

OPP System Application

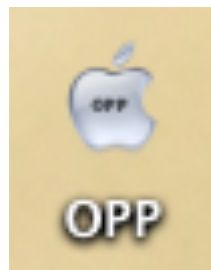
RF FATP Station
Maggie Wang
2013-11-20

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OPP 简介

- Opp是Apple公司开发的基于OS系统的一个专用于处理.csv数据的软件，免除了Excel处理数据的局限性与繁琐，在一定程度上提高了使用者的工作效率。



OPP Operation Procedure

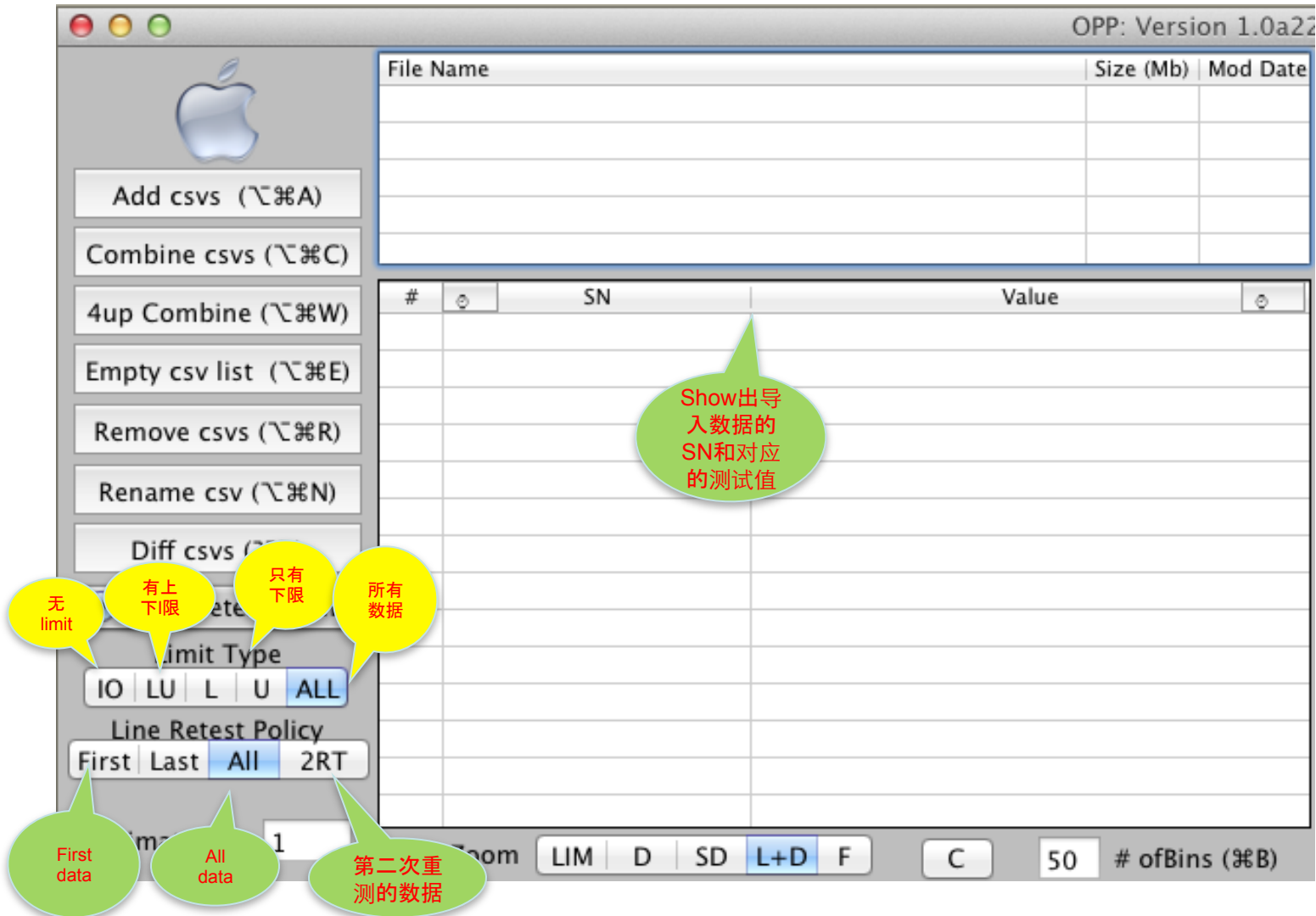
1. 先导入数据: 点Add csvs添加 或直接拖入File Name 框中
2. 若OPP中已存在不需要的csv文件, 就点Empty csv list再导入数据

添加数据


The screenshot shows the OPP software interface with several annotations in red boxes and arrows:

- 添加数据** (Add Data): Points to the Apple logo icon in the top-left corner.
- 直接在框中合并csv** (Merge CSV directly in the box): Points to the "Add csvs" button.
- 可合并两个以上csv** (Can merge more than two CSVs): Points to the "Combine csvs" button.
- 清空数据** (Clear data): Points to the "Empty csv list" button.
- 移除数据** (Remove data): Points to the "Remove csvs" button.
- 重命名csv** (Rename CSV): Points to the "Rename csv" button.
- 比较csv** (Compare CSV): Points to the "Diff csvs" button.

The interface includes a menu bar with "OPP: Version 1.0a22 -- Apple Inc. Confidential and Proprietary". The main window has a "File Name" table with columns "File Name", "Size (Mb)", and "Mod Date". Below this is a "Value" table with columns "#", "Value", and "Unit". The right side of the window has a "Test Items" table with columns "#Keys" and "# TC's". The bottom of the window has a status bar with "Decimate File: 1", "Zoom" buttons (LIM, D, SD, L+D, F, C), "50 # ofBins", "Color By: Off", and "Update" buttons (Auto Moc, LIM).



直接拖入三个csvs文件，如下图所示，单击目标数据就会有Loading data提示。




Add csvs (⌘A)
Combine csvs (⌘C)
4up Combine (⌘W)
Empty csv list (⌘E)
Remove csvs (⌘R)
Rename csv (⌘N)
Diff csvs (⌘D)

File Name	Size (Mb)	Mod Date
Station 2	4.49	2013-11
Station 4	1.82	2013-11
Station 1	4.10	2013-11

#	SN	Value

OPP: Version 1.0a22



Add csvs (⌘A)
Combine csvs (⌘C)
4up Combine (⌘W)
Empty csv list (⌘E)
Remove csvs (⌘R)
Rename csv (⌘N)
Diff csvs (⌘D)
☒ Show retest count
Limit Type

File Name	Size (Mb)	Mod Date
Station 2	4.49	2013-11
Station 4	1.82	2013-11
Station 1	4.10	2013-11

#	SN	Value

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Size (Mb)

Mod Date

GREP (MG)

4.49	2013-11	Text Items 8Keys 1412
1.82	2013-11	Product
4.10	2013-11	SerialNumber
		Special Build Name
		Unit Number
		Station ID
		Test Pass/Fail Status
		StartTime
		EndTime
		List Of Failing Tests
		Version
		Build ID

Loading DATA, Please Wait!

WOSN
tc=Pathloss:subsubtc=2402.00 tech=BT:subtc=Blue

选中要合并的多组数据再点Combine csvs, 跳出下面框图save后就自动生成合并后的csv.

OPP: Version 1.0a22

Apple logo

Add csvs (⌘A)

Combine csvs (⌘C)

4up Combine (⌘W)

Empty csv list (⌘E)

Remove csvs (⌘R)

Rename csv (⌘N)

Diff csvs (⌘D)

Show retest count

Limit Type

IO LU L U ALL

Line Retest Policy

First Last All 2RT

File Name	Size (Mb)	Mod Date
Station 2	4.49	2013-11
Station 4	1.82	2013-11
Station 1	4.10	2013-11

Save

Name and Path to Save Combined CSV

Save As:

Where:

Desktop

Cancel

Save

OPP: Version 1.0a22

Apple logo

Add csvs (⌘A)

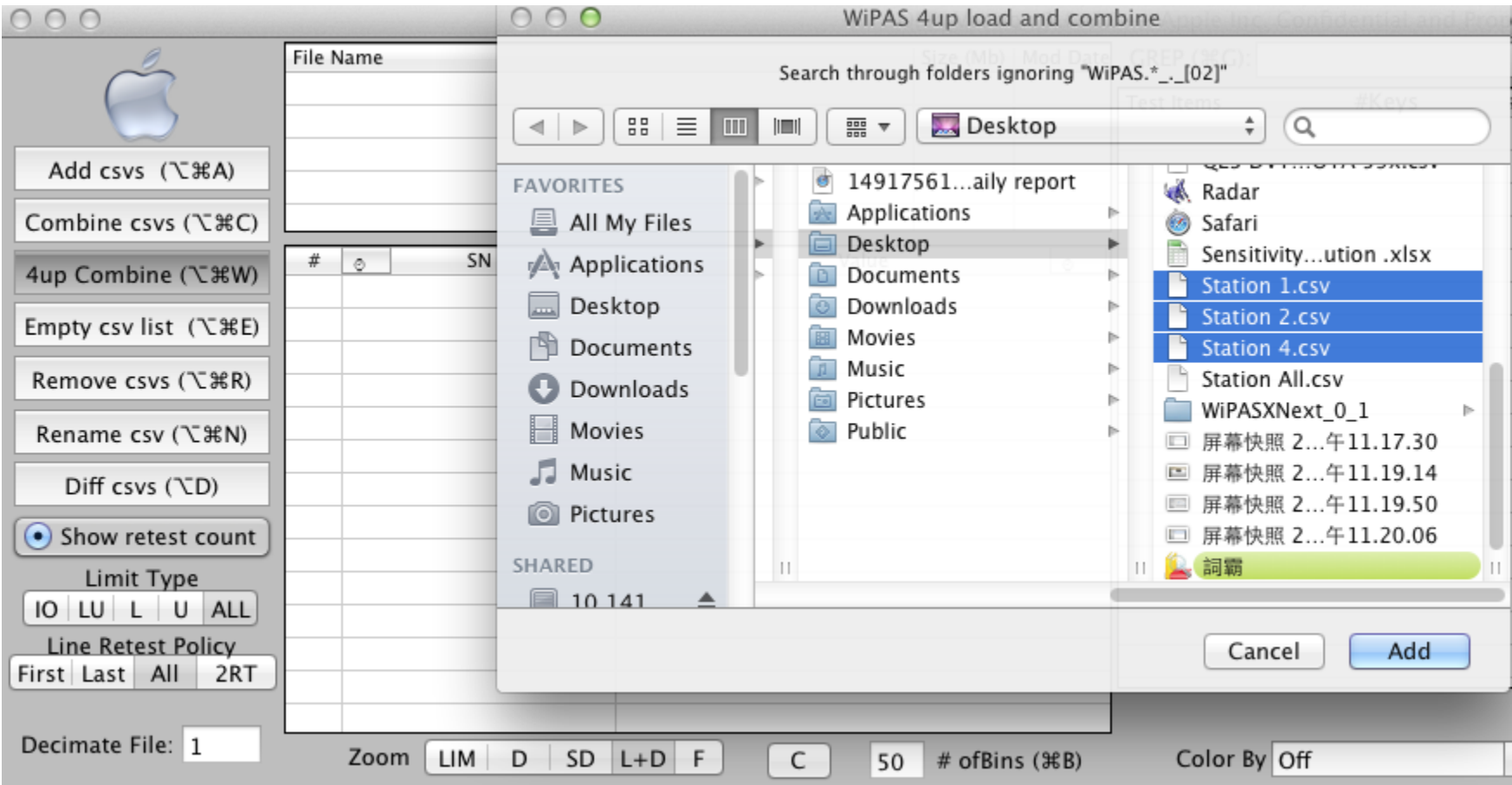
Combine csvs (⌘C)

4up Combine (⌘W)

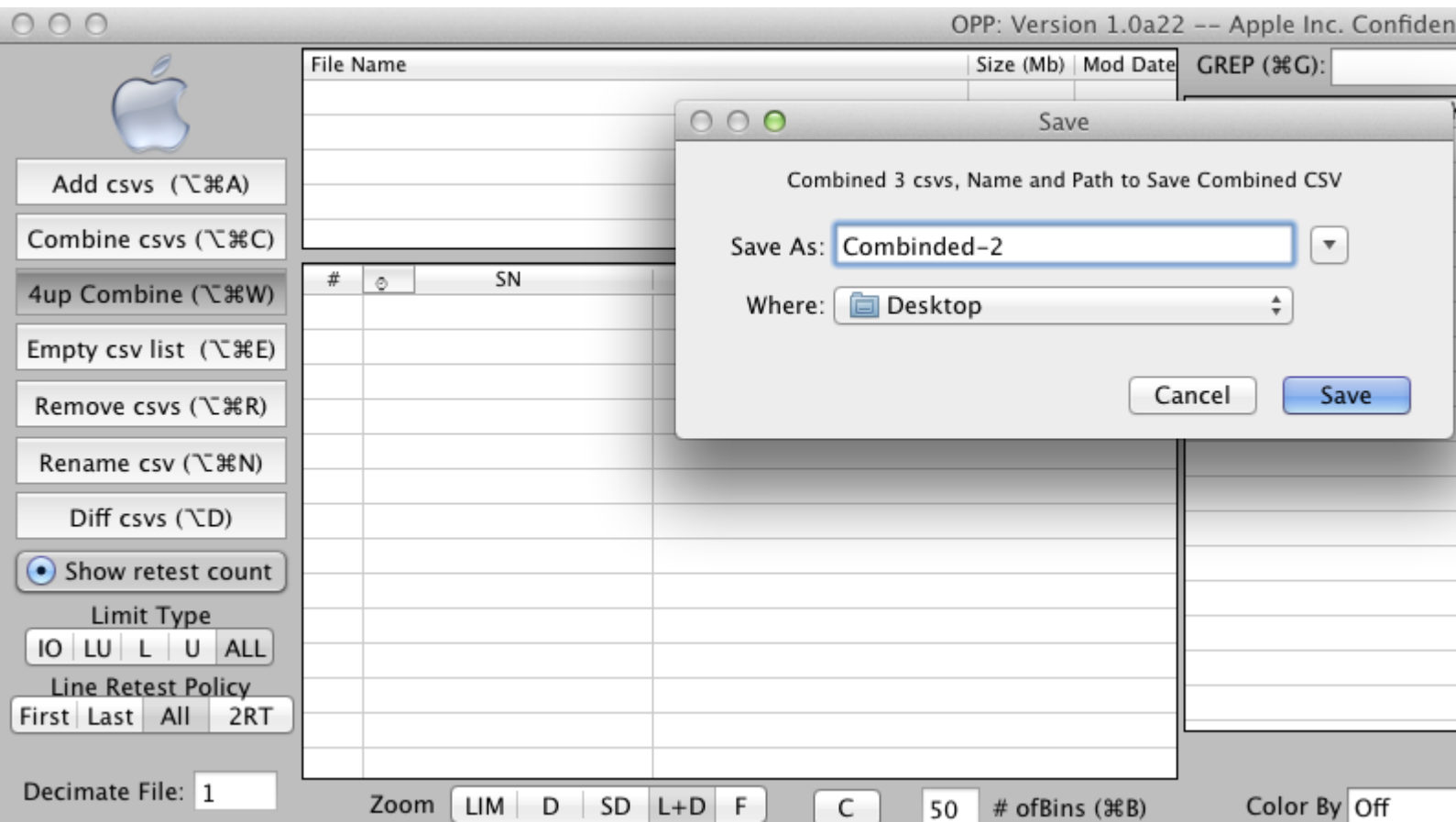
File Name	Size (Mb)	Mod Date
Station 2	4.49	2013-11
Station 4	1.82	2013-11
Station 1	4.10	2013-11
Combinded-1	16.94	2013-11

#	SN	Value
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若用4up Combine的话, 先点击4up Combine, 然后选择要合并的csvs。点Add。



点Add后，跳出以下Save框图，命名保存。



3. 在GREP框中输入关键词，替代符号为.*.

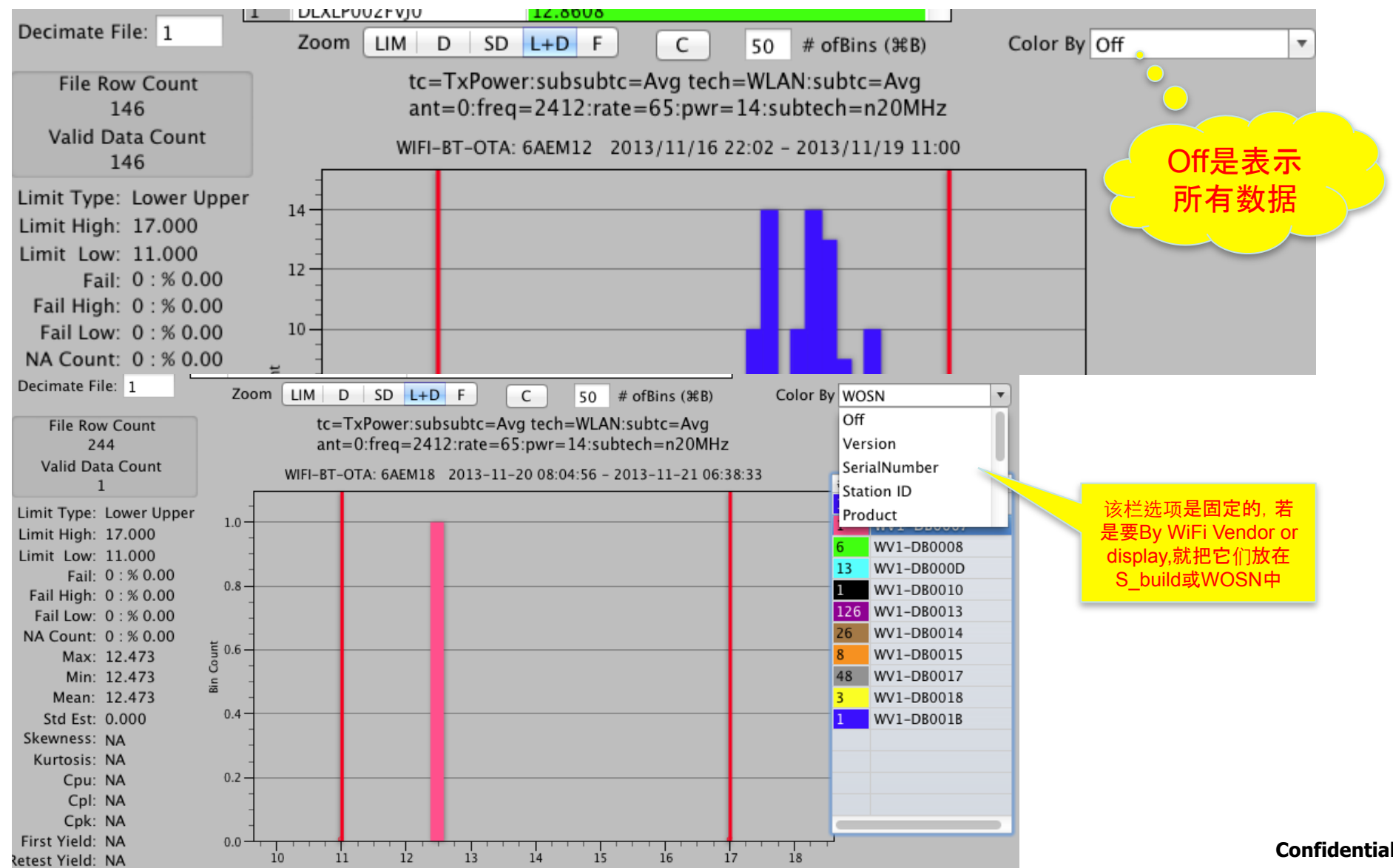
-- Apple Inc. Confidential and Proprietary

GREP (⌘G): 2412		Group Plots (⌘5)	
Test Items	#Keys 12	Low	High
tc=Sp tech=WLAN:subtc=LeastMargin ant=0:freq=2412:rate=6.5:pwr=17:subtech=n20MHz		0.00	1000.00
tc=Sp tech=WLAN:subtc=LeastMargin ant=1:freq=2412:rate=6.5:pwr=17:subtech=n20MHz		0.00	1000.00
tc=TxPower:subsubtc=Avg tech=WLAN:subtc=Avg ant=0:freq=2412:rate=65:pwr=14:subtech=n20MHz		11.00	17.00
tc=TxPower:subsubtc=Avg tech=WLAN:subtc=Avg ant=1:freq=2412:rate=65:pwr=14:subtech=n20MHz		11.00	17.00
tc=Mod:subsubtc=Avg tech=WLAN:subtc=EVM ant=0:freq=2412:rate=65:pwr=14:subtech=n20MHz		-45.00	-27.00
tc=Mod:subsubtc=Avg tech=WLAN:subtc=EVM ant=1:freq=2412:rate=65:pwr=14:subtech=n20MHz		-45.00	-27.00
tc=Mod:subsubtc=Avg tech=WLAN:subtc=FreqErr ant=0:freq=2412:rate=65:pwr=14:subtech=n20MHz		-25.00	25.00
tc=Mod:subsubtc=Avg tech=WLAN:subtc=FreqErr ant=1:freq=2412:rate=65:pwr=14:subtech=n20MHz		-25.00	25.00
tc=Mod:subsubtc=Max tech=WLAN:subtc=FreqErr ant=0:freq=2412:rate=65:pwr=14:subtech=n20MHz		-25.00	25.00
tc=Mod:subsubtc=Max tech=WLAN:subtc=FreqErr ant=1:freq=2412:rate=65:pwr=14:subtech=n20MHz		-25.00	25.00
tc=Mod:subsubtc=Min tech=WLAN:subtc=FreqErr ant=0:freq=2412:rate=65:pwr=14:subtech=n20MHz		-25.00	25.00
tc=Mod:subsubtc=Min tech=WLAN:subtc=FreqErr ant=1:freq=2412:rate=65:pwr=14:subtech=n20MHz		-25.00	25.00

GREP (⌘G): Tx.*.ant=0		Group Plots (⌘5)	
Test Items	#Keys 6	Low	High
tc=TxPower:subsubtc=Avg tech=WLAN:subtc=Avg ant=0:freq=2412:rate=65:pwr=14:subtech=n20MHz		11.00	17.00
tc=TxPower:subsubtc=Avg tech=WLAN:subtc=Avg ant=0:freq=2442:rate=65:pwr=14:subtech=n20MHz		11.00	17.00
tc=TxPower:subsubtc=Avg tech=WLAN:subtc=Avg ant=0:freq=2472:rate=65:pwr=14:subtech=n20MHz		11.00	17.00
tc=TxPower:subsubtc=Avg tech=WLAN:subtc=Avg ant=0:freq=5260:rate=65:pwr=14:subtech=n20MHz		11.00	17.00
tc=TxPower:subsubtc=Avg tech=WLAN:subtc=Avg ant=0:freq=5600:rate=65:pwr=14:subtech=n20MHz		11.00	17.00
tc=TxPower:subsubtc=Avg tech=WLAN:subtc=Avg ant=0:freq=5785:rate=65:pwr=14:subtech=n20MHz		11.00	17.00

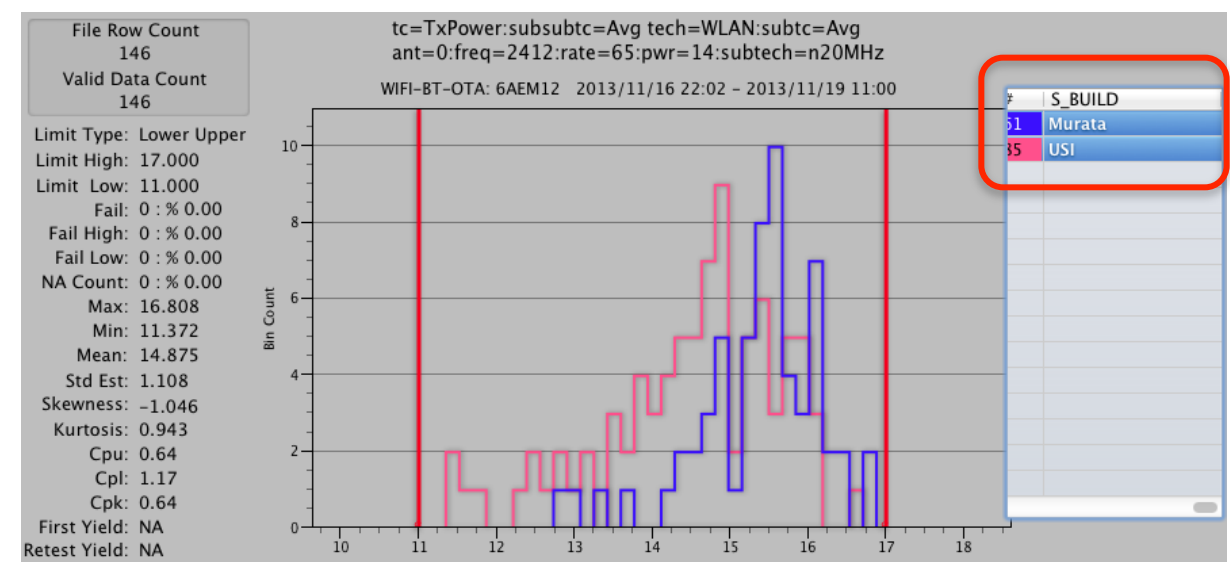
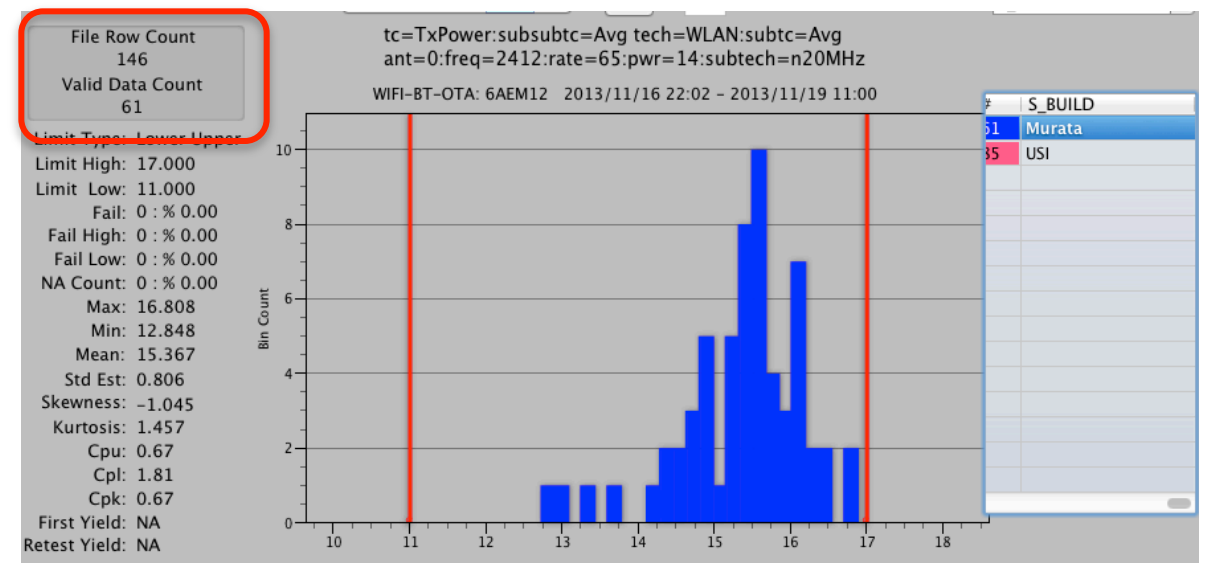
PS: 关键词区分大小写。

- 4. 若要画某个测试项的CPK, 则点中测试项, 在左下角就会有显示该项正态分布图。
- 5. 若要根据工单或Config分data, 就在Color By中选对应选项。



For example:

在处理数据时将S_build一栏中config全换成对应的WiFi Vendor, 如图。选中Murata后图中只显示Murata的正态分布。同时选中Murata和USI图中就会同时显示两者分布。



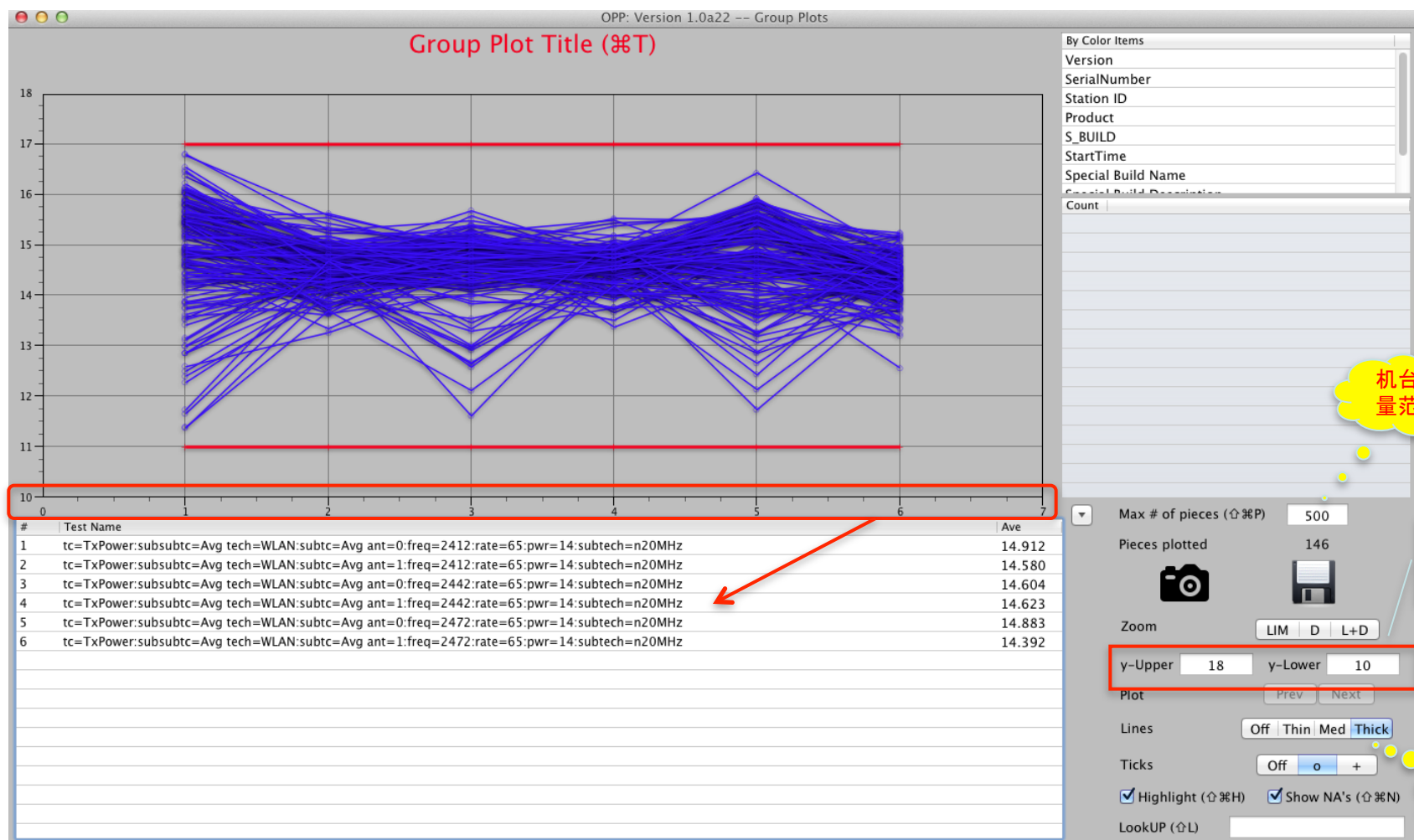
6. 若是要画多个点的分布曲线, 则先选中其测试项, 然后点击Group Plots。

GREP (⌘G): Tx.*.ant=0

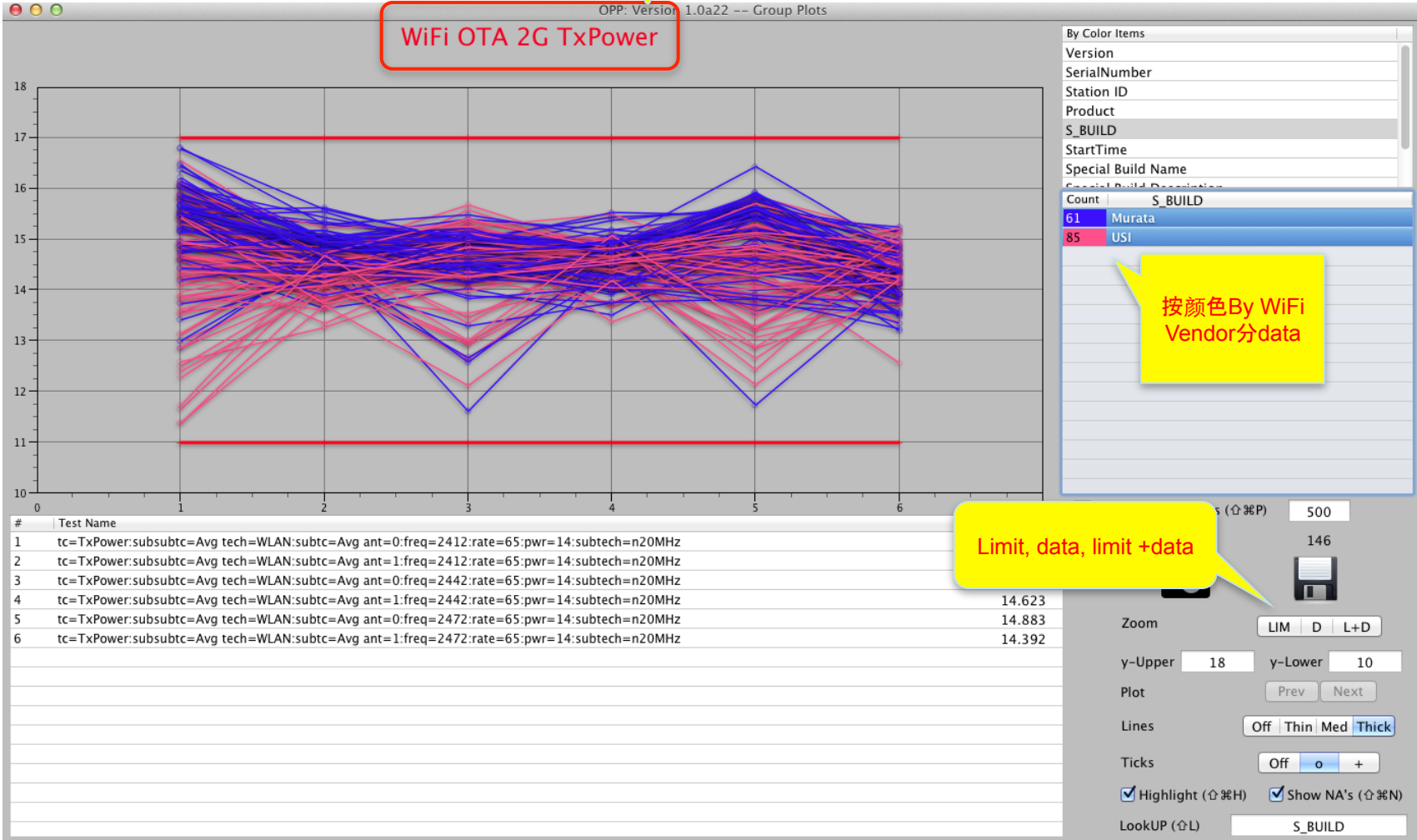
Group Plots (⌘5)

Test Items	#Keys	6	Low	High
tc=TxPower:subsubtc=Avg tech=WLAN:subtc=Avg ant=0:freq=2412:rate=65:pwr=14:subtech=n20MHz			11.00	17.00
tc=TxPower:subsubtc=Avg tech=WLAN:subtc=Avg ant=0:freq=2442:rate=65:pwr=14:subtech=n20MHz			11.00	17.00
tc=TxPower:subsubtc=Avg tech=WLAN:subtc=Avg ant=0:freq=2472:rate=65:pwr=14:subtech=n20MHz			11.00	17.00
tc=TxPower:subsubtc=Avg tech=WLAN:subtc=Avg ant=0:freq=5260:rate=65:pwr=14:subtech=n20MHz			11.00	17.00
tc=TxPower:subsubtc=Avg tech=WLAN:subtc=Avg ant=0:freq=5600:rate=65:pwr=14:subtech=n20MHz			11.00	17.00
tc=TxPower:subsubtc=Avg tech=WLAN:subtc=Avg ant=0:freq=5785:rate=65:pwr=14:subtech=n20MHz			11.00	17.00

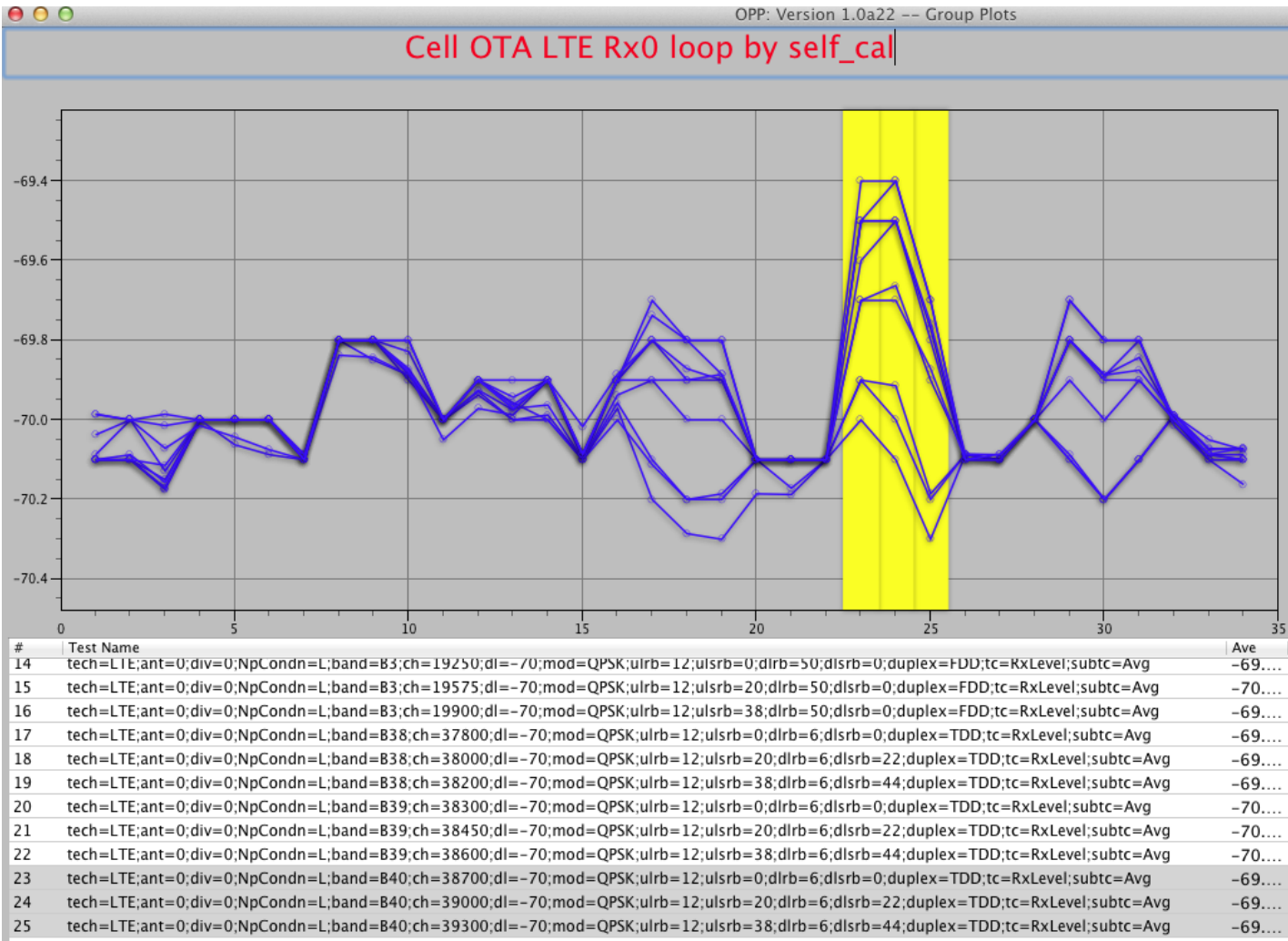
7. 在下图中再根据实际情况进行调整



改标题



9. 若要标记某几个测试项只需选中该项即可



10. 对比两个不同版本的WiPAS: 将两个csv导入后同时选中, 然后点左边Diff csvs就会出现下图右边框图。

Apple logo

Add csvs (⌘A)

Combine csvs (⌘C)

4up Combine (⌘W)

Empty csv list (⌘E)

Remove csvs (⌘R)

Rename csv (⌘N)

Diff csvs (⌘D)

Show retest count

Limit Type

IO LU L U ALL

Line Retest Policy

First Last All 2RT

Decimate File: 1

File Name

PDE_WIFI-BT-OTA_189527_20131120T

PDE_WIFI-BT-OTA_189072_20131119T

#	SN	
1	DLXLP001FVJ1	-173
1	DLXLP006FVJ1	-112
1	DLXLP008FVJ1	-97
1	DLXLP005FVJ1	-244
1	DLXLP008FVJ1	-171
1	DLXLP004FVJ0	-241
1	DLXLP003FVJ0	-197
1	DLXLP008FVJ0	-288
1	DLXLP006FVJ0	-222
1	DLXLP001FVJ0	-184
1	DLXLP008FVJ0	-411
1	DLXLP007FVJ1	-146
1	DLXLP007FVJ0	-308
1	DLXLP002FVJ0	-272

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All Items | **Diff Only**

GREP (⌘G):

Test Item	File1 Low	File1 High	File2 Low	File2 High
tc=Sensitivity:subsubtc=-60 tech=WLAN:subtc=PER ant=0:freq=2412:rate=65:subtech=n2...	Missing	Missing	NA	NA
tc=Sensitivity:subsubtc=-60 tech=WLAN:subtc=PER ant=1:freq=2412:rate=65:subtech=n2...	Missing	Missing	NA	NA
tc=Sensitivity:subsubtc=-61 tech=WLAN:subtc=PER ant=0:freq=2412:rate=65:subtech=n2...	Missing	Missing	NA	NA
tc=Sensitivity:subsubtc=-61 tech=WLAN:subtc=PER ant=1:freq=2412:rate=65:subtech=n2...	Missing	Missing	NA	NA
tc=Sensitivity:subsubtc=-62 tech=WLAN:subtc=PER ant=0:freq=2412:rate=65:subtech=n2...	Missing	Missing	NA	NA
tc=Sensitivity:subsubtc=-62 tech=WLAN:subtc=PER ant=1:freq=2412:rate=65:subtech=n2...	Missing	Missing	NA	NA
tc=Sensitivity:subsubtc=-63 tech=WLAN:subtc=PER ant=0:freq=2412:rate=65:subtech=n2...	Missing	Missing	NA	NA
tc=Sensitivity:subsubtc=-63 tech=WLAN:subtc=PER ant=1:freq=2412:rate=65:subtech=n2...	Missing	Missing	NA	NA
tc=Sensitivity:subsubtc=-64 tech=WLAN:subtc=PER ant=0:freq=2412:rate=65:subtech=n2...	Missing	Missing	NA	NA
tc=Sensitivity:subsubtc=-64 tech=WLAN:subtc=PER ant=1:freq=2412:rate=65:subtech=n2...	Missing	Missing	NA	NA
tc=Sensitivity:subsubtc=-65 tech=WLAN:subtc=PER ant=0:freq=2412:rate=65:subtech=n2...	Missing	Missing	NA	NA
tc=Sensitivity:subsubtc=-65 tech=WLAN:subtc=PER ant=1:freq=2412:rate=65:subtech=n2...	Missing	Missing	NA	NA
tc=Sensitivity:subsubtc=-66 tech=WLAN:subtc=PER ant=0:freq=2412:rate=65:subtech=n2...	Missing	Missing	NA	NA
tc=Sensitivity:subsubtc=-66 tech=WLAN:subtc=PER ant=1:freq=2412:rate=65:subtech=n2...	Missing	Missing	NA	NA
tc=Sensitivity:subsubtc=-67 tech=WLAN:subtc=PER ant=0:freq=2412:rate=65:subtech=n2...	Missing	Missing	NA	NA
tc=Sensitivity:subsubtc=-67 tech=WLAN:subtc=PER ant=1:freq=2412:rate=65:subtech=n2...	Missing	Missing	NA	NA
tc=Sensitivity:subsubtc=-68 tech=WLAN:subtc=PER ant=0:freq=2412:rate=65:subtech=n2...	Missing	Missing	NA	NA

Missing表示该csv
中没有该测试项。

Thanks!