# Scatter Radar Setup for GRAVES 143 050MHz

Výstupní úroveň z FUNcube Dongle Pro plus je 100%, nastaven jako výchozí zařízení

Napájení 12V zdroj s lineárním regulátorem

Kmitočet přijímače 143 039 800Hz ( + Nastavit Freq correction – popis níže)

SDRSharp.exe zde se nastaví kmitočet

Nastavit Freq correction 3.6 = jemné doladění FCDPP aby byl naladěný na požadovaný kmitočet

Zisk 0dB s FCDPP u antény, +10+15dB s FCDPP u PC (koax 9m)



Freq correction 3.6 -> Current frequency 143 040 314– vždy kontrolovat správné nastavení kmitočtu

programem FCHID2.002.exe od Howarda (FCDPP www)



zobrazení ve Spectrum LAB cca 10200Hz (nastavení vfo nemá na zobrazení vliv)

rozah zobrazení -70 až +30dB

barevné spektrum gram







; Exported "Conditional Actions" for Spectrum Lab

if( initialising ) then s0="vyskov":s1="C:\\capture\\":s2="C:\\capture\_audio\\":s3="C:\\capture\\":C=0:E=0:rec.trigger=0:I=0:t2=0:H=0:m1=999

if( always ) then n=noise(9500,10500):f=peak\_f(10100,10300):a=avrg(f-100,f+100):m=round(n-a+10):t1=str("YYYYMMDDhh",now):L=str("hh",now):h1=str("mmss",now):REM Periodical actions

if( a>(n+6.3) ) then C=C+1:timer0.restart(3.4):H=H+1:REM Detection was done 7-standatdni citlivost, cim mensi tim citlivejsi

if( timer0.expired(1) ) then I=1:REM End of meteor

if( val(h1,"####")=5930 ) then t2=t2+1

if( t2=1 ) then fopen4(s1+"RMOB-"+str("YYYYMM",now)+".dat",a):fp4(t1,",",L,",",E):fclose4:sp.print("Last hour=",E):C=0:E=0:REM End of hour

if( val(h1,"####")=5940 ) then t2=0

if( m<m1 ) then m1=m

if( H=1 ) then H=2:n1=round(n):f1=f:sp.print(" t+"+str("ss",time)):REM Print time of begin

if( C=50 ) then rec.filename=s2+"bolid\_"+s0+"\_"+str("YMMDD\_hhmmss",now)+".wav":rec.trigger=1:REM Record audio if duration is 2,5s

if( I=1 ) then I=2:fopen1(s3+"meteors\_"+s0+".dat",a):fp1(t1,h1,", nb=",n1,", f=",f1,", mag=",m1,", dur=",C,", end=",str("mmss",now)):fclose1:REM Record meteor as text

if( I=2 ) then I=0:H=0:C=0:E=E+1:sp.print(" "+str(E)+" nb"+str(n1)+" f"+str(f1)+" mag"+str(m1)):m1=999:rec.trigger=0:REM Print end of meteor

Configuration file

[ABOUT]

Info1=Configuration file for Spectrum Lab

Info2=Compilation date Nov 16 2012

MenuText=MP s grafem poslední

InfoText=

[GENERAL]

UseRelativePaths=1

LockWindows=0

EnableDDE=0

DebugFlags=0

PrefRxAudioCenterFreq=-1

PrefTxAudioCenterFreq=-1

FrequencyListFile=frequencies\default.txt

PlainFreqInputFields=0

[MAIN\_WINDOW]

Left=77

Top=0

Width=1024

Height=724

Visible=-1

FormStyle=-1

ShowWindowsInTaskBar=0

MinimizeToSystemTray=0

BottomCtrls=0

LeftCtrls=1

LeftCtrlWidth=128

LeftCtrlVSplit=190

ContrastSliderUsage=0

[CircuitForm]

Left=795

Top=184

Width=-1

Height=-1

Visible=0

FormStyle=0

[GeneratorForm]

Left=-1

Top=-1

Width=-1

Height=-1

Visible=0

FormStyle=-1

FSliderMin=0

FSliderMax=5512

[FilterControlForm]

Left=299

Top=405

Width=520

Height=344

Visible=0

FormStyle=0

FFP\_VSplit=32

FftEditSel=0

FftLogScale=1

FftGraphFmin=-1500

FftGraphFmax=1500

[TerminalForm]

Left=0

Top=0

Width=535

Height=387

Visible=0

FormStyle=-1

TuWidth=117

TuHeight=105

TxHeight=121

AutoLineBreak=0

[TerminalForm2]

Left=-1

Top=-1

Width=-1

Height=-1

Visible=0

FormStyle=-1

TuWidth=-1

TuHeight=-1

TxHeight=-1

AutoLineBreak=0

[TerminalForm3]

Left=-1

Top=-1

Width=-1

Height=-1

Visible=0

FormStyle=-1

TuWidth=-1

TuHeight=-1

TxHeight=-1

AutoLineBreak=0

[TerminalForm4]

Left=-1

Top=-1

Width=-1

Height=-1

Visible=0

FormStyle=-1

TuWidth=-1

TuHeight=-1

TxHeight=-1

AutoLineBreak=0

[CONFIG\_WINDOW]

Left=628

Top=192

Width=-1

Height=-1

Visible=-1

FormStyle=0

[PaletteEditorForm]

Left=-1

Top=-1

Width=-1

Height=-1

Visible=-1

FormStyle=-1

[DebugForm]

Left=-1

Top=-1

Width=-1

Height=-1

Visible=-1

FormStyle=-1

ActivePage=0

[PeriodicActionForm]

Left=0

Top=224

Width=1280

Height=410

Visible=0

FormStyle=3

[DCF77Form]

Left=-1

Top=-1

Width=-1

Height=-1

Visible=-1

FormStyle=-1

[SecondSpectrogram]

Left=196

Top=134

Width=561

Height=367

Visible=0

FormStyle=-1

ControlsVisible=1

[CommandForm]

Left=-1

Top=-1

Width=-1

Height=-1

Visible=0

FormStyle=-1

VSplit1=137

EditorFindText=

[InputMonitor]

Left=84

Top=40

Width=166

Height=142

Visible=0

FormStyle=3

YMagnify=1

XMagnify=1

Trigger=1

[OutputMonitor]

Left=84

Top=180

Width=166

Height=142

Visible=0

FormStyle=3

YMagnify=1

XMagnify=1

Trigger=1

[LAST\_SESSION]

PlaylistName=

AnalysedFileName=test1.wav

AnalysedFileType=0

LoggingWave=logfile1.wav

[SOUNDCARD]

SampleRate=192000

UseDifferentOutputSR=0

ResampleToNominalOutputSR=0

NominalOutputSampleRate=11025

BitsPerSample=16

SampleRateDivisor=1

ResampleQuality1=1

ExternalAudioOptions=0

AudioInputStreamID=

AudioOutputStreamID=

[AUDIO\_VIA\_IP]

Options=0

RcvFromPort=1024

SendToPort=1024

RcvFromIp=192.168.0.200

SendToIp=192.168.0.200

[AUDIO\_FILE\_IO]

ConsADCactive=0

ConsADCfile=audio.dat

CmdToStartADCfile=SndInput.exe /sr=11025 /ch=1 /chunk=512 /minsize=512

CmdToStopADCfile=SndInput.exe /quit

ProdDACactive=0

MaxServerFileSizeKb=0

ProdDACfile=testaudio

CmdToStartDACfile=

CmdToStopDACfile=

DuplicateAudioForOutput=0

RcvAudioViaCopydata=0

SendAudioViaCopydata=0

SendCopydataTo=

AdcFullScaleInputVoltage=1

AdcInputImpedance=600

[WEB\_STREAMS]

AnalysedStream=

SaveURLHistory=0

URLHistory0=

URLHistory1=

URLHistory2=

URLHistory3=

URLHistory4=

URLHistory5=

URLHistory6=

URLHistory7=

URLHistory8=

URLHistory9=

Options=0

OutputStreamConfig=

OutputStreamReconnTime=30

InputAudioLog=logfiles\stream\_log\_in.ogg

OutputAudioLog=logfiles\stream\_log\_out.ogg

[SDR]

NcoFreqHz=143039800

Options=0

TestToneFreq=0

Left=232

Top=181

Width=334

Height=127

Visible=0

FormStyle=0

[SDR\_IQ]

FilterNr=3

RFgain\_dB=0

IFgain\_dB=24

RefFrequency=198000

FftCompensationFile=

[PERSEUS]

BitstreamNr=0

RFgain\_dB=-10

PreselectorNr=11

RefFrequency=198000

FftCompensationFile=

[SR\_CALIBRATOR]

Enabled=0

Options=0

MeasureOnly=0

TestPulseOutput=0

Algorithm=1

PhasesLockedToGPS=0

ResampleInputMode=0

ConnectTo=1

MinRefAmpl=-80

RefFrequency=15625

RefPeriodicity=0

UpdateCycle=10

CalibBandwidth=1

MaxOffset\_ppm=5

Averages=200

ScopeOpt=0

[FO\_CALIBRATOR]

Enabled=0

ConnectTo=1

MinRefAmpl=-60

RefFrequency=2000

CalibBandwidth=10

MaxFreqOffset=10

Averages=200

[WAVE\_ANALYSIS]

PlayInLoops=0

StopAnalyzerOnEOF=1

ReconnectBrokenStreams=0

PlayUpsampled=1

WaveAnalysisSp=2

WaveAnalysisScMode=0

WaveAnalysisOptions=0

WaveAnalysisNumThreads=1

WaveAnalysisRawDataType=2

WaveAnalysisRawTypeFlags=0

WaveAnalysisRawNChannels=0

WaveAnalysisRawFileSampleRate=48000

[WAVE\_SAVE]

Downsampled=0

SampleRate=4000

BitsPerSample=16

AsComplexPairs=0

CenterFrequency=0

WaveFileFormat=1

WaveSaveFileMode=2

InfoInHeader=1

WriteAuxFile=1

MaxFileSize=1400

Flags=5

FileIndex=0

TrigRecorderFile=..\..\capture\_audio\bolid\_vyskov\_21223\_091553.wav

TrigRecorderFileMode=0

PreTrigSeconds=6

PostTrigSeconds=11

[SpectrumPlayer]

Options=0

LoopMode=0

Gain\_dB=0

FinMin=0

FinMax=3000

FoutMin=0

[SOUND\_THREAD]

StartSoundThread=1

StartSoundInput=1

StartSoundOutput=1

StartSignalGenerator=0

SignalGeneratorUnits=0

StartDigitalFilter=1

DigitalFilterBypass=0

FreeRunningSpeedPcnt=100

StereoProcessing=1

MinimizeLatency=0

ChainBothChannels=0

IQInputSwapChannels=0

IQInputAdjustEnable=0

IQAdjustBalance=0

IQAdjustPhase=0

PrimaryTimeSource=1

ManualAnalysisStartTime=0

[DIGIMODE]

Active=0

DemodSource1=1

ComplexInput=0

ModulatorDest1=3

ModulatorDest2=0

DecoderLogfile=Term1.txt

[MODES]

OperMode=1

Modulation=8

CodesetNr=5

BitEncoding=2

UseDecoderNr=0

BitSyncAlgo=1

DisableFilters=0

SpecialFlags=0

ScopeMode=3

ScopeTrigger=0

ScopeUpdateTime=500

ScopeHorzSecPerDiv=0.1

ScopeHorzPixelPerDiv=20

ScopeHorzOpt=4

ScopeVertOpt=0

AutoSwitch2Rx=0

AutoSwitch2Tx=0

HalfDuplex=1

FlipMainAnalyser=1

BeaconMode=0

[AUDIO\_FREQUENCIES]

fc\_rx=2200

fc\_tx=2200

f\_shift=170

fc\_stepwidth=1

[MODULATION]

symbol\_rate=50

rev\_keying=0

tx\_freq\_multiplier=1

pulse\_shaping=1

shape\_percent=100

output\_level=100

special\_options=0

[DETECTOR]

use\_afc=1

narrow\_afc=0

afc\_tune\_range=100

squelch\_thrsh=25

[SERIAL\_DECODER]

AsyncStartBit=1

AsyncDataBits=8

AsyncParityBit=0

AsyncStopBit=1

AsyncMsbFirst=0

[RX\_CHAR\_DISPLAY]

ChrDisplayMode=0

LinefeedAfterPause=0

UseSlashZero=1

PrintDateOrTime=0

RejectedMessages=

[MODE\_DLL]

name=DemoDll.dll

use\_it=0

[HELL\_FONT]

name=MS Sans Serif

height=-11

style=0

cut\_top=0

[DIGIMODE2]

Active=0

DemodSource1=1

ComplexInput=0

ModulatorDest1=3

ModulatorDest2=0

DecoderLogfile=Term1.txt

[MODES2]

OperMode=1

Modulation=8

CodesetNr=5

BitEncoding=2

UseDecoderNr=0

BitSyncAlgo=1

DisableFilters=0

SpecialFlags=0

ScopeMode=3

ScopeTrigger=0

ScopeUpdateTime=500

ScopeHorzSecPerDiv=0.1

ScopeHorzPixelPerDiv=20

ScopeHorzOpt=4

ScopeVertOpt=0

AutoSwitch2Rx=0

AutoSwitch2Tx=0

HalfDuplex=1

FlipMainAnalyser=1

BeaconMode=0

[AUDIO\_FREQUENCIES2]

fc\_rx=2200

fc\_tx=2200

f\_shift=170

fc\_stepwidth=1

[MODULATION2]

symbol\_rate=50

rev\_keying=0

tx\_freq\_multiplier=1

pulse\_shaping=1

shape\_percent=100

output\_level=100

special\_options=0

[DETECTOR2]

use\_afc=1

narrow\_afc=0

afc\_tune\_range=100

squelch\_thrsh=25

[SERIAL\_DECODER2]

AsyncStartBit=1

AsyncDataBits=8

AsyncParityBit=0

AsyncStopBit=1

AsyncMsbFirst=0

[RX\_CHAR\_DISPLAY2]

ChrDisplayMode=0

LinefeedAfterPause=0

UseSlashZero=1

PrintDateOrTime=0

RejectedMessages=

[MODE\_DLL2]

name=DemoDll.dll

use\_it=0

[HELL\_FONT2]

name=MS Sans Serif

height=-11

style=0

cut\_top=0

[DIGIMODE3]

Active=0

DemodSource1=1

ComplexInput=0

ModulatorDest1=3

ModulatorDest2=0

DecoderLogfile=Term1.txt

[MODES3]

OperMode=1

Modulation=8

CodesetNr=5

BitEncoding=2

UseDecoderNr=0

BitSyncAlgo=1

DisableFilters=0

SpecialFlags=0

ScopeMode=3

ScopeTrigger=0

ScopeUpdateTime=500

ScopeHorzSecPerDiv=0.1

ScopeHorzPixelPerDiv=20

ScopeHorzOpt=4

ScopeVertOpt=0

AutoSwitch2Rx=0

AutoSwitch2Tx=0

HalfDuplex=1

FlipMainAnalyser=1

BeaconMode=0

[AUDIO\_FREQUENCIES3]

fc\_rx=2200

fc\_tx=2200

f\_shift=170

fc\_stepwidth=1

[MODULATION3]

symbol\_rate=50

rev\_keying=0

tx\_freq\_multiplier=1

pulse\_shaping=1

shape\_percent=100

output\_level=100

special\_options=0

[DETECTOR3]

use\_afc=1

narrow\_afc=0

afc\_tune\_range=100

squelch\_thrsh=25

[SERIAL\_DECODER3]

AsyncStartBit=1

AsyncDataBits=8

AsyncParityBit=0

AsyncStopBit=1

AsyncMsbFirst=0

[RX\_CHAR\_DISPLAY3]

ChrDisplayMode=0

LinefeedAfterPause=0

UseSlashZero=1

PrintDateOrTime=0

RejectedMessages=

[MODE\_DLL3]

name=DemoDll.dll

use\_it=0

[HELL\_FONT3]

name=MS Sans Serif

height=-11

style=0

cut\_top=0

[DIGIMODE4]

Active=0

DemodSource1=1

ComplexInput=0

ModulatorDest1=3

ModulatorDest2=0

DecoderLogfile=Term1.txt

[MODES4]

OperMode=1

Modulation=8

CodesetNr=5

BitEncoding=2

UseDecoderNr=0

BitSyncAlgo=1

DisableFilters=0

SpecialFlags=0

ScopeMode=3

ScopeTrigger=0

ScopeUpdateTime=500

ScopeHorzSecPerDiv=0.1

ScopeHorzPixelPerDiv=20

ScopeHorzOpt=4

ScopeVertOpt=0

AutoSwitch2Rx=0

AutoSwitch2Tx=0

HalfDuplex=1

FlipMainAnalyser=1

BeaconMode=0

[AUDIO\_FREQUENCIES4]

fc\_rx=2200

fc\_tx=2200

f\_shift=170

fc\_stepwidth=1

[MODULATION4]

symbol\_rate=50

rev\_keying=0

tx\_freq\_multiplier=1

pulse\_shaping=1

shape\_percent=100

output\_level=100

special\_options=0

[DETECTOR4]

use\_afc=1

narrow\_afc=0

afc\_tune\_range=100

squelch\_thrsh=25

[SERIAL\_DECODER4]

AsyncStartBit=1

AsyncDataBits=8

AsyncParityBit=0

AsyncStopBit=1

AsyncMsbFirst=0

[RX\_CHAR\_DISPLAY4]

ChrDisplayMode=0

LinefeedAfterPause=0

UseSlashZero=1

PrintDateOrTime=0

RejectedMessages=

[MODE\_DLL4]

name=DemoDll.dll

use\_it=0

[HELL\_FONT4]

name=MS Sans Serif

height=-11

style=0

cut\_top=0

[PTT\_VOX]

VoxSource=0

RelayLeadTime=50

FollowUpTime=500

VoxTrigLevel=1024

AudioLatencyComp=0

[DCF77]

Active=0

F\_center=650

[SPECTRUM\_BUFFER]

MaxSpectrumBufferFftBins=2048

PeriodicUpdateOvw=0

[FFT\_INPUT]

ConnectSpectrumTo=1

ConnectSpectrumTo\_Q=2

ConnectSpectrumCh2To=0

ConnectSpectrumCh2To\_Q=0

Same4AllChnls=1

RateDivisor=1

AntiAlias=1

ZeroPadInput=0

ApplyFOCalib=0

TrigOptions=0

TriggeredAverages=0

NrOfSamples=32768

Average=0

BinSmoothing=0

WindowFunc=2

ComplexFFT=2

CenterFrequency=0

LoSweepRate=0

LoSweepMode=0

[FFT\_OUTPUT]

PhysicalUnit=dBfs

NeedPhaseInfo=2

UserDbOffset=0.0

[FFT\_INPUT2]

ConnectSpectrumTo=2

ConnectSpectrumTo\_Q=0

ConnectSpectrumCh2To=0

ConnectSpectrumCh2To\_Q=0

Same4AllChnls=1

RateDivisor=1

AntiAlias=1

ZeroPadInput=0

ApplyFOCalib=0

TrigOptions=0

TriggeredAverages=0

NrOfSamples=8192

Average=0

BinSmoothing=0

WindowFunc=2

ComplexFFT=0

CenterFrequency=0

LoSweepRate=0

LoSweepMode=0

[FFT\_OUTPUT2]

PhysicalUnit=dB

NeedPhaseInfo=0

UserDbOffset=0.0

[DISPLAY]

ReadCursorMode=1

ReadCursorOpts=40

PeakDetCursor=1

UserCursorExpr1=str("hh:mm:ss.s",cursor.spectrum.time)

FreqMin=9900

FreqMax=10400

FreqMin2=600

FreqMax2=800

FreqOffset=0

EditFWithoutOffset=0

AmplMin=-70

AmplMax=-30

AmplMin2=-70

AmplMax2=-30

CorrelAmplMin=-1

CorrelAmplMax=10

SpectrumActive=1

SpectrumOrient=0

SpecGraphArea=100

DrawingOptions=11

LongTermAvrgOptions=0

OnePixelPerBin1=0

OnePixelPerBin2=0

LogFreqScale=0

WaterStripPixels=100

SplitFreqScale=0

SplitFreqPercent=50

CorrelogramVisible=0

CorrelogramOptions=0

CorrelFmin=0

CorrelFmax=0

CorrelogramWidthPercent=33

CorrelatorLagMin=-0.0853333333333

CorrelatorLagMax=0.0853333333333

CorrelatorAmplMin=-1

CorrelatorAmplMax=10

AmplitudeBar=0

AmplitudeBarOpts=2

AmplitudeBarSize=75

AmplitudeBarRange=100

AmplBarShowChannelsFromWatchWindow=1

SpectrumMirror=0

ScaleFontName=Courier New

ScaleFontSize=8

FreqScaleOptions=1

FreqScaleFixedSize=0

SpectrumStyleNPos=2

SpectrumMathOptions=0

SpecialDisplayMode=0

ReassignmentFlags=0

WaterLineWidth=2

WaterScrollEnabled=1

AutoScrollSpeed=0

AutoScrollOverlap=2

SmoothScroll=1

AmplitudeGrid=1

FrequencyGrid=1

FreqGridStyle=0

TDDisplayOptions=1

TDFontName=Arial

TDFontSize=9

SpectrumBgColor=0

SpectrumGridColor=8421504

SpectrumPenColor0=65535

SpectrumPenColor1=16744319

SpectrumPenColor2=65280

SpectrumPenColor3=8388608

SpectrumPenColor4=255

SpectrumPenColor5=4227327

SpectrumPenColor6=8388863

SpectrumPenColor7=16744703

FreqscaleBgColor=16777215

FreqscaleFgColor=0

StationFreqColor=16776960

AmplBarBgColor=16711680

WaterBadColor=4144959

WaterGridColor=16777215

WaterLabelTextColor=16777215

WaterLabelBkgndColor=0

WaterLabelTransparent=1

CursorTextColor=8355839

CursorBkgndColor=0

WaterFreqGrid=0

WaterTimeGrid=1

WaterTimeLabel=3

TDTimeLabel=1

UserTimeLabel=YYYY-MM-DD hh:mm:ss

TimeGridSeconds=15

TimeGridSource=

TimeGridStyle=2

ChnIndividualContrast=0

WaterColorPalette=palettes\gram.pal

VisualAGCMode=0

VisualAGCRef=-100

ColorPalContrast=118

ColorPalBrightness=111

ColorPalSaturation=128

WaterColorPalette2=palettes\sunrise.pal

VisualAGCMode2=0

VisualAGCRef2=-100

ColorPalContrast2=100

ColorPalBrightness2=128

ColorPalSaturation2=128

WaterColorPalette3=palettes\sunrise.pal

VisualAGCMode3=0

VisualAGCRef3=-100

ColorPalContrast3=100

ColorPalBrightness3=128

ColorPalSaturation3=128

WaterScrollInterval=0.15

WaterfallAveraging=1

PeakInterval=3

LTAvrgHalfLife=0

[DISPLAY2]

ReadCursorMode=1

ReadCursorOpts=40

PeakDetCursor=1

UserCursorExpr1=str("hh:mm:ss.s",cursor.spectrum.time)

FreqMin=0

FreqMax=5000

FreqMin2=600

FreqMax2=800

FreqOffset=0

EditFWithoutOffset=0

AmplMin=-120

AmplMax=0

AmplMin2=-120

AmplMax2=0

CorrelAmplMin=-1

CorrelAmplMax=10

SpectrumActive=0

SpectrumOrient=0

SpecGraphArea=100

DrawingOptions=0

LongTermAvrgOptions=0

OnePixelPerBin1=0

OnePixelPerBin2=0

LogFreqScale=0

WaterStripPixels=100

SplitFreqScale=0

SplitFreqPercent=50

CorrelogramVisible=0

CorrelogramOptions=0

CorrelFmin=0

CorrelFmax=0

CorrelogramWidthPercent=33

CorrelatorLagMin=-0.1

CorrelatorLagMax=0.1

CorrelatorAmplMin=-1

CorrelatorAmplMax=10

AmplitudeBar=0

AmplitudeBarOpts=2

AmplitudeBarSize=75

AmplitudeBarRange=100

AmplBarShowChannelsFromWatchWindow=0

SpectrumMirror=0

ScaleFontName=Courier New

ScaleFontSize=8

FreqScaleOptions=1

FreqScaleFixedSize=0

SpectrumStyleNPos=4

SpectrumMathOptions=0

SpecialDisplayMode=0

ReassignmentFlags=0

WaterLineWidth=1

WaterScrollEnabled=1

AutoScrollSpeed=1

AutoScrollOverlap=2

SmoothScroll=0

AmplitudeGrid=1

FrequencyGrid=1

FreqGridStyle=1

TDDisplayOptions=1

TDFontName=Arial

TDFontSize=9

SpectrumBgColor=0

SpectrumGridColor=8421504

SpectrumPenColor0=65535

SpectrumPenColor1=16744319

SpectrumPenColor2=65280

SpectrumPenColor3=8388608

SpectrumPenColor4=255

SpectrumPenColor5=4227327

SpectrumPenColor6=8388863

SpectrumPenColor7=16744703

FreqscaleBgColor=16777215

FreqscaleFgColor=0

StationFreqColor=16776960

AmplBarBgColor=16711680

WaterBadColor=4144959

WaterGridColor=16777215

WaterLabelTextColor=16777215

WaterLabelBkgndColor=0

WaterLabelTransparent=1

CursorTextColor=8355839

CursorBkgndColor=0

WaterFreqGrid=0

WaterTimeGrid=3

WaterTimeLabel=3

TDTimeLabel=1

UserTimeLabel=YYYY-MM-DD hh:mm:ss

TimeGridSeconds=60

TimeGridSource=

TimeGridStyle=1

ChnIndividualContrast=0

WaterColorPalette=palettes\sunrise.pal

VisualAGCMode=0

VisualAGCRef=-100

ColorPalContrast=100

ColorPalBrightness=128

ColorPalSaturation=128

WaterColorPalette2=palettes\sunrise.pal

VisualAGCMode2=0

VisualAGCRef2=-100

ColorPalContrast2=100

ColorPalBrightness2=128

ColorPalSaturation2=128

WaterColorPalette3=palettes\sunrise.pal

VisualAGCMode3=0

VisualAGCRef3=-100

ColorPalContrast3=100

ColorPalBrightness3=128

ColorPalSaturation3=128

WaterScrollInterval=0.042

WaterfallAveraging=1

PeakInterval=5

LTAvrgHalfLife=0

[ColorDF]

AntennaSetup=1

IntensityScaling=0

IntensitySource=2

ColourSchemeNr=0

RotationalDir=0

AngleOffset=90

ExtraColourSat=0

CalibFile=

UseCalib=0

NullingCardioid=0

NullDirection=154

NullDirection2=23

NullDirection3=327.100006104

Null\_H\_E\_Weight=1

NullPowerCorr=0.5

[TDScope]

Left=144

Top=113

Width=548

Height=431

Visible=0

FormStyle=0

Active=0

NrOfChannels=1

Mode=0

DebugMode=0

AutoRanging=0

Decimation=1

Averages=0

UseMovingAverage=1

PeakDetect=0

Persistance=0

SlowFadeImage=0

HorzScalePercent=100

DispBufSamples=0

DispZoomedStart=0

TriggerMode=0

TriggerSlope=0

TriggerSource=0

TriggerCoupling=0

PretriggerPercent=50

TriggerLevel=0

TriggerSyncTime=0.07499

DispPhaseRange=360

BkgndColor=0

GridColor=13619151

LabelColor=13619151

[TDScope\_Chn0]

ShowWhat=4

DisplayStyle=2

ConnectTo=1

RefFrequency=650

AmplMin=-32768

AmplMax=32767

LogScale=0

ZeroDecibelValue=32767

UseFOCalib=1

PenColor=255

PhzColor=65280

[TDScope\_Chn1]

ShowWhat=4

DisplayStyle=2

ConnectTo=2

RefFrequency=800

AmplMin=-32768

AmplMax=32767

LogScale=0

ZeroDecibelValue=32767

UseFOCalib=1

PenColor=16744319

PhzColor=16711935

SameLoForPhaseMeters=0

[FREQ\_MARKERS]

Hidden=0

ShowInScreenshot=1

Name0=VFO

Type0=

Color0=255

FreqIncludesVFO0=0

SetProc0=filter[0].fft.fs=x-filter[0].fft.fc

GetFunc0=filter[0].fft.fs+filter[0].fft.fc

Name1=Zero Beat

Type1=

Color1=65280

FreqIncludesVFO1=0

SetProc1=filter[0].fft.fc=filter[0].fft.fc+filter[0].fft.fs-x : filter[0].fft.fs=x

GetFunc1=filter[0].fft.fs

Name2=AudioBW

Type2=

Color2=16711680

FreqIncludesVFO2=0

SetProc2=filter[0].fft.bw=2\*(x-filter[0].fft.fs-filter[0].fft.fc)

GetFunc2=filter[0].fft.fs+filter[0].fft.fc+0.5\*filter[0].fft.bw

[SPECTRUM\_REF]

FileName=spectrum.ref

Color=16744319

Visible=0

Subtract=0

[CAPTURE]

Time\_From=0

Time\_To=86399

TimeInterval=90

TimerActive=1

PeriodicAction=capture ("C:\\capture\\meteor\_vyskov\_"+str("YYMMDD\_hhmm",now)+".jpg")

PeriodicAction2=

PeriodicAction3=

PeriodicAction4=

PeriodicAction5=

PeriodicAction6=

PeriodicAction7=

PeriodicAction8=

PeriodicAction9=

PeriodicAction10=

PeriodicAction11=

PeriodicAction12=

PeriodicAction13=

PeriodicAction14=

PeriodicAction15=

PeriodicAction16=

PeriodicAction17=

PeriodicAction18=

PeriodicAction19=

PeriodicAction20=

ScheduleActive=0

Options=2

InfoOvl=1

InfoPos=3

InfoStk=1

InfoDef0=$"Date="+str("YYYY-MM-DD",now)+" Time="+str("hh:mm",now)+" UTC"

InfoDef1=$"Freq=143.050000 MHz"

InfoDef2=$"LO=143.039795 MHz"

InfoDef3=$"Vyskov Observatory at--- N49.2607 E14.6916"

InfoDef4=

InfoDef5=

InfoDef6=

InfoDef7=

InfoDef8=

InfoDef9=

SequenceNr=2

SequenceName=Vyskov\_Observatory

UseJpegFormat=1

JpegQuality=90

Macro0=

Macro1=

Macro2=

Macro3=

Macro4=

Macro5=

Macro6=

Macro7=

Macro8=

Macro9=

Macro10=

Macro11=

Macro12=

Macro13=

Macro14=

Macro15=

Macro16=

Macro17=

Macro18=

Macro19=

Macro20=

Macro21=

Macro22=

Macro23=

Macro24=

Macro25=

Macro26=

Macro27=

Macro28=

Macro29=

Macro30=

Macro31=

Macro32=

Macro33=

Macro34=

Macro35=

Macro36=

Macro37=

Macro38=

Macro39=

[SCHEDULE]

NumEvents=12

[SCHEDULE0]

Time=79200

ActionCmd=capture

[SCHEDULE1]

Time=0

ActionCmd=capture

[SCHEDULE2]

Time=14400

ActionCmd=capture

[SCHEDULE3]

Time=21600

ActionCmd=capture

[SCHEDULE4]

Time=-1

ActionCmd=

[SCHEDULE5]

Time=-1

ActionCmd=

[SCHEDULE6]

Time=-1

ActionCmd=

[SCHEDULE7]

Time=-1

ActionCmd=

[SCHEDULE8]

Time=-1

ActionCmd=

[SCHEDULE9]

Time=-1

ActionCmd=

[SCHEDULE10]

Time=-1

ActionCmd=

[SCHEDULE11]

Time=-1

ActionCmd=

[CONDITIONAL\_ACTIONS]

Active=1

EvalIntv=50

IF0=initialising

THEN0=s0="vyskov":s1="C:\\capture\\":s2="C:\\capture\_audio\\":s3="C:\\capture\

\":C=0:E=0:rec.trigger=0:I=0:t2=0:H=0:m1=999

IF1=always

THEN1=n=noise(9800,10200):f=peak\_f(10150,10250):a=avrg(f-100,f+100):m=round(n-a+10):t1=str

("YYYYMMDDhh",now):L=str("hh",now):h1=str("mmss",now):REM Periodical actions

IF2=a>(n+6.3)

THEN2=C=C+1:timer0.restart(3.4):H=H+1:REM Detection was done

IF3=timer0.expired(1)

THEN3=I=1:REM End of meteor

IF4=val(h1,"####")=5930

THEN4=t2=t2+1

IF5=t2=1

THEN5=fopen4(s1+"RMOB-"+str("YYYYMM",now)+".dat",a):fp4(t1,",",L,",",E):fclose4:sp.print("Last

hour=",E):C=0:E=0:REM End of hour

IF6=val(h1,"####")=5940

THEN6=t2=0

IF7=m<m1

THEN7=m1=m

IF8=H=1

THEN8=H=2:n1=round(n):f1=f:sp.print(" t+"+str

("ss",time)):REM Print time of begin

IF9=C=50

THEN9=rec.filename=s2+"bolid\_"+s0+"\_"+str("YMMDD\_hhmmss",now)+".wav":rec.trigger=1:REM Record

audio if duration is 2,5s

IF10=I=1

THEN10=I=2:fopen1(s3+"meteors\_"+s0+".dat",a):fp1(t1,h1,", nb=",n1,", f=",f1,", mag=",m1,", dur=",C,",

end=",str("mmss",now)):fclose1:REM Record meteor as text

IF11=I=2

THEN11=I=0:H=0:C=0:E=E+1:sp.print(" "+str(E)+" nb"+str(n1)+" f"+str(f1)+" mag"+str

(m1)):m1=999:rec.trigger=0:REM Print end of meteor

IF12=

THEN12=

IF13=

THEN13=

IF14=

THEN14=

IF15=

THEN15=

IF16=

THEN16=

IF17=

THEN17=

IF18=

THEN18=

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IF98=

THEN98=

IF99=

THEN99=

WatchExpression=

[CIRCUIT]

ConnectGeneratorToInput=3

ConnectGeneratorToOutput=0

InputMonitorSource=1

OutputMonitorSource=3

TrigMode=0

TrigSource=0

TrigPolarity=1

TrigLevel=0

TrigHysteresis=20

PretriggerTime=0

TrigTimerIntvl=1

MixerHilbertLength=37

FreqCvtSameLO=0

FreqCvtQuadLO=0

ConnectSlider1=1

Gain0=1

Gain1=1

Gain2=1

Gain3=1

Gain4=1

Gain5=1

Gain6=0

Gain7=0

FreqMixerEnabled=0

MixerDcReject=0

MixerFrequency=700

MixerSideband=0

[CIRCUIT2]

FreqMixerEnabled=0

MixerDcReject=0

MixerFrequency=0

MixerSideband=0

[COUNTER\_TIMER]

Mode=0

Options=0

Source0=0

Source1=0

Source2=0

Source3=0

TriggerLevel=50

Hysteresis=1

GateTime=1

HoldoffTime=0

[FILTER]

DisplayOptions=3

[FILTER0]

CoeffFile=

IIR2DesignFile=

FIR2DesignFile=

FilterFftSize=16384

FftSame4All=1

FftShowInGraph=1

FftANotchSpeed=0.05

FftANotchWidth=5

FftANRegionWidth=20

FftANotchTransitionWidth=0

FftANotchThrsh=4

FftANotchBurstReject=3

FftANotchRangeFlags1=0

FftANotchFreqRangeStart=0

FftANotchFreqRangeEnd=0

FftANotchRangeFlags2=0

FftANotchFreqRangeStart2=2000

FftANotchFreqRangeEnd2=2500

FftANotchRangeFlags3=0

FftANotchFreqRangeStart3=3000

FftANotchFreqRangeEnd3=3500

FftANotchRangeFlags4=0

FftANotchFreqRangeStart4=4000

FftANotchFreqRangeEnd4=4500

FftANotchRangeFlags5=0

FftANotchFreqRangeStart5=5000

FftANotchFreqRangeEnd5=5500

FftDenoiserLvl=-80

ChirpRate=0

DecimateOutputSRateBy=1

GraphMinLevel=-130

GraphMaxLevel=0

FftFilterType=3

FftFilterOptions=256

FftFilterFC=-0.571428571429

FftFilterBW=276.571428571

FftFilterSW=20

FftFreqShift=10149.7142857

FftInvertFrom=0

FftInvertTo=0

FftFilterResponse=

FftFilterPlugin=

When2CallPlugin=0

PluginWinX=0

PluginWinY=0

PluginWinWidth=128

PluginWinHeight=128

SpecialRangeF10=0

SpecialRangeF20=0

SpecialRangeP0\_01=0

SpecialRangeP1\_01=0

SpecialRangeP2\_01=0

SpecialRangeP3\_01=0

SpecialRangeType0=0

SpecialRangeF11=0

SpecialRangeF21=0

SpecialRangeP0\_11=0

SpecialRangeP1\_11=0

SpecialRangeP2\_11=0

SpecialRangeP3\_11=0

SpecialRangeType1=0

SpecialRangeF12=0

SpecialRangeF22=0

SpecialRangeP0\_21=0

SpecialRangeP1\_21=0

SpecialRangeP2\_21=0

SpecialRangeP3\_21=0

SpecialRangeType2=0

SpecialRangeF13=0

SpecialRangeF23=0

SpecialRangeP0\_31=0

SpecialRangeP1\_31=0

SpecialRangeP2\_31=0

SpecialRangeP3\_31=0

SpecialRangeType3=0

SpecialRangeF14=0

SpecialRangeF24=0

SpecialRangeP0\_41=0

SpecialRangeP1\_41=0

SpecialRangeP2\_41=0

SpecialRangeP3\_41=0

SpecialRangeType4=0

SpecialRangeF15=0

SpecialRangeF25=0

SpecialRangeP0\_51=0

SpecialRangeP1\_51=0

SpecialRangeP2\_51=0

SpecialRangeP3\_51=0

SpecialRangeType5=0

SpecialRangeF16=0

SpecialRangeF26=0

SpecialRangeP0\_61=0

SpecialRangeP1\_61=0

SpecialRangeP2\_61=0

SpecialRangeP3\_61=0

SpecialRangeType6=0

SpecialRangeF17=0

SpecialRangeF27=0

SpecialRangeP0\_71=0

SpecialRangeP1\_71=0

SpecialRangeP2\_71=0

SpecialRangeP3\_71=0

SpecialRangeType7=0

[FILTER1]

CoeffFile=

IIR2DesignFile=

FIR2DesignFile=

FilterFftSize=16384

FftSame4All=1

FftShowInGraph=1

FftANotchSpeed=0.05

FftANotchWidth=5

FftANRegionWidth=20

FftANotchTransitionWidth=0

FftANotchThrsh=4

FftANotchBurstReject=3

FftANotchRangeFlags1=0

FftANotchFreqRangeStart=0

FftANotchFreqRangeEnd=0

FftANotchRangeFlags2=0

FftANotchFreqRangeStart2=2000

FftANotchFreqRangeEnd2=2500

FftANotchRangeFlags3=0

FftANotchFreqRangeStart3=3000

FftANotchFreqRangeEnd3=3500

FftANotchRangeFlags4=0

FftANotchFreqRangeStart4=4000

FftANotchFreqRangeEnd4=4500

FftANotchRangeFlags5=0

FftANotchFreqRangeStart5=5000

FftANotchFreqRangeEnd5=5500

FftDenoiserLvl=-80

ChirpRate=0

DecimateOutputSRateBy=1

GraphMinLevel=-130

GraphMaxLevel=0

FftFilterType=3

FftFilterOptions=256

FftFilterFC=-0.571428571429

FftFilterBW=276.571428571

FftFilterSW=20

FftFreqShift=10149.7142857

FftInvertFrom=0

FftInvertTo=0

FftFilterResponse=

FftFilterPlugin=

When2CallPlugin=0

PluginWinX=0

PluginWinY=0

PluginWinWidth=128

PluginWinHeight=128

SpecialRangeF10=0

SpecialRangeF20=0

SpecialRangeP0\_01=0

SpecialRangeP1\_01=0

SpecialRangeP2\_01=0

SpecialRangeP3\_01=0

SpecialRangeType0=0

SpecialRangeF11=0

SpecialRangeF21=0

SpecialRangeP0\_11=0

SpecialRangeP1\_11=0

SpecialRangeP2\_11=0

SpecialRangeP3\_11=0

SpecialRangeType1=0

SpecialRangeF12=0

SpecialRangeF22=0

SpecialRangeP0\_21=0

SpecialRangeP1\_21=0

SpecialRangeP2\_21=0

SpecialRangeP3\_21=0

SpecialRangeType2=0

SpecialRangeF13=0

SpecialRangeF23=0

SpecialRangeP0\_31=0

SpecialRangeP1\_31=0

SpecialRangeP2\_31=0

SpecialRangeP3\_31=0

SpecialRangeType3=0

SpecialRangeF14=0

SpecialRangeF24=0

SpecialRangeP0\_41=0

SpecialRangeP1\_41=0

SpecialRangeP2\_41=0

SpecialRangeP3\_41=0

SpecialRangeType4=0

SpecialRangeF15=0

SpecialRangeF25=0

SpecialRangeP0\_51=0

SpecialRangeP1\_51=0

SpecialRangeP2\_51=0

SpecialRangeP3\_51=0

SpecialRangeType5=0

SpecialRangeF16=0

SpecialRangeF26=0

SpecialRangeP0\_61=0

SpecialRangeP1\_61=0

SpecialRangeP2\_61=0

SpecialRangeP3\_61=0

SpecialRangeType6=0

SpecialRangeF17=0

SpecialRangeF27=0

SpecialRangeP0\_71=0

SpecialRangeP1\_71=0

SpecialRangeP2\_71=0

SpecialRangeP3\_71=0

SpecialRangeType7=0

[SIGNAL\_GENERATOR]

UseSineTable=0

NoiseLevel=-50

NoiseOn=0

AmModFreq=1

AmModFactor=1

AmModCarrier=1

AmModWave=0

AmDutyCyclePcnt=50

FmModWave=0

FmModFreq=100

FmModDeviation=240.5

FmDutyCyclePcnt=50

ArbitraryWaveformFile=

ArbitraryWaveformFormula=sin(2\*pi\*x)

LoadAWFromFile=0

Enabled0=1

AmMod0=0

FmMod0=0

Wave0=0

SinFreq0=900

SinAmpl0=0.1

Enabled1=1

AmMod1=0

FmMod1=0

Wave1=0

SinFreq1=1000

SinAmpl1=0.1

Enabled2=1

AmMod2=0

FmMod2=0

Wave2=0

SinFreq2=1100

SinAmpl2=0.1

[CIRCUIT\_BLACKBOX0]

CompType=0

BandpassFC=1400

BandpassBW=1400

BandpassRespType=0

AdderInputGainA=1

AdderInputGainB=1

AdderMultiplierMode=0

DCRejectTimeConst=10

DelaySeconds=0.5

AdderGain=0

InputGain=1

FeedbackGain=0.9

BypassGain=0

SignalSource=0

DeModType=0

DeModOptions=0

DeModFC=2500

DeModBW=1000

DeModFact=1

DeModCarr=1

DeemphTimeConst=5e-05

ChirpRate=0

ChirpStartFreq=0

ChirpLength=0

ChirpFilterOpt=0

Limiter\_dB\_above\_FS=-6

Limiter\_dB\_above\_AVRG=10

NbRampTime=0.002

NbTrigLevel=10

NbAvrgDetTimeConst=5

NbAvrgDetFallTimeConst=0

NbPreTriggerTime=0.0005

NbPostTriggerTime=0.0005

EVE\_NB\_TrigLevel=1500

HumFiltFC=50

HumFiltEndStop=0.5

HumFiltTrkCycle=0.5

HumFiltSlewRate=0.01

HumFiltStages=4

HumFiltTrackAlgo=11

HumFiltFlags=0

HumFreqExpr=peak\_f(#1,49.8,50.2)

AGCMode=0

AGCFlags=0

AGCTargetLevel=-3

AGCMinGain=-20

AGCMaxGain=80

AGCCustomAttack=1

AGCCustomDecay=0.1

[CIRCUIT\_BLACKBOX1]

CompType=0

BandpassFC=1400

BandpassBW=1400

BandpassRespType=0

AdderInputGainA=1

AdderInputGainB=1

AdderMultiplierMode=0

DCRejectTimeConst=10

DelaySeconds=0.5

AdderGain=0

InputGain=1

FeedbackGain=0.9

BypassGain=0

SignalSource=0

DeModType=0

DeModOptions=0

DeModFC=2500

DeModBW=1000

DeModFact=1

DeModCarr=1

DeemphTimeConst=5e-05

ChirpRate=0

ChirpStartFreq=0

ChirpLength=0

ChirpFilterOpt=0

Limiter\_dB\_above\_FS=-6

Limiter\_dB\_above\_AVRG=10

NbRampTime=0.002

NbTrigLevel=10

NbAvrgDetTimeConst=5

NbAvrgDetFallTimeConst=0

NbPreTriggerTime=0.0005

NbPostTriggerTime=0.0005

EVE\_NB\_TrigLevel=1500

HumFiltFC=50

HumFiltEndStop=0.5

HumFiltTrkCycle=0.5

HumFiltSlewRate=0.01

HumFiltStages=4

HumFiltTrackAlgo=11

HumFiltFlags=0

HumFreqExpr=peak\_f(#1,49.8,50.2)

AGCMode=0

AGCFlags=0

AGCTargetLevel=-3

AGCMinGain=-20

AGCMaxGain=80

AGCCustomAttack=1

AGCCustomDecay=0.1

[CIRCUIT\_BLACKBOX2]

CompType=0

BandpassFC=1400

BandpassBW=1400

BandpassRespType=0

AdderInputGainA=1

AdderInputGainB=1

AdderMultiplierMode=0

DCRejectTimeConst=10

DelaySeconds=1

AdderGain=0

InputGain=1

FeedbackGain=0

BypassGain=1

SignalSource=0

DeModType=0

DeModOptions=0

DeModFC=0

DeModBW=0

DeModFact=1

DeModCarr=1

DeemphTimeConst=5e-05

ChirpRate=2000

ChirpStartFreq=500

ChirpLength=1

ChirpFilterOpt=0

Limiter\_dB\_above\_FS=6

Limiter\_dB\_above\_AVRG=10

NbRampTime=0.01

NbTrigLevel=20

NbAvrgDetTimeConst=5

NbAvrgDetFallTimeConst=0

NbPreTriggerTime=0.0005

NbPostTriggerTime=0.0005

EVE\_NB\_TrigLevel=1500

HumFiltFC=50

HumFiltEndStop=0.5

HumFiltTrkCycle=0.5

HumFiltSlewRate=0.01

HumFiltStages=4

HumFiltTrackAlgo=12

HumFiltFlags=0

HumFreqExpr=peak\_f(#1,49.8,50.2)

AGCMode=3

AGCFlags=1

AGCTargetLevel=-3

AGCMinGain=-20

AGCMaxGain=70

AGCCustomAttack=0.1

AGCCustomDecay=0.1

[CIRCUIT\_BLACKBOX3]

CompType=0

BandpassFC=1400

BandpassBW=1400

BandpassRespType=0

AdderInputGainA=1

AdderInputGainB=1

AdderMultiplierMode=0

DCRejectTimeConst=10

DelaySeconds=0.5

AdderGain=0

InputGain=1

FeedbackGain=0.9

BypassGain=0

SignalSource=0

DeModType=0

DeModOptions=0

DeModFC=2500

DeModBW=1000

DeModFact=1

DeModCarr=1

DeemphTimeConst=5e-05

ChirpRate=0

ChirpStartFreq=0

ChirpLength=0

ChirpFilterOpt=0

Limiter\_dB\_above\_FS=-6

Limiter\_dB\_above\_AVRG=10

NbRampTime=0.002

NbTrigLevel=10

NbAvrgDetTimeConst=5

NbAvrgDetFallTimeConst=0

NbPreTriggerTime=0.0005

NbPostTriggerTime=0.0005

EVE\_NB\_TrigLevel=1500

HumFiltFC=50

HumFiltEndStop=0.5

HumFiltTrkCycle=0.5

HumFiltSlewRate=0.01

HumFiltStages=4

HumFiltTrackAlgo=11

HumFiltFlags=0

HumFreqExpr=peak\_f(#1,49.8,50.2)

AGCMode=0

AGCFlags=0

AGCTargetLevel=-3

AGCMinGain=-20

AGCMaxGain=80

AGCCustomAttack=1

AGCCustomDecay=0.1

[GPS\_RECEIVER]

PosEmitInterval=60

Options=32

ExportColumnSeparator=32

[INTERPRETER]

MsgDisplay=63

CommandFileName=command\_files\testcmd.txt

[EXPORT]

NextWriteTime=0

FftExportOptions=0

FftExportFormat=0

FftExportHeaders=0

FftExportSeparator=9

FftExportMaxNrBins=1024

FftExportMaxFileSize=0

FftExportStartFreqHz=0

FftExportFileName=FftLog1.txt

FftExportTimeFormat=YYYY-MM-DD hh:mm:ss.s

[EXPORT\_FORMAT]

NrOfColumns=4

Active=0

SeparatorChr=9

FileName=exported.txt

FileName2=

Title0=Time

Exprs0=time

Format0=YYYY-MM-DD hh:mm:ss

Flags0=0

Title1=Noise

Exprs1=noise\_n(500,2500)

Format1=##0.0#

Flags1=0

Title2=PeakAmpl

Exprs2=peak\_a(500,2500)

Format2=##0.0#

Flags2=0

Title3=PeakFreq

Exprs3=peak\_f(500,2500)

Format3=###0.0#

Flags3=0

[EXPORT\_ACTIONS]

CmdAfterSpectrum=

CmdBeforeWrite=

CmdAfterWrite=

UsePreciseInterval=1

WriteIntervalSec=1

PwrFailSafe=0

[MACRO\_BUTTONS]

Exprs0=$"Capture now"

Commands0=capture("capt"+str("YYMMDDhhmm",now)+".jpg")

Options0=2

Hotkey0=0

Exprs1=$"Time: "+str("hh:mm:ss.s",now)

Commands1=

Options1=2

Hotkey1=0

Exprs2=$"peak at "+str("###0.00 Hz",peak\_f(200,2500))

Commands2=

Options2=2

Hotkey2=0

Exprs3=$"Pause"

Commands3=sp.pause=1 // spectrum analyser pause

Options3=2

Hotkey3=0

Exprs4=$"Continue"

Commands4=sp.pause=0 // spectrum analyser resume

Options4=2

Hotkey4=0

Exprs5=$"Button #6"

Commands5=

Options5=2

Hotkey5=0

Exprs6=$"Button #7"

Commands6=

Options6=2

Hotkey6=0

Exprs7=$"Button #8"

Commands7=

Options7=2

Hotkey7=0

[USER\_MENU\_ITEMS]

Exprs0=

Commands0=

Options0=0

Hotkey0=0

Exprs1=

Commands1=

Options1=0

Hotkey1=0

Exprs2=

Commands2=

Options2=0

Hotkey2=0

Exprs3=

Commands3=

Options3=0

Hotkey3=0

Exprs4=

Commands4=

Options4=0

Hotkey4=0

Exprs5=

Commands5=

Options5=0

Hotkey5=0

[WatchWindow]

Left=124

Top=108

Width=503

Height=392

Visible=0

FormStyle=0

[WatchListAndPlotter]

Flags=0

TextExportFlags=0

BottomControls=0

[WatchList]

Title1=Noise

Expr1=noise\_n(500,1000)

Form1=##0.0

MinV1=-100

MaxV1=0

Title2=Peak1\_Ampl

Expr2=peak\_a(500,1000)

Form2=##0.0

MinV2=-100

MaxV2=0

Title3=Peak1\_Freq

Expr3=peak\_f(500,1000)

Form3=###0.0

MinV3=200

MaxV3=2700

Title4=Peak2\_Ampl

Expr4=peak\_a(1000,1500)

Form4=##0.0

MinV4=-100

MaxV4=0

Title5=Peak2\_Freq

Expr5=peak\_f(1000,1500)

Form5=###0.0

MinV5=200

MaxV5=2700

Title6=Peak3\_Ampl

Expr6=peak\_a(1500,2000)

Form6=##0.0

MinV6=-100

MaxV6=0

Title7=Peak2\_Freq

Expr7=peak\_f(1500,2000)

Form7=###0.0##

MinV7=200

MaxV7=2700

Title8=

Expr8=

Form8=

MinV8=

MaxV8=

Title9=

Expr9=

Form9=

MinV9=

MaxV9=

Title10=

Expr10=

Form10=

MinV10=

MaxV10=

Title11=

Expr11=

Form11=

MinV11=

MaxV11=

Title12=

Expr12=

Form12=

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Title15=

Expr15=

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Title16=

Expr16=

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MaxV98=

Title99=

Expr99=

Form99=

MinV99=

MaxV99=

Title100=

Expr100=

Form100=

MinV100=

MaxV100=

ColWidth0=0

ColWidth1=0

ColWidth2=0

ColWidth3=0

ColWidth4=0

CmdsAfterScrollStep=

[WatchHistoryMemory]

PlotMaxSamples=2000

PlotMaxChannels=6

PlotFileName=plotter0.tmp

PlotExportName=pltexpt0.txt

PlotExportTimeColumn=0

PlotExportTimeFormat=YYYY-MM-DD hh:mm:ss

ColumnSeparator=0

PlotExportPeriodic=0

[WatchHistoryPlotter]

Running=0

CaptureFileName=plot.jpg

SecPerStep=1

SmallMarker=3

SmallInterval=30

LargeMarker=1

LargeInterval=2\*60

TimeLabelFormat=hh:mm

DateLabelFormat=YY-MM-DD

VertScalePenStyle=3

BkgndColor=0

GridColor=13619151

LabelColor=16777215

PenColor3=16744319

PenColor4=16711935

PenColor6=4145151

PenColor7=4194111

PenColor8=4161407

PenColor9=16728063

PenColor10=4194303

PenColor11=8355839

PenColor12=8388479

PenColor13=12550015

PenColor14=16744447

PenColor15=8388607

PenColor16=13619199

VerticalSplit=0

VSplitUpperChannels=10

LegendPos=4

LegendDetails=1

LegendFontName=Arial

LegendFontSize=9

HorzAxisFontName=Arial

HorzAxisFontSize=8

VertAxisFontName=Arial Narrow

VertAxisFontSize=8

AxisAssign0=1

AxisLabel0=dB uV / m

AxisAssign1=3

AxisLabel1=Frequency [Hz]

AxisAssign2=-1

AxisLabel2=

AxisAssign3=-1

AxisLabel3=

AxisAssign4=1

AxisLabel4=

AxisAssign5=1

AxisLabel5=

AxisAssign6=1

AxisLabel6=

AxisAssign7=1

AxisLabel7=