

## Standard Operating Procedure

```
<UsingLibrary>
```









```
include;

superapi::supercore;
superapi::superfftw;
superapi::superfiledialog;
superapi::superfilemanager;
superapi::supergroupbox;
superapi::superhook;
superapi::superlogger;
superapi::supermultimedia;
superapi::supernotedialog;
superapi::superplot;
superapi::superprogressbardialog;
superapi::supertab;
superapi::superwindow;

public;

wavdatabox public superapi::supertab;
wavdatabox::datadialog public superapi::superwindow;
```

<WavDataBox>

	<p>sliderReleased;</p> <p>set wav files' position;</p>
	<p>clicked;</p> <p>change play mode; include single,random,listloop;</p>
	<p>clicked;</p> <p>change wavfile to last;</p>
	<p>clicked;</p> <p>play wav file at treewidget highlighted; set play mode as playing;</p>
	<p>clicked;</p> <p>suspend wav file that playing; set play mode as suspended;</p>
	<p>clicked;</p> <p>resume wav file that suspended; set play mode as playing;</p>
	<p>clicked;</p> <p>change wavfile to next;</p>
	<p>clicked;</p> <p>stop play wav file; disable widget; reset Play widget;</p>

## <WavDataBox::DataDialog>

Source

clicked;

change to Source tab;

FFT

clicked;

change to FFT tab;  
not develop;

Play

clicked;

if widget text is Play,  
play wav file;  
set wav file pointer as file position;  
set widget text as Playing...;  
else  
suspend play wav file;  
set widget text as Suspended;

50 fps

nousercontrol;

display play fps;

44100(hz), 16(bits), 2(channels), 342.002(seconds)

nousercontrol;

display wav files' info;



clicked;

change mouse operate mode as select;  
adapt to source tab and FFT tab;



clicked;

change mouse operate mode as move;  
adapt to source tab and FFT tab;



clicked;

replot data;  
adapt to source tab and FFT tab;



clicked;

change refresh rate;  
include 1 fps,10 fps,computer high performance;



clicked;

change slider play mode;  
include track(default),range;



nousercontrol;

display current play mode;  
full is play all file;  
half is play selected part;

Refresh

clicked;

get selection's data on source tab;  
cal fft and display on fftcanvas;  
cal dbv;  
cal frequency;  
cal thd;



clicked;

change dbv mode;  
include peak and rms;

Version Logs

<20220404 Version 1.28>

adapted to ubuntu kde x11 platform;

<20220319 Version 1.27>

fix open wavdatabox::datadialog bugs;

<20220228 Version 1.26>

fix wavdatabox opened wavdatabox::datadialog play button disabled bug;

<20220224 Version 1.25>

fix wavdatabox::datadialog change dbv mode bugs;

<20220219 Version 1.24>

fix datadialog opened clicked treewidget function bugs;

<20220214 Version 1.23>

fix filepos perscion bugs;

<20220209 Version 1.22>

use supertab,supergroupBox api;

<20220207 Version 1.21>

fix open playing wavfiles,play button can not disabled bugs;

<20220206 Version 1.20>

add select slider track mode or range mode function;

<20220205 Version 1.19>

set time refresh rate as 200ms;

<20220202 Version 1.18>

when datadialog opened,disable wavdatabox play button for key play bugs;

<20220130 Version 1.17>

use supermultimedia playwav class timer for refresh plot;

<20220126 Version 1.16>

add keyplay function depend on superhook api;  
change default play mode as random;

<20220121 Version 1.15>

fix bugs daily;  
replace button text with button icon;

<20220113 Version 1.14>

fix bugs daily;  
add load and record function;

<20220104 Version 1.13>

fix bugs;  
add played time and fps function;

----rongsheng;

<20211130 Version 1.12>

fix delete wav file bugs;  
only stop play when delete current wavfile;

<20211126 Version 1.11>

add slidingline between with beginline and endline;  
add check function before open file;

<20211125 Version 1.10>

fix wav file selection play bug;

<20211108 Version 1.09>

add itemrightclick function;  
include open datadialog and delete;  
optization user experience;

<20211029 Version 1.08>

fix play bug,though no item selected;

<20211021 Version 1.07>

replace QMessageBox with supernotedialog;

<20211019 Version 1.06>

fix load source to fft bug;  
fix as background;

<20211013 Version 1.05>

add cal fft function;  
add fftreset plot function;  
add fftdrag plot function;  
add fftselect plot function;  
add fftdbvmode change function;

<20211011 Version 1.04>

fix multi channel pen set bug;

<20211009 Version 1.03>

add last wavfile,next wavfile function;

<20211008 Version 1.02>

add explain for every function;  
not include init function;

<20211003 Version 1.00>

first release;