

# OBUE Script

GUI

center freq,  
channel\_bw, res\_bw,  
sweep\_time,  
testbench

Test

Calculate individual  
span ranges to 3gpp  
spec

1

4

Script  
unit

sweep\_time, res\_bw,  
start, stop. testbench

calc number of points  
 $\text{points} = 2 * \text{span} / \text{rbw}$

unit conversions and  
house keeping math

Establish visa  
connection

Reset FSW and enter  
remote mode.

Apply noise  
correction

Apply test bench  
correction file

Set to single sweep  
mode

Set sweep time

Set resolution  
bandwidth

Set start and stop  
frequency range

Detect RMS from  
window 1

insert  
trigger  
here

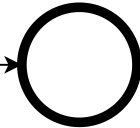
Sweep

Reset markers and  
Trace

Find peak in trace

Log frequency and  
amplitude at span  
peak

Calc:  
 $\text{TRP} = \text{Pk\_Amp} + \text{mAM Gain} - \text{RA Gain}$



['Name'], ['Span Start'], ['Span Stop'],  
['Number Points'], ['mAM Gain'], ['RA  
Gain'], ['Pk Frequency'], ['Pk  
Amplitude'], ['TRP']

Display  
in GUI

write to csv

Activity flow for OBUE script sans pre processing helper done in the OBUE\_Test class. OBUE is unique because the script represents a unit case to test for a single TRP measurment in the span and the repetition is provided client python side instead of through the FSW

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[https://gitlab2.ext.net.nokia.com/anttang/FSW\\_Automation](https://gitlab2.ext.net.nokia.com/anttang/FSW_Automation)