOSUB9000
1110 PRINT
1120 Y$="Z":R=19:GOSUB9000
1130 FOR L=1 TO M
1140 Y=0:R=17:GOSUB 9000
1150 R=43:GOSUB 9000
1160 Y$="00000000":R=33:GOSUB 9000
1170 PRINT
1180 Y$="NUMMER EINSTELLEN "
1190 R=87:GOSUB9000
1200 Y1=4:Y=1:R=20:GOSUB9000
1210 HOLD 800: Y1=4:Y=0:R=20:GOSUB9000
1220 R=34:GOSUB9000
1230 IF Y$<>" " THEN GOTO1270
1240 Y$="RUF AUSLÖSEN"
1250 R=87:GOSUB 9000
1260 R=34:GOSUB 9000
1270 PRINT
1280 Y$=RIGHT$(Y$,6)
1290 PRINT"DECODIERTE NUMMER ";Y$
1300 N$(L)=Y$
1310 NEXT L
1320 PRINT
1330 PRINT
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1320 PRINT
1330 PRINT
1340 INPUT"DECODIERTE NUMMERN WIDERHOLEN Y/N",A$
1350 IF A$="Y" THEN GOTO 1090
1360 IF A$="N" THEN GOTO 1380
1370 GOTO1340
1380 GOSUB 3120
1390 Y1=4:Y=0:R=20:GOSUB9000
1400 Y1=2:Y=1:R=20:GOSUB9000
1410 FOR L=1 TO K STEP 1
1420 GOSUB 3170
F- 1430 PRINT" I KANAL "K(L); " I MHZ I";F(L)TAB(38)" I"
1440 GOSUB 3170
F- 1450 PRINT" IHF LEISTUNG I WI";
1460 PRINTTAB(30)P(L)TAB(38)" I"
1470 GOSUB3170
1480 Y(6)=S(L)
F- 1490 PRINT" IFREQUENZ ABWEICHUNG I HZI";
1500 R=42:GOSUB9000:PRINTTAB(30)INT(Y)TAB(38)" I"
1510 GOSUB3170
F- 1520 PRINT" ISENDERSTROM I AMPI";
1530 PRINTTAB(30)A(L)TAB(38)" I"
1540 PRINT" |-----|"
1550 IF L=K THEN GOTO 1570
1560 NEXT L
1570 GOSUB3170
1580 IFT$="N" THEN GOTO 1660
1590 FOR L=1 TO M
F 1600 PRINT" IDECODIERTER RUF "L;
1610 PRINT TAB(30)N$(L)TAB(38)" I"
1620 GOSUB 3170
1630 NEXT L
1640 PRINT" |-----|"
1650 GOSUB 3170
F 1660 PRINT" IMIKROFON EMPFINDLICH. I MVI";
1670 R=48:Y=100:YA=1:GOSUB9000:PRINTTAB(30)Y TAB(38)" I"
1680 Y=Y*10:IFY>4995THENY=4995
1690 R=17:GOSUB9000
1700 GOSUB3170
F 1710 PRINT" IHUB MAXIMAL I KHZ I";
1720 R=43: GOSUB9000:PRINTTAB(30)YTAB(38)" I"
1730 GOSUB3170
F 1740 PRINT" IKLIRR BEI 1 KHZ I %I";
1750 R=48:Y=60:YA=1:GOSUB9000
1760 R=30: GOSUB9000:PRINTTAB(30)YTAB(38)" I"
1770 GOSUB3170
F 1780 PRINT" ISIGNAL/RAUSCH ABSTAND I DBI";
1790 R=53:GOSUB9000
1800 PRINTTAB(30)YTAB(38)" I"
1810 GOSUB 3170
1820 Y1=3:Y=1:R=20:GOSUB9000
1830 PRINT" I"TAB(38)" I"
1840 PRINT" IMODULATIONS FREQUENZ-GANG "TAB(38)" I"
1850 GOSUB 3170
1860 PRINT" I"TAB(38)" I"
1870 R=18:Y=0:GOSUB9000 :REM CCITT OFF
F 1880 Y$=".1,.5,1,1.5,2.7,3,6"
1890 R=49:GOSUB9000
1900 FORN=1TOY9
1910 PRINT" I @ "X(20+N)TAB(9)"KHZ I DBI"TAB(30)Y(N)TAB(38)" I"
1920 GOSUB 3170
1930 NEXT
1940 PRINT" |-----|"
1950 Y1=2:Y=0:R=20:GOSUB9000
1960 REM Y1$="SMFP2"
1970 REM R=1:GOSUB9000
1980 Y$="EMPFAENGER TEST = R : AUSDRUCK = H": R=87:GOSUB9000
1990 IF Y1$="H"THEN1990
2000 IF Y1$="R"THEN2020
2010 GOTO1980

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2000 IF Y1#="R"THEN2020
2010 GOTO1980
2020 REM R= 6:Y=2 :GOSUB 9000
2030 REM R= 7:Y=4,5:GOSUB 9000
2040 R= 9:Y=10 :GOSUB 9000
2050 R=12:Y= 2 :GOSUB 9000
2060 R=18:Y=0 :GOSUB 9000
2070 PRINT"Q"
2080 REM K=Z;K(1)=0;K(1)=172.525;K(2)=172.525
2090 REM*****
2100 REM* *
2110 REM* E M P F A E N G E R *
2120 REM* ===== *
2130 REM* *
2140 REM*****
2150 M=K
2160 FORL=1TO M
2170 PRINT"Q"
2180 PRINT:PRINT:PRINT
2190 PRINT"EMPFAENGERTEST"
2200 PRINT"-----"
2210 PRINT:PRINT:PRINT:PRINT
2220 PRINT"KANAL "K(L):" EINSTELLEN"
2230 GETK$
2240 IF K$ ="" THEN 2230
2250 PRINT:X(1)=R(L)
2251 Y1=4;Y=1;R=20;GOSUB9000
2252 HOLD 100
2253 Y1=4;Y=0;R=20;GOSUB9000
2260 R=62;GOSUB9000
2270 Y#="EMPFAENGER EIN / SQUELCH AUS"
2280 R=87;GOSUB9000
2290 R=41;GOSUB9000:IFY>0THEN2360
2300 K=0
2310 IFK=3THEN2710
2320 R=28;GOSUB9000
2330 Y#="LAUTSTAERKE EINSTELLEN AUF 1000-3000 MV"
2340 Y1=1000;Y2=3000;R=86;GOSUB9000
2350 IFY3=1THENK=K+1;GOTO2410
2360 GOTO2400
2370 PRINT"Q"
2380 Y#="CHECK RECEIVER AUDIO OUTPUT":R=87;GOSUB9000
2390 K=0;Y3=2;GOTO2430
2400 R=10;Y=0;GOSUB9000
2410 R=28;GOSUB9000;Y1=Y
2420 R=10;Y=1;GOSUB9000
2430 IFY1<100THENY#="RAUSCHSPERRE AUS":GOTO2370
2440 PRINT"KANAL "K(L)TAB(25) R(L)TAB(35)"MHZ"
2450 PRINT
7 2460 INPUT"CCITT FILTER EIN Y/N ";A$
2470 IF A$ = "N" THEN 2490
2480 R=18;Y=1;GOSUB9000
2490 PRINT
7 2500 PRINT"EMPF.BEI 20 DB SINAD"TAB(25);
2510 Y=20;R=67;GOSUB 9000
2520 PRINT Y TAB(35)"UV":E(L)=Y
2530 PRINT
7 2540 PRINT"S/R ABSTAND BEI 1UV RF"TAB(25);
2550 Y=1;R=9;GOSUB9000
2560 Y=100;R=64;GOSUB 9000
2570 PRINT Y TAB(35)"DB" :S(L)=Y
2580 PRINT
7 2590 PRINT"KLIRR BEI 1 KHZ"TAB(25);
2600 Y=3.5;R=12;GOSUB9000
2610 R=30;GOSUB9000
2620 PRINT Y TAB(35)"%" :D(L)=Y
2630 HOLD5000
2640 R=18;Y=0;GOSUB9000
2650 NEXT L
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2700 PRINT " |-----| "
2710 FOR L=1 TO M
2720 PRINT " I KANAL "K(L);" IMHZ I";R(L)TAB(38)" I "
2730 GOSUB 3170
2740 PRINT " IEMPFINDL. @ 20-DB SINADI UV I"TAB(30);
2750 PRINTE(L)TAB(38)" I "
2760 GOSUB 3170
2770 PRINT " IS/R ABSTAND @ 1-MV RF I DB I"TAB(30);
2780 PRINT S(L)TAB(38)" I "
2790 GOSUB 3170
2800 PRINT " IKLIRR BEI @ 1 KHZ I % I"TAB(30);
2810 PRINT D(L)TAB(38)" I "
2820 GOSUB 3170
2830 PRINT " |-----| "
2840 NEXT L
17 2850 PRINT " IDEMOD.FREQUENZ-GANG "TAB(38)"/ "
2860 PRINT " I"TAB(38)" I "
2870 Y#=" .1, .5, 1, 1.5, 2.7, 3, 6 "
2880 R=76:GOSUB 9000
2890 FOR N=1 TO Y
2900 PRINT " I "X(20+N)TAB(9)"KHZ I DB I"TAB(38)Y(N)TAB(38)" I "
2910 NEXT N
2920 PRINT " I"TAB(24)" I"TAB(28)" I"TAB(38)" I "
2921 Y1=6:Y=0:R=20:GOSUB 9000
2926 R=10:Y=0:GOSUB 9000
2927 R=20:GOSUB 9000:Y1=Y
2928 R=10:Y=1:GOSUB 9000
2929 IF Y1<10 THEN GOTO 2940
2930 Y#="RAUSCHSPERRE EIN !":R=87:GOSUB 9000
2940 PRINT " ISQUELCH HYSTERESE I DB I"TAB(30);
2950 R=72:GOSUB 9000
2960 PRINT YTAB(38)" I "
2970 PRINT " ISQUELCH OBERER PEGEL I UV I"TAB(30)Y2TAB(38)" I "
2980 PRINT " ISQUELCH UNTERER PEGEL I UV I"TAB(30)Y1TAB(38)" I "
2981 Y1=6:Y=1:R=20:GOSUB 9000
2982 R=10:Y=0:GOSUB 9000
2983 R=20:GOSUB 9000:Y1=Y
2984 R=10:Y=1:GOSUB 9000
2985 IF Y1>10 THEN GOTO 3000
2990 Y#="RAUSCHSPERRE AUS !":R=87:GOSUB 9000
3000 PRINT " |-----| "
3010 Y#="HARDCOPY = H ; STOP = S ; RESTART = R":R=87:GOSUB 9000
3020 IF Y1#="H" THEN R=93:GOSUB 9000
3030 IF Y1#="S" THEN END
3040 IF Y1#="R" THEN 170
3050 GOTO 3130
3060 :
3070 REM*****
3080 REM* *
3090 REM* T I T L E *
3100 REM* *
3110 REM*****
3120 PRINT " |-----| "
3130 PRINT " I MANETSCH AG CHUR PRUEFFPROTOKOLL I "
3140 PRINT " I***** I "
3150 GOSUB 3530
3160 RETURN
3170 S=PEEK(33726)
2 3180 IF K5# "Y" THEN RETURN
3190 IF S=32 THEN RETURN
3200 Y1=2:Y=0:R=20:GOSUB 9000
3210 R=93:GOSUB 9000
3220 OPEN 1,230
3230 FOR I = 1 TO 4
3240 PRINT#1,CHR$(27);CHR$(10);
3250 HOLD 200
3260 NEXT I
3270 PRINT#1,CHR$(27);CHR$(28);
3280 CLOSE 1
3290 PRINT#1,CHR$(27);CHR$(28);

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3270 PRINT#1,CHR$(27);CHR$(28);
3280 CLOSE 1
3290 PRINT"G"
3300 Y1=2:Y=1:R=20:GOSUB 9000
3310 RETURN
3320 REM*****TESTKOPF*****
3330 PRINT:PRINT:PRINT
3340 PRINT"PRUEFKOPF"
3350 PRINT"-----"
3360 PRINT:PRINT:PRINT:PRINT
3370 INPUT"KUNDE          ";K1$
3380 PRINT
3390 INPUT"GERAETE TYP    ";K2$
3400 PRINT
3410 INPUT"GERAETE NUMMER ";K3$
3420 PRINT
3430 INPUT"DATUM         ";K4$
3440 PRINT
3450 INPUT"AUTO-PRINT   Y/N ";K5$
3460 IF K5$ ="Y" THEN 3520
3470 IF K5$ ="N" THEN 3520
3480 POKE 198,0
3490 POKE 197,130
3500 POKE 196,720 AND 255
3510 GOTO 3450
3520 RETURN
3530 PRINT" IKUNDE          ";K1$;TAB(38)"|"
3540 PRINT" IGERAETE TYP    ";K2$;TAB(38)"|"
3550 PRINT" IGERAETE NUMMER ";K3$;TAB(38)"|"
3560 PRINT" IDATUM         ";K4$;TAB(38)"|"
3570 PRINT" |*****|"
3580 RETURN
8996 END:REM SMFP-GRUNDSOFTWARE SMFP2K1
8997 REM SMFP BASIC SOFTWARE      SMFP2K1
8998 REM IN:358.2015.02           010283
8999 REM          1          2          3          4          5          6          7          8          9
9000 REM
9005 ON R-00 GOTO10000,10050,10100,10150,10200,10250,10300,10350,10400,1
9010 ON R-10 GOTO10500,10550,10600,10650,10700,10750,10800,10850,10900,1
9020 ON R-20 GOTO11000,11050,11100,11150,11200,11250,11300,11350,11400,1
9030 ON R-30 GOTO11500,11550,11600,11650,11700,11750,11800,11850,11900,1
9040 ON R-40 GOTO12000,12050,12100,12150,12200,12250,12300,12350,12400,1
9050 ON R-50 GOTO12500,12550,12600,12650,12700,12750,12800,12850,12900,1
9060 ON R-60 GOTO13000,13050,13100,13150,13200,13250,13300,13350,13400,1
9070 ON R-70 GOTO13500,13550,13600,13650,13700,13750,13800,13850,13900,1
9080 ON R-80 GOTO14000,14050,14100,14150,14200,14250,14300,14350,14400,1
9090 ON R-90 GOTO14500,14550,14600,14650,14700,14750,14800,14850,14900,1
9991 GOTO14950
10000 YS$=Y1$:Y1$="START":REM***** 1
10001 DIM Y(20),X(40),Y$(6):IECTIME250:IECTERM13
10002 PRINT"G":IECDCL
10003 IECDEV SMFP=30:IECDEV NGPU=12:IECOFFSR0
10010 IF PEEK(898)=186 AND PEEK(899)=142 THEN10016
10012 Y$(0)="186,142,140,003,096,174,140,003,154,096,"
10014 FOR Y1=0TO9:POKE898+Y1,VAL(MID$(Y$(0),4*Y1+1,4*Y1+4)):NEXT
10016 SYS(898)
10038 IF YS$="" OR YS$="SMFP" THEN YS$="P":RETURN
10040 IF YS$="SMFP2" THEN YS$="A":RETURN
10045 GOTO14950
10050 Y1$="RX-FREQU":REM***** 2
10051 X(1)=Y:X(6)=X(1)-X(4):RETURN
10100 Y1$="MULTI-CHANNEL":REM***** 3
10101 X(1)=Y:X(2)=Y1:X(3)=Y2:RETURN
10150 Y1$="DUPLEX SPACING":REM***** 4
10151 X(4)=Y:X(6)=X(1)-X(4):RETURN
10200 Y1$="IF+/-":REM***** 5
10201 X(5)=Y:RETURN
10250 Y1$="TYPE OF MOD.":REM***** 6
10251 X(7)=Y:ON X(7)GOTO10253,10254,10255
10252 GOTO14950

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10253 Y5$="AA,BI,":GOSUB16010:RETURN
10254 Y5$="AB,BJ,":GOSUB16010:RETURN
10255 Y5$="AC,BK,":GOSUB16010:RETURN
10300 Y1$="MAX,MOD,":REM***** 7
10301 IFY>100THENGOTO14950
10302 X(8)=Y:RETURN
10350 Y1$="GEN,RF-SETTING":REM***** 8
10351 IFY<.40RY>1000THENGOTO14950
10352 Y5$="AG"+MID$(STR$(Y),2,8)+",":GOSUB16010:RETURN
10400 Y1$="GEN,RF-LEVEL":REM***** 9
10401 IFY<.0320RY>1000000THENGOTO14950
10402 IFY>1000THENY=Y/1000:Y3$="AJ":GOTO10404
10403 Y3$="AI"
10404 Y5$=Y3$+MID$(STR$(Y),2,8)+",":GOSUB16010:RETURN
10450 Y1$="GEN,RF ON/OFF":REM*****10
10451 IFY=1THENY5$="E0,":GOSUB16010:RETURN
10452 IFY=0THENY5$="D0,":GOSUB16010:RETURN
10453 GOTO14950
10500 Y1$="RF-LEVEL-VARIATION":REM***11
10501 IFY=1THENY5$="EK,":GOSUB16010:RETURN
10502 IFY=-1THENY5$="DK,":GOSUB16010:RETURN
10503 GOTO14950
10550 Y1$="GEN,MOD,INTERN":REM*****12
10551 IFX(7)<>3THEN10554
10552 IFY>12THEN14950
10553 GOTO10555
10554 IFY>100THEN14950
10555 Y5$="AM"+MID$(STR$(Y),2,8)+",":GOSUB16010:RETURN
10600 Y1$="GEN,MOD,EXTERN":REM*****13
10601 Y5$="EM,":GOSUB16010
10602 IFX(7)<>2THEN10605
10603 IFY>12THEN14950
10604 GOTO10606
10605 IFY>100THEN14950
10606 Y5$="AZ"+MID$(STR$(Y),2,8)+",":GOSUB16010:RETURN
10650 Y1$="MOD,INT,ON/OFF":REM*****14
10651 IFY=1THENY5$="AM,":GOSUB16010:RETURN
10652 IFY=0THENY5$="EM,":GOSUB16010:RETURN
10653 GOTO14950
10700 Y1$="-----":REM*****15
10701 RETURN
10750 Y1$="GEN,AF-SETTING":REM*****16
10751 IFY=0THEN10753
10752 IFY<.0090RY>25THENGOTO14950
10753 Y5$="AQ"+MID$(STR$(Y),2,8)+",":GOSUB16010:RETURN
10800 Y1$="GEN,AF-LEVEL":REM*****17
10801 IFY<.00RY>4995THENGOTO14950
10802 Y5$="AQ"+MID$(STR$(Y),2,8)+",":GOSUB16010:RETURN
10850 Y1$="CCITT ON/OFF":REM*****18
10851 IFY=1THENY5$="EC,":GOSUB16010:RETURN
10852 IFY=0THENY5$="DC,":GOSUB16010:RETURN
10853 GOTO14950
10900 Y1$="TONE MODE DEFIN,":REM*****19
10902 IFY$="Z"THENY5$="B08":GOSUB16010:RETURN
10904 IFY$="C"THENY5$="B09":GOSUB16010:RETURN
10906 GOTO14950
10908 RETURN
10950 Y1$="CONTR,LINES":REM*****20
10951 IFY1>90RY1<1THENGOTO14950
10952 Y5$="EF"+RIGHT$(STR$(Y1),1)+RIGHT$(STR$(Y),1)+",":GOSUB16010:RETURN
11000 Y1$="BCD-LINES":REM*****21
11001 IFLEN(Y$)<10RLEN(Y$)>4THENGOTO14950
11002 IFLEFT$(Y$,1)=" "THENY$=RIGHT$(Y$,LEN(Y$)-1):GOTO11002
11003 Y5$="EA"+RIGHT$("00"+Y$,3)+",":GOSUB16010:RETURN
11050 Y1$="CHANNEL-SELECT":REM*****22
11051 X(1)=X(1)+X(3)*(Y-X(2))/1000:X(2)=Y:X(6)=X(1)-X(4)
11052 Y$=STR$(Y):GOTO11000
11100 Y1$="NGPU CURRENT-LIMIT":REM***23
11101 IFY<.00RY>9.99THENGOTO14950
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11050 Y1#="CHANNEL-SELECT"; REM*****22
11051 X(1)=X(1)+X(3)*(Y-X(2))/1000; X(2)=Y; X(6)=X(1)-X(4)
11052 Y#="STR$(Y); GOTO11000
11100 Y1#="NGPU CURRENT-LIMIT"; REM***23
11101 IFY<0ORY>9.99THENGOTO14950
11102 Y=INT(Y*100); X(11)=10; IFY<100THEN11104
11103 Y5#="00R"+RIGHT$(STR$(Y), LEN(STR$(Y))-1)+"A"; GOTO11107
11104 Y=Y*10; X(11)=1; IFY<100THEN11106
11105 Y5#="01R"+RIGHT$(STR$(Y), LEN(STR$(Y))-1)+"A"; GOTO11107
11106 Y=Y*10; X(11)=0.1; Y5#="02R"+STR$(Y)+"A"
11107 IECCOUTNGPU, Y5#; RETURN
11150 Y1#="NGPU VOLTAGE-SET. "; REM***24
11151 IFY<0.1ORY>70THENGOTO14950
11152 Y5#="00"+RIGHT$(STR$(INT(Y*10+.5)), LEN(STR$(INT(Y*10+.5)))-1)
11153 Y5#=RIGHT$(Y5#, 3)+"V"; IECCOUT NGPU, Y5#; RETURN
11154 RETURN
11200 Y1#="-----"; REM*****25
11201 RETURN
11250 Y1#="-----"; REM*****26
11251 RETURN
11300 Y1#="AF-FREQU. MEAS. "; REM*****27
11301 IFYS#="P" THENY3#="AP"; GOTO11312
11304 IFYE<>0 AND YE<>1 THEN YE=0
11306 ONYE+1GOTO11300, 11320
11308 Y3#="AP1"
11312 Y5#=Y3#+". "; GOSUB16010; GOSUB16000
11313 Y=(INT(1000*VAL(MID$(Y5#, 3, 9))+.5))/1000; IFY3>0THENGOSUB14250
11314 IFY3>0THEN11312
11315 IFLEFT$(Y5#, 2)=LEFT$(Y3#, 2) THENRETURN
11316 GOTO14950
11320 Y3#="AP, 1"
11322 Y5#=Y3#+". "; GOSUB16010; IFY3>0THENGOSUB14250
11323 GOSUB16000; Y=(INT(100*VAL(MID$(Y5#, 3, 9))))/1000; IFY3>0THEN11322
11324 IFLEFT$(Y5#, 2)=LEFT$(Y3#, 2) THENNNRETURN
11325 GOTO14950
11350 Y1#="AF-LEVEL-MEAS. "; REM*****28
11351 Y5#="AX. "; GOSUB16010; IFY3>0THENGOSUB14250
11352 GOSUB16000; Y=(INT(10000*VAL(MID$(Y5#, 3, 9))))/10; IFY3>0THEN11351
11353 IFLEFT$(Y5#, 2)="AX" THENRETURN
11354 GOTO14950
11400 Y1#="DIST. AT 0.3 KHZ"; REM*****29
11402 YE=1; GOSUB11450
11404 RETURN
11450 Y1#="AF DISTORTION"; REM*****30
11451 IFYE=0 THENYE=3
11452 ONYEGOTO11454, 11456, 11458
11454 YE=0; Y3#="ED"; GOTO11312
11456 IFYS#="A" THEN YE=0; Y3#="EG"; GOTO11312
11457 GOTO14950
11458 YE=0; Y3#="EE"; GOTO11312
11460 GOTO14950
11500 Y1#="RF-PROBE"; REM*****31
11502 ONYEGOTO11504, 11520
11504 YE=0; Y5#="FL1"; GOSUB16010; IFY3>0THENGOSUB14250
11506 GOSUB16000; Y=1000*VAL(MID$(Y5#, 3, 9))
11508 IFY3>0THEN11504
11510 IFLEFT$(Y5#, 2)="FL" THENRETURN
11512 GOTO14950
11520 YE=0; Y5#="FL0"; GOSUB16010; IFY3>0THENGOSUB14250
11522 GOSUB16000; Y=VAL(MID$(Y5#, 3, 9))
11524 IFY3>0THEN11520
11526 IFLEFT$(Y5#, 2)="FL" THENRETURN
11528 GOTO14950
11550 Y1#="AF-FREQU. RESPONSE"; REM***32
11551 GOSUB11554; Y=1; GOSUB10750 GOSUB11350; Y(0)=Y
11552 FORY7=1TOY9; Y=X(20+Y7); GOSUB10750; GOSUB11350
11553 Y(Y7)=(INT(200*LOG(Y/Y(0))/LOG(10)))/10; NEXTY7; Y=1; GOTO10750
11554 Y9=1; GOTO11559
11555 FORY=1TOLEN(Y#)
11556 IF MID$(Y#, Y, 1)="." THEN11558
```

```
11550 FOR I=1 TO LEN(Y#)
11554 IF MID$(Y#,I,1)="," THEN 11558
11557 NEXT I: RETURN
11558 Y# = RIGHT$(Y#, LEN(Y#) - I): Y9 = Y9 + 1
11559 X(20 + Y9) = VAL(Y#): GOTO 11555
11600 Y1# = "TONE SEQ. GEN.": REM*****33
11601 IF LEN(Y#) > 8 THEN 14950
11602 Y2# = Y#
11603 IF Y# = 1 THEN 11620
11604 Y5# = "B07": GOSUB 16010
11605 Y5# = "A0" + Y2#: GOSUB 16010
11606 Y5# = "B010": GOSUB 16010
11608 Y5# = "B06": GOSUB 16010
11610 RETURN
11620 YE = 0: GOSUB 11950
11622 Y = 0: GOSUB 10750
11626 Y = X(6): GOSUB 10350
11628 Y5# = "B0.ZZ0": GOSUB 16010
11630 Y = X(1): GOSUB 10350
11632 Y5# = "B0105": GOSUB 16010
11634 Y# = Y2#: GOSUB 11604
11636 GOSUB 12000: IF Y > .1 THEN 11636
11638 GOSUB 11650: Y2# = Y#
11640 Y5# = "B0106": GOSUB 16010
11641 GOSUB 13050
11642 Y = 1: GOSUB 10750: Y = 0: GOSUB 10650
11643 Y = 1: GOSUB 10650: GOSUB 10450: GOSUB 11350
11644 Y# = Y2#: RETURN
11650 Y1# = "TONE-SEQ. DEC.": REM*****34
11651 Y5# = "B011": GOSUB 16010
11652 GOSUB 16000
11654 IF LEFT$(Y5#, 2) <> "TD" THEN 14950
11656 Y#(5) = ""
11658 FOR Y1 = 3 TO 10
11660 Y#(4) = MID$(Y5#, Y1, 1)
11662 IF ASC(Y#(4)) > 57 THEN Y#(4) = CHR$(ASC(Y#(4)) + 7)
11663 IF Y#(4) = "F" THEN Y#(4) = " "
11664 Y#(5) = Y#(5) + Y#(4)
11666 NEXT Y1
11668 Y# = Y#(5)
11690 RETURN
11700 Y1# = "DC-VOLT. MEAS.": REM*****35
11701 Y3# = "EY": GOTO 11312
11750 Y1# = "DC-CURRENT-MEAS.": REM*****36
11751 Y3# = "DY Y Y": GOTO 11312
11800 Y1# = "NGFU CURRENT-MEAS.": REM***37
11801 GOSUB 11700
11802 Y = X(11) * Y * 10: RETURN
11850 Y1# = "AF-LEVEL MEAN-VAL.": REM***38
11851 Y1 = 0
211852 FOR Y2 = 1 TO Y: Y5# = "AX.": GOSUB 16010: GOSUB 16000: Y1 = Y1 + VAL(MID$(Y5#, 3, 9))
11853 Y = (INT(100000 * Y1 / Y)) / 100: RETURN
11900 Y1# = "UNIV. ADJUSTMENT": REM*****39
11903 YF = 0: Y1 = Y1 / 100: Y9 = 0: Y8 = Y6 / 2
11906 Y = Y6: R = Y4: GOSUB 9000: R = Y2: GOSUB 9000: Y7 = Y
11907 IF ABS(Y / Y0 - 1) < Y1 THEN Y1 = Y6: RETURN
11908 IF Y7 = Y9 OR Y6 = Y8 THEN YF = YF + 1: GOTO 11911
11909 Y5 = (ABS(Y5)) * SGN((Y7 - Y9) / (Y6 - Y8))
11911 IF YF = 5 THEN Y1 = Y6: RETURN
11912 IF Y7 > Y0 AND Y9 > Y0 THEN 11921
11915 IF Y7 < Y0 AND Y9 < Y0 THEN 11921
11918 Y5 = Y5 / 2
11921 Y8 = Y6: Y9 = Y7: Y6 = INT(1E4 * (Y8 + Y5 * SGN(Y0 - Y9)) + .5) / 1E4: GOTO 11906
11950 Y1# = "TRANSMITTER-TEST": REM*****40
11951 Y5# = "AT.": GOSUB 16010: RETURN
12000 Y1# = "RF POWER": REM*****41
12001 Y3# = "AW": GOTO 11312
12050 Y1# = "RF FREQU. ERROR": REM*****42
12051 Y5# = "AT.": GOSUB 16010: GOSUB 16000
12052 IF LEFT$(Y5#, 2) = "AF" THEN Y = INT(.1 * (1E7 * (VAL(MID$(Y5#, 3, 15)) - X(6)) + 5))
```

```
12253 GOTO114750
12100 Y1#="POS. MOD. ":REM*****43
12101 Y3#="BF":GOTO11312
12150 Y1#="NEG. MOD. ":REM*****44
12151 Y3#="BH":GOTO11312
12200 Y1#="-----":REM*****45
12201 RETURN
12250 Y1#="-----":REM*****46
12251 RETURN
12300 Y1#="RESIDUAL-MOD. ":REM*****47
12301 Y=0:GOSUB10000:GOSUB12100:RETURN
12350 Y1#="MOD. SENSITIVITY":REM*****48
12353 Y8=100:Y6=X(8)*Y/100:IFYA=0THENY=1:GOTO12355
12354 Y=YA
12355 GOSUB10750
12356 Y=Y8:GOSUB10000:GOSUB12100:IFABS(Y-Y6)/Y6<.05THEN12362
12359 Y8=Y8*Y6/(Y+.01):GOTO12356
12362 Y=INT(Y8*10)/10:RETURN
12400 Y1#="TX-MOD. FREQU. RESP. ":REM****49
12401 GOSUB11554:Y=20:YA=1:GOSUB12350:GOSUB12100:Y(0)=Y
12402 FORY7=1TOY9:Y=X(20+Y7):GOSUB10750:GOSUB12100
12403 Y(Y7)=(INT(200*LOG(Y/Y(0))/LOG(10)))/10:NEXTY7:Y=1:GOTO10750
12450 Y1#="-----":REM*****50
12451 RETURN
12500 Y1#="MOD. DISTORTION":REM*****51
12502 IFYE=0THENYE=1:GOTO12510
12505 IFYE=2 AND Y8#<>"A"THEN14950
12510 ONYEGOTO12515,12525,12535
12515 YE=0:YA=.3:GOSUB12350
12520 GOTO11454
12525 YE=0:YA=.5:GOSUB12350
12530 GOTO11456
12535 YE=0:YA=1:GOSUB12350
12540 GOTO11458
12550 Y1#="MOD. DIST. 1 KHZ ":REM*****52
12552 YE=3:GOSUB12500
12554 YE=0:RETURN
12600 Y1#="S/N TRANSM. ":REM*****53
12601 Y5#="BB. ":GOSUB16010:GOSUB16000
12602 IF LEFT$(Y5$,2)="XB" THENY=(INT(10*VAL(MID$(Y5$,3,15))))/10:RETURN
12603 GOTO14950
12650 Y1#="RF FREQU. METER":REM*****54
12651 ONYEGOTO12652,12653
12652 YE=0:Y5#="AF. ":GOSUB16010:GOSUB16000:GOTO12654
12653 YE=0:Y5#="AT. ":GOSUB16010:GOSUB16000
12654 IF LEFT$(Y5$,2)="AF"THENY=VAL(MID$(Y5$,3,15)):RETURN
12655 GOTO14950
12700 Y1#="MOD. FREQU. ":REM*****55
12701 IFYS#="P"THENY3#="BF. ":GOSUB16010:Y3#="AU":GOTO11312
12702 IFYE<>0 AND YE<>1 THEN YE=0
12703 ONYE+1GOTO12708,12720
12708 Y3#="AU1":GOTO11312
12720 Y3#="AU.1":GOTO11322
12750 Y1#="BEAT FREQ. ":REM*****56
12752 Y1=YE:GOSUB12650:YB=SGN(Y-Y0)
12754 Y=Y0:GOSUB10350
12756 ONY1GOTO12758,12760
12758 YE=0:Y4#="AF. ":GOTO12762
12760 YE=0:Y4#="AT. "
12762 Y5#=Y4#+ "AV. ":GOSUB16010
12763 Y5#=Y4#+ "AV. ":GO JB16010
12764 GOSUB16000:Y=YB*INT(VAL(MID$(Y5$,3,9)))
12766 IFLEFT$(Y5$,2)="AX"THENRETURN
12768 GOTO14950
12800 Y1#="-----":REM*****57
12801 RETURN
12850 Y1#="ADJ. CHAN. POWER DB":REM****58
12851 GOSUB12921
12852 ONY9GOTO12853,12854
12853 GOSUB12860
12854 GOSUB12867:GOSUB12870
```

```
12780 Y1#="-----":REM*****57
12801 RETURN
12850 Y1#="ADJ.CHAN.POWER DB":REM****58
12851 GOSUB12921
12852 ONY9GOTO12853,12854
12853 GOSUB12860
12854 GOSUB12907:GOSUB12863
12855 Y3#="AN"+Y4#:GOSUB11312:Y2=Y
12856 Y5#="B0118.":GOSUB16010
12857 ONY9GOTO12859,12858
12858 GOSUB11950:Y=Y2:RETURN
12859 GOSUB11950:Y=60:YA=1:GOSUB12350:Y=Y2:RETURN
12860 Y=60:YA=1,25:GOSUB12350:Y=Y*10
12861 IFY>4995THENY=4995
12862 GOSUB10800:RETURN
12863 Y5#="AD"+MID$(STR$(X(3)),2,8)+"":GOSUB16010:Y=X(6):GOSUB10350:RE
12900 Y1#="ADJ.CHAN.POWER UW":REM****59
12901 GOSUB12921
12902 ONY9GOTO12903,12904
12903 GOSUB12860
12904 GOSUB12907:GOSUB12863
12905 Y3#="BZ"+Y4#:GOSUB11312:Y2=Y
12906 GOTO12856
12907 IFY9=1THENRETURN
12908 IFY9=2THENY5#="B0117.":GOSUB16010
12909 ON((YSZAND03)+1)GOTO12910,12913,12915
12910 IFYE=0THENGOSUB12917
12911 IFYE=1THENGOSUB12919
12912 RETURN
12913 IFYE=1THENGOSUB12919
12914 RETURN
12915 IFYE=0THENGOSUB12917
12916 RETURN
12917 Y5#="B0118.AD10.":GOSUB16010:Y5#="AN.":GOSUB16010
12918 YSZ=YSZAND252:YSZ=YSZOR1:Y5#="B0117.":GOSUB16010:RETURN
12919 Y5#="B0118.AD25.":GOSUB16010:Y5#="AN.":GOSUB16010
12920 YSZ=YSZAND252:YSZ=YSZOR2:Y5#="B0117.":GOSUB16010:RETURN
12921 IFY=1THENY4#=""
12922 IFY=-1THENY4#="-"
12923 IF(X(3)=10ORX(3)=12,50RX(3)=20ORX(3)=25)AND(Y=10RY=-1)THENY9=1:RE
12924 IFYS#<>"P"THENY9=2:RETURN
12925 GOTO14950
12950 Y1#="-----":REM*****60
12951 RETURN
13000 Y1#="-----":REM*****61
13001 RETURN
13050 Y1#="RECEIVER-TEST":REM*****62
13051 Y5#="AR.":GOSUB16010:Y=X(1):GOTO10350
13100 Y1#="-----":REM*****63
13101 RETURN
13150 Y1#="RX-S/N-MEAS.":REM*****64
13151 Y=Y*X(8)/100:GOSUB10550
13152 Y=1:GOSUB10750
13153 Y5#="BB.":GOSUB16010:GOSUB16000
13154 IF LEFT$(Y5#,2)="BB"THENY=(INT(10*VAL(MID$(Y5#,3,9))))/10:RETURN
13155 GOTO14950
13200 Y1#="RX-SINAD-MEAS.":REM*****65
13210 Y=Y*X(8)/100:GOSUB10550
13212 Y=1:GOSUB10750
13214 Y5#="AS.":GOSUB16010
13215 GOSUB16000
13216 IF LEFT$(Y5#,2)="AS"THENY=(INT(10*VAL(MID$(Y5#,3,9))))/10:RETURN
13218 GOTO14950
13250 Y1#="RX-SENS. F.S/N":REM*****66
13251 Y7=Y:Y=.6*X(8):GOSUB10550
13252 Y5#="BB"+MID$(STR$(Y7),2,8)+"":GOSUB16010:GOSUB16000
13253 IFLEFT$(Y5#,2)="BB"THEN13305
13254 GOTO14950
13300 Y1#="RX-SENS. F. SINAD":REM*****67
13301 Y7=Y:Y=.4*X(8):GOSUB10550
```

```
13215 GOSUB16000
13216 IF LEFT$(Y5$,2)="AS" THEN Y=(INT(10*VAL(MID$(Y5$,3,9))))/10:RETURN
13218 GOTO14950
13250 Y1$="RX-SENS. F.S/N":REM*****66
13251 Y7=Y:Y=,6*X(8):GOSUB10550
13252 Y5$="BB"+MID$(STR$(Y7),2,8)+",":GOSUB16010:GOSUB16000
13253 IF LEFT$(Y5$,2)="BB" THEN 13305
13254 GOTO14950
13300 Y1$="RX-SENS. F. SINAD":REM*****67
13301 Y7=Y:Y=,6*X(8):GOSUB10550
13302 IF Y5$<>"A" THEN 13305
13303 IF YE=1 THEN Y5$="B04,":GOSUB16010
13304 IF YE=0 THEN Y5$="B03,":GOSUB16010
13305 YE=0
13312 Y5$="AS"+MID$(STR$(Y7),2,8)+",":GOSUB16010:GOSUB16000
13313 IF LEFT$(Y5$,2)="AS" THEN 13315
13314 GOTO14950
13315 Y=VAL(LEFT$(STR$(223*10^((VAL(MID$(Y5$,3,8))/20)+3)),5)):RETURN
13350 Y1$="QUIETING-SENS.":REM*****68
13351 Y=0:GOSUB10450:GOSUB11350:Y2=Y/10:Y=1:GOSUB10450:Y=0:GOSUB10550:Y1
13352 Y=Y1:GOSUB10400:GOSUB11350:IF ABS((Y-Y2)/Y2)<.2 THEN 13354
13353 Y1=Y1*(1+Y/Y2)/2:GOTO13352
13354 Y=(INT(100*Y1))/100:RETURN
13400 Y1$="RX-BANDWIDTH 6DB":REM*****69
13401 YC=0:YD=0:Y4=,0064:Y7=0,2:Y=0:GOSUB10550:Y=0:GOSUB10450:Y=10:GOSUB
13402 Y888=Y/3,16:Y=1:GOSUB10450
13403 Y=Y7:GOSUB10400:Y=4:GOSUB11850
13404 IF ABS(Y-Y8)<.2*Y8 THEN Y8=Y:GOTO13406
13405 Y7=Y7*(1+Y/Y8)/2:GOTO13403
13406 Y=Y7*2:GOSUB10400:Y=4:GOSUB11850:Y8=Y:GOSUB13410
13407 Y5=Y6:Y4=-Y4:GOSUB13410
13408 Y=X(1):GOSUB10350
13409 Y=(INT((Y5-Y6)*10000))/10:Y1=(INT(((Y5+Y6)/2)-X(1))*10000))/10:RE
13410 Y6=X(1):Y9=1
13411 Y6=Y6+Y4/Y9:IFY6=YC THEN 13417
13412 YC=YD:YD=Y6:Y=Y6:GOSUB10350:Y=4:GOSUB11850
13413 IF ABS(Y-Y8)<.1*Y8 THEN RETURN
13414 IF ABS(Y8-Y)>ABS(Y-Y8) THEN Y9=Y9/2
13415 IF ABS(Y9)=64 THEN Y9=32
13416 Y9=SGN(Y8-Y)*ABS(Y9*2):Y8=Y:GOTO13411
13417 Y6=(Y6+YD)/2:RETURN
13450 Y1$="-----":REM*****70
13451 RETURN
13500 Y1$="MOD. ACC. BANDWIDTH":REM*****71
13501 Y=12:GOSUB13300:Y=2*Y:GOSUB10400:Y1=60:YH=40
13502 Y=Y1:GOSUB13200:YK=ABS(Y-12):IFYK<7 THEN YH=80:IFYK<1.5 THEN 13504
13503 Y1=Y1*10^((Y-12)/YH):GOTO13502
13504 Y=60:GOSUB13200:Y=(INT(Y1*X(8)))/50:RETURN
13550 Y1$="SQUELCH ":REM*****72
13551 Y1=,22
13552 Y1=Y1*1,5:Y=Y1:GOSUB10400:GOSUB11350:IFY<50 THEN 13552
13553 Y=-1:GOSUB10500:GOSUB10500:Y1=Y1*,977:GOSUB11350:IFY>50 THEN 13553
13554 Y2=Y1:Y1=(INT(Y1*100))/100
13555 Y2=Y2/.,977:Y=Y2:GOSUB10400:GOSUB11350:IFY<50 THEN 13555
13556 Y2=(INT(Y2*100))/100:Y=(INT(200*LOG(Y2/Y1)/LOG(10)))/10:RETURN
13600 Y1$="-----":REM*****73
13601 GOTO13550
13650 Y1$="-----":REM*****74
13651 RETURN
13700 Y1$="-----":REM*****75
13701 RETURN
13750 Y1$="RX. MOD. FREQU. RESP. ":REM*****76
13751 GOSUB11554:Y=1:GOSUB10750
13752 Y=,2*X(8):GOSUB10550:GOSUB11350:Y(0)=Y
13753 FOR Y8=1 TO Y9:Y=X(20+Y8):GOSUB10750:GOSUB11350
13754 Y(Y8)=(INT(200*LOG(Y/Y(0))/LOG(10)))/10:NEXT Y8
13755 Y=1:GOSUB10750:RETURN
13800 Y1$="DUPLEXER-CHECK":REM*****77
13801 Y=12:GOSUB13300:Y2=Y:GOSUB11950:Y=X(1):GOSUB10350:Y=12:GOSUB13300
13802 Y4=Y:GOSUB13050:Y=(INT(200*LOG(Y4/Y2)/LOG(10)))/10:RETURN
```



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14354 PRINT#99,"TEXT ON PRINTER";REM*****88
14351 OPEN99,230;Y1=6;IFY=1THENY#=CHR$(15)+Y#+CHR$(13)+CHR$(14)
14352 IFY=2THENY#=CHR$(27)+CHR$(14)+Y#+CHR$(13)+CHR$(27)+CHR$(15);Y1=3
14353 IFY=3THENY#=""
14354 PRINT#99,SPC(Y1);Y#;CLOSE99;RETURN
14400 Y1#="OUTPUT ON PRINTER";REM*****89
14401 OPEN99,230;PRINT#99,SPC(6);Y#;SPC(50-LEN(Y#));Y;CLOSE99;RETURN
14450 Y1#="LIMIT-COMP, PRINTER";REM***90
14451 IFY<Y10RY>Y2THEN14453
14452 GOTO14400
14453 OPEN99,230;PRINT#99,SPC(6);Y#;SPC(54-LEN(Y#));"* ";Y;CLOSE99;RETU
14500 Y1#="LIMIT-COMP, SCREEN";REM*****91
14501 IFY<Y10RY>Y2THEN14503
14502 PRINTY#;TAB(33)Y;RETURN
14503 PRINTY#;TAB(28)"***";TAB(33)Y;RETURN
14550 Y1#="DISPL, FREQ, RESP, ";REM*****92
14551 Y8=,5;Y5=99;Y6=-99;FORY1=1TOY9;IFY5>Y(Y1)THENY5=Y(Y1)
14552 IFY(Y1)>Y6THENY6=Y(Y1)
14553 NEXT;Y6=Y6-Y5;IFY6>2THENY8=1;IFY6>4THENY8=2;IFY6>8THENY8=5
14554 IFY6>20THENY8=10
14555 Y7=Y8*INT(Y5/Y8)
14556 PRINT"LG DB
14557 FORY1=1TO5;PRINT"      4###|###|###|";NEXT
14558 PRINT"      4+-----+###"
14559 PRINT"KHZ   0.1      0.3      1      3      10
14560 PRINT"###";Y7+5*Y8;PRINT"###";Y7+4*Y8;PRINT"###";Y7+3*Y8
14561 PRINT"###";Y7+2*Y8;PRINT"###";Y7+Y8;PRINT"###";Y7
14562 FORY1=1TOY9;PRINT"###";FORY2=1TO21-INT((Y(Y1)-Y7)*4/Y8+,5);PRINT"###"
14563 NEXTY2;PRINTTAB(22+INT(.5+16*LOG(X(20+Y1))/LOG(10)))"*";NEXTY1;RE
14600 Y1#="HARD-COPY";REM*****93
14601 OPEN99,230;PRINT#99,CHR$(30);CLOSE99;SYS37906
14603 OPEN99,230;PRINT#99,CHR$(27);CHR$(10);CLOSE99
14605 OPEN99,230;PRINT#99,CHR$(31);PRINT#99;CLOSE99;RETURN
14650 Y1#="-----";REM*****94
14651 RETURN
14700 Y1#="-----";REM*****95
14701 RETURN
14750 Y1#="-----";REM*****96
14751 RETURN
14800 Y1#="-----";REM*****97
14801 RETURN
14850 Y1#="-----";REM*****98
14851 RETURN
14900 Y1#="-----";REM*****99
14901 RETURN
14950 REM***ERROR-MESSAGE*****100
14951 PRINT;POKE158,0
14952 PRINT"ERROR AT: ";Y1#;" FROM R=";R;HOLD300
14953 PRINT"ERROR AT: ";Y1#;" FROM R=";R;HOLD300
14954 GETY#;IFY#=""THEN14952
14955 PRINT" ";SPC(40);" ";Y2#="ERROR"
14960 PRINT;SYS(903);RETURN
16000 IECINSMFP,Y5#;RETURN
16010 IECOUTSMFP,Y5#;RETURN
READY,

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```

10 REM*****
20 REM*
30 REM* SMFPZ DEMO PROGRAM USER #1/2 *
40 REM* ----- *
50 REM* ORIGINATOR: BAYRHUBER TBF *
60 REM* MODIFIED : VENZIN MANETSCH *
70 REM* DATE : 10.MAI.1986/MK III *
80 REM*
90 REM*****
100 Y1$="SMFPZ"
110 R=1:GOSUB 9000
120 R=6:Y=2:GOSUB9000 :REM FM
130 R=7:Y=3.5:GOSUB9000 :REM MAX.MOD.
140 Y1=2:Y=0:R=20:GOSUB9000
150 Y1=3:Y=0:R=20:GOSUB9000
160 Y1=4:Y=0:R=20:GOSUB9000
170 REM*****
180 REM*
190 REM* S E N D E R *
200 REM* ===== *
210 REM* *
220 REM*****
230 :
240 GOSUB 3320
250 PRINT "G"
260 PRINT:PRINT:PRINT
270 PRINT"GERAETEDATEN"
280 PRINT"-----" 39
290 PRINT:PRINT:PRINT:PRINT
300 INPUT"BETRIEBSSPANNUNG IN VOLT =";B
310 Y3=2:Y1=(B-0.1):Y2=(B+0.1):R=35:GOSUB 9000
320 PRINT
330 R=35:GOSUB 9000
340 IF Y<Y1 THEN 310
350 IF Y>Y2 THEN 310
360 PRINT"BETRIEBSSPANNUNG = "TAB(25) Y "VOLT"
370 PRINT
380 INPUT"ANZAHL KANAELE ";K$
390 IF ASC(K$)> 47 THEN 400
400 IF ASC(K$)< 58 THEN 430
410 POKE 198,0:POKE 197,130:POKE 196,560 AND 255
420 GOTO 380
430 K=ASC(K$)-48:IF K<1 THEN GOTO 380
440 Y1=2:Y=1:R=20:GOSUB9000
450 FOR L=1 TO K STEP 1
460 PRINT"G"
470 PRINT:PRINT:PRINT
480 PRINT"SENDERTEST"
490 PRINT"-----" 39
500 PRINT:PRINT:PRINT:PRINT
510 PRINT
520 PRINT
530 INPUT"EINSTELLEN KANAL ";K$(L)
540 IF ASC(K$(L))> 47 THEN 550
550 IF ASC(K$(L))< 58 THEN 580
560 POKE 198,0:POKE 197,129 :POKE 196,480 AND 255
570 GOTO 530
580 PRINT: K(L)=ASC(K$(L))-48
590 PRINT
600 R=41:GOSUB9000:IF Y>0.1THEN GOTO 640
610 R=40:GOSUB 9000
620 Y$="SENDER HOCHTASTEN "
630 R=87:GOSUB9000
640 R=54:YE=2:GOSUB9000
650 IFY<.4THEN680
660 PRINT"MESSUNG TX FREQUENZ = ";Y;" MHZ"
670 X(6)=INT(200*Y+.5)/200

```