

| Alpha | Test | Pla | n |
|-------|------|-----|----|
| USB B | ASIC | v1 | .3 |

| Tester Name: | |
|------------------------|-------------------------------------|
| Date Completed: | |
| Environment(s) Tested: | AquaLite S2 + Micro Expander Option |

E1

Setup

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|---------|-------------|----------------------|--|---|-----------------------------------|-----------|----------|-----------|
| E-1.0.0 | AL S2 + MX | Setup AquaLite v1.36 | | | | | | |
| E-1.0.1 | AL S2 + MX | | Download & install AquaLite v1.36 from https://aquarius.je/aqualite (unzip files) | AquaLite v1.36 is downloaded and installed on your system. | | | | |
| E-1.0.2 | AL S2 + MX | | | System should boot into "BASIC Press RETURN key to start" flashing screen. Menubar should say AquaLite v1.36 . | | | | |
| E-1.0.3 | AL S2 + MX | | Within AquaLite v1.36, go to menu option Tool > Options, select the Peripherals tab, and make sure Micro Expander is checked. Click Ok. | System should beep and reboot. | | | | |
| E-1.0.4 | AL S2 + MX | | · | The "About USB BASIC" screen should be displayed. Release Date should show "Alpha 2023-05-07". | | | | |
| E-1.0.5 | ALS2 + MX | | Press any key to exit the About screen. | The "Aquarius MX USB BASIC v1.3" screen should be displayed. | | | | |
| E-1.0.6 | AL S2 + MX | | Note: This screen is the starting point for most tests in this plan. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|-----------|--------------|----------------------|--|---|-----------------------------------|-----------|----------|--|
| E-1.1.0 | AL S2 + MX | Test legacy commands | | | | | | |
| E-1.1.1.1 | AL S2 + MX | Test CALL xx | From the USB BASIC command screen type CALL \$8000 and hit | The cursor should move down one row, and the system should freeze. | | | | |
| | | | RETURN | | | | | |
| E-1.1.1.2 | AL S2 + MX | | From the AquaLite menu, select File > Hard Reset, and then hit the | The "Copyright © 1982 by Microsoft, Inc S2" screen should be | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on | | | | 1 |
| | | | | the next line with a cursor below. | | | | |
| E-1.1.1.3 | AL S2 + MX | | From the USB BASIC command screen type CALL -32768 and hit | The cursor should move down one row, and the system should freeze. | | | | 1 1 |
| | | | RETURN | | | | | |
| E-1.1.1.4 | AL S2 + MX | | From the AquaLite menu, select File > Hard Reset, and then hit the | The "Copyright © 1982 by Microsoft, Inc S2" screen should be | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on | | | | 1 |
| | | | | the next line with a cursor below. | | | | |
| E-1.1.1.5 | AL S2 + MX | | From the USB BASIC command screen type CALL 32768 (NO minus | The cursor should move down one row, and the system should freeze. | | | | 1 |
| | | | sign!) and hit RETURN | | | | | |
| E-1.1.1.6 | AL S2 + MX | | From the AquaLite menu, select File > Hard Reset, and then hit the | The "Copyright © 1982 by Microsoft, Inc S2" screen should be | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on | | | | |
| | | | | the next line with a cursor below. | | | | |
| E-1.1.2 | AL S2 + MX | Test CAT | From the USB BASIC command screen type CAT and hit RETURN | System should display a brief listing of the contents of the USB folder | | | | |
| | | | | within the AquaLite program folder, followed by Ok beneath. Note | | | | |
| | | | | that the contents can vary from system to system. | | | | 1 |
| E-1.1.3.1 | AL S2 + MX | Test CD | From the USB BASIC command screen type CD and hit RETURN | The cursor should move down one row, and a / character should be | | | | |
| E-1.1.3.1 | AL SZ + IVIX | lest CD | From the USB BASIC command screen type CD and nit RETURN | displayed, followed by Ok beneath. | | | | 1 |
| E-1.1.3.2 | AL S2 + MX | | From the USB BASIC command screen type CD"ROMS" and hit | The cursor should move down one row and display Ok beneath. | | | | ++ |
| E-1.1.5.2 | AL 32 + IVIX | | RETURN | The cursor should move down one row and display ok beneath. | | | | 1 |
| E-1.1.4 | AL S2 + MX | Test DIR | From the USB BASIC command screen type DIR and hit RETURN | System should display a detailed listing of the contents of the USB > | | | | |
| E-1.1.4 | AL 32 + IVIX | lest DIK | From the OSB BASIC command screen type DIR and the RETORN | ROMS folder within the AquaLite program folder, followed by Ok | | | | |
| | | | | beneath. Note that the RETURN/ENTER key may have to be pressed | | | | |
| | | | | one or more times to scroll through the full list of contents. | | | | |
| | | | | one of more times to scroll through the full list of contents. | | | | |
| E-1.1.5.1 | AL S2 + MX | Test CLS | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok in black letters on a cyan | | | | |
| | | | ,, | background. | | | |] |
| E-1.1.5.2 | AL S2 + MX | | From the USB BASIC command screen type CLS 8 and hit RETURN | System should clear the screen and show Ok in black letters on a grey | | | | |
| | | | | background. | | | | 1 ! |
| E-1.1.5.3 | AL S2 + MX | | From the USB BASIC command screen type CLS \$7D and hit RETURN | System should clear the screen and show Ok in white letters on a dark | | | | |
| | | | | green background. | | | | |
| E-1.1.5.4 | AL S2 + MX | | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok in black letters on a cyan | | | | |
| | | | | background. | | | 1 | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|------------|-------------|------------------------|--|--|-----------------------------------|-----------|----------|-----------|
| E-1.1.6.1 | AL S2 + MX | Test SAVE a BASIC file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | i ' |
| E-1.1.6.2 | AL S2 + MX | | From the USB BASIC command screen type the code below and hit RETURN after each line: 10 REM Testing SAVE 20 CLS 30 PRINT "Hello" | System should show each line typed, and move down to the empty line beneath. | | | | |
| E-1.1.6.3 | AL S2 + MX | | From the USB BASIC command screen type LIST and hit RETURN | System should show all three lines in the program and display Ok beneath. | | | | |
| E-1.1.6.4 | AL S2 + MX | | From the USB BASIC command screen type SAVE "TEST01.BAS" and hit RETURN | The cursor should move down one row and display Ok beneath. In the USB > ROMS folder within the AquaLite program folder, there should be a new file named TEST01.BAS. | | | | |
| E-1.1.6.5 | AL S2 + MX | | From the USB BASIC command screen type CAT and hit RETURN | System should display a brief listing of the contents of the folder, and the "TESTO1.BAS" file should be lised among those files. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents. | | | | |
| E-1.1.7.1 | AL S2 + MX | Test LOAD a BASIC file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| E-1.1.7.2 | AL S2 + MX | | From the USB BASIC command screen type LIST and hit RETURN | System should display NO PROGRAM LINES with Ok beneath. | | | | |
| E-1.1.7.3 | AL S2 + MX | | From the USB BASIC command screen type LOAD "TEST01.BAS" and hit RETURN | System should display Ok beneath. | | | | |
| E-1.1.7.4 | AL S2 + MX | | From the USB BASIC command screen type LIST and hit RETURN | System should show all three lines in the program listed in test E- 1.1.6.2 and display Ok beneath. | | | | |
| E-1.1.8.1 | AL S2 + MX | Test RUN a BASIC file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| E-1.1.8.2 | AL S2 + MX | | From the USB BASIC command screen type RUN "TEST01.BAS" and hit RETURN | System should clear the screen, print Hello at the top, and display Ok beneath. | | | | |
| E-1.1.9.1 | AL S2 + MX | Test DEL | From the USB BASIC command screen type DEL "TEST01.BAS" and hit RETURN | System should display Ok beneath. | | | | |
| E-1.1.9.2 | AL S2 + MX | | From the USB BASIC command screen type CAT and hit RETURN | System should display a brief listing of the contents of the folder, and the "TEST01.BAS" file SHOULD NOT be lised among those files. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents. | | | | |
| E-1.1.10.1 | ALS2 + MX | Test SAVE a BIN file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| E-1.1.10.2 | AL S2 + MX | | From the USB BASIC command screen type the code below and hit RETURN after each line: 10 REM Testing SAVE BIN 20 POKE \$8000,97,98,99,100 30 PRINT "Done" | System should show each line typed, and move down to the empty line beneath. | | | | |
| E-1.1.10.3 | AL S2 + MX | | From the USB BASIC command screen type LIST and hit RETURN | System should show all three lines in the program and display Ok beneath. | | | | |
| E-1.1.10.4 | AL S2 + MX | | From the USB BASIC command screen type RUN and hit RETURN | System should print Done and display Ok beneath the program listing. | | | | |
| E-1.1.10.5 | AL S2 + MX | | From the USB BASIC command screen type CD "/" and hit RETURN | System should display Ok beneath. | | | | |
| E-1.1.10.6 | AL S2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: SAVE "POKE.BIN", \$8000, 4 | System should display Ok beneath. | | | | |
| E-1.1.10.7 | AL S2 + MX | | From the USB BASIC command screen type DIR and hit RETURN | System should display a detailed listing of the contents of the USB folder within the Aqualite program folder, and the file named "POKE.BIN" should be listed in the contents. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll past the full list of contents. | | | | |
| E-1.1.11.1 | AL S2 + MX | Test LOAD a BIN file | From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-1.1.11.2 | AL S2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: LOAD "POKE.BIN", \$3242 | System should display abcd in the middle of the screen, with Ok beneath the text you just typed. | | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|------------|-------------|---------------------|--|--|-----------------------------------|-----------|----------|-----------|
| E-1.1.12.1 | AL S2 + MX | Test RUN a ROM file | From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-1.1.12.2 | AL S2 + MX | | From the USB BASIC command screen type CD"ROMS" and hit RETURN | The cursor should move down one row and display Ok beneath. | | | | |
| E-1.1.12.3 | AL S2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: RUN "SNAFU.ROM" | System should load the SNAFU game ROM and display the SNAFU title screen. | | | | |
| E-1.1.12.4 | AL S2 + MX | | From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-1.1.13.1 | AL S2 + MX | Test DEBUG | From the USB BASIC command screen type DEBUG and hit RETURN | The AQUBUG screen should pop up with white text on a blue background. | | | | |
| E-1.1.13.2 | AL S2 + MX | | On the AQUBUG screen type the letter Q | System should return to the USB BASIC command screen, showing the DEBUG command with Ok beneath. | | | | |
| E-1.1.14.1 | AL S2 + MX | Test HEX\$ | From the USB BASIC command screen type the code below and hit RETURN: PRINT HEX\$ (12288) | System should display 3000 on the next line with Ok beneath. | | | | |
| E-1.1.14.2 | AL S2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: PRINT HEX\$ (-123) | System should display FF85 on the next line with Ok beneath. | | | | |
| E-1.1.14.3 | AL S2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: PRINT HEX\$ (65535) | System should display FFFF on the next line with Ok beneath. | | | | |
| E-1.1.15 | AL S2 + MX | Test JOY | From the USB BASIC command screen type the code below and try to type RETURN and the 1 key at about the same time (maybe a slight delay before the 1 key): PRINT JOY (0) | System should display 64 on the next line with Ok beneath. If you weren't able to get it to work exactly right, a 0 might be displayed instead of the 64. Try a couple of times to get it to work, if you can. | | | | |
| E-1.1.16 | AL S2 + MX | Test IN | From the USB BASIC command screen type the code below and hit RETURN: PRINT IN (\$FF) | System should display 247 on the next line with Ok beneath. | | | | |
| E-1.1.17.1 | AL S2 + MX | Test PSG | From the USB BASIC command screen type the code below and hit RETURN: PSG 8,15,0,148,1,1,7,56 | System should play a Db4 tone continuously. | | | | |
| E-1.1.17.2 | AL S2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: PSG 8,0,7,0 | System should stop playing the tone. | | | | |
| E-1.1.18.1 | AL S2 + MX | Test OUT | From the USB BASIC command screen type the code below and hit RETURN: PSG 8,15,0,148,1,1,7,56 | System should play a Db4 tone continuously and print Ok beneath. | | | | |
| E-1.1.18.2 | AL S2 + MX | | From the USB BASIC command screen type the code below and hit RETURN after each line: OUT 247,8 OUT \$56,0 | System should print Ok after each RETURN, and then should stop playing the tone after the second. | | | | |
| E-1.1.19.1 | AL S2 + MX | Test EDIT | From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-1.1.19.2 | AL S2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: 10 REM Testing EDIT | System should show each line typed, and move down to the empty line beneath. | | | | |
| E-1.1.19.3 | AL S2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: EDIT 10 | System should list the previously entered line 10 with a blue cursor and white text positioned over the R in the REM command. | | | | |
| E-1.1.19.4 | AL S2 + MX | | Within the line 10 edit with the cursor on the R of REM, press the SPACE bar to insert a space between the line number 10 and the REM statement. | System should display line 10 with a SPACE between the 10 and the REM command. | | | | |
| E-1.1.19.5 | AL S2 + MX | | Within the line 10 edit with the cursor on the R of REM, CTRL +/ eleven times so the cursor is on top of the SPACE after the word Testing. | System should list the previously entered line 10 with a blue cursor and white text positioned over the SPACE after the word Testing. | | | | |
| E-1.1.19.6 | AL S2 + MX | | Within the line 10 edit with the cursor on the SPACE between the word Testing and EDIT, press the DELETE/BACKSPACE key three times to delete the letters "ing" at the end of the word Testing. | System should list the previously entered line 10 with a blue cursor and white text positioned over the SPACE before the word EDIT. | | | | |
| E-1.1.19.7 | AL S2 + MX | | Within the line 10 edit with the cursor on the SPACE between the word Test and EDIT, press CTRL + P eight times so the cursor is over the letter R in REM, and then hit RETURN/ENTER. | The cursor should go to the line beneath line 10, and should NOT display Ok beneath. | | | | |
| E-1.1.19.8 | AL S2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: LIST 10 | System should display a blank line, then list line 10 again, with Ok beneath. | | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|------------|-------------|---------------|---|---|-----------------------------------|-----------|----------|-----------|
| E-1.1.20.1 | AL S2 + MX | Test LOCATE | From the USB BASIC command screen type the code below and hit RETURN after each line: 10 CLS 20 LOCATE 20,12 30 PRINT CHR\$(KEY(0)) | System should show each line typed, and move down to the empty line beneath. | | | | |
| E-1.1.20.2 | AL S2 + MX | | From the USB BASIC command screen type RUN and hit RETURN | System should move the cursor to the middle of the screen. | | | | |
| E-1.1.20.3 | AL S2 + MX | | | System should display a "g" in the middle of the screen, then go to the next line and print Ok beneath. | | | | |
| E-1.1.20.4 | AL S2 + MX | | | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-1.1.21.1 | AL S2 + MX | Test CTRL + C | RETURN. Stay on the AquaLite menu. | The "Aquarius MX USB BASIC v1.3" screen should be displayed. There should NOT be an option near the bottom that says " <ctrl+c> Warm Start"</ctrl+c> | | | | |
| E-1.1.21.2 | AL S2 + MX | | | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-1.1.21.3 | AL S2 + MX | | , , , | The "Aquarius MX USB BASIC v1.3" screen should be displayed. There SHOULD be an option near the bottom that says " <ctrl+c> Warm Start"</ctrl+c> | | | | |
| E-1.1.21.4 | AL S2 + MX | | | A blank screen with "Break", followed by "Ok" on the next line with a cursor below. | | | | |
| | | | PLEASE CONTINUE | EVEN IF ALL TESTS IN THIS SECTION DID NOT PAS | S. | | | |

| New Comm | | | _ | | | | | |
|-----------|------------|--------------------------|--|--|-----------------------------------|-----------|----------|-----------|
| Test No | | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
| E-1.2.0 | AL S2 + MX | Test NEW commands | | | | | | |
| E-1.2.1.1 | AL S2 + MX | Test POKE auto-increment | From the AquaLite menu, select File > Hard Reset, and then hit the | The "Copyright © 1982 by Microsoft, Inc S2" screen should be | | | | 1 |
| | | | RETURN/ENTER key to go to USB BASIC. | displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on | | | | 1 |
| | | | | the next line with a cursor below. | | | | 1 |
| E-1.2.1.2 | AL S2 + MX | | From the USB BASIC command screen type the code below and hit | The screen should print abcd in a row towards the middle bottom of | | | | |
| | | | RETURN: | the screen. | | | | |
| | | | POKE 12945,97,98,99,100 | | | | | <u> </u> |
| E-1.2.2.1 | AL S2 + MX | Test POKE range | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok. | | | | |
| | | | | | | | | |
| E-1.2.2.2 | AL S2 + MX | | From the USB BASIC command screen type the code below and hit | The screen should print aaaaaaaaa (nine letter a's) in a row towards | | | | |
| | | | RETURN: | the middle bottom of the screen. | | | | į . |
| | | | POKE \$3291 TO \$3299,97 | | | | | |
| E-1.2.3.1 | AL S2 + MX | Test POKE step | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok. | | | | |
| | | | | | | | | <u> </u> |
| E-1.2.3.2 | AL S2 + MX | | From the USB BASIC command screen type the code below and hit | The screen should print aaa (three letter a's) in a downward line at the | | | | |
| | | | RETURN: | middle bottom of the screen. | | | | į . |
| | | | POKE \$3291,97,STEP 40,97,STEP 40,97 | | | | | <u> </u> |
| E-1.2.4.1 | AL S2 + MX | Test POKE strings | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok. | | | | |
| | | | | | | | | |
| E-1.2.4.2 | AL S2 + MX | 1 | From the USB BASIC command screen type the code below and hit | The screen should print the words Hubba Bubba stacked on top of | | | | |
| | | | RETURN: | each other at the middle bottom of the screen. | | | | į . |
| | | | POKE \$3291, "Hubba", STEP 40, "Bubba" | | | | | |
| E-1.2.5.1 | AL S2 + MX | Test COPY | From the AquaLite menu, select File > Hard Reset, and then hit the | The "Copyright © 1982 by Microsoft, Inc S2" screen should be | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on | | | | į . |
| | | | | the next line with a cursor below. | | | | |
| E-1.2.5.2 | AL S2 + MX | | From the USB BASIC command screen type the code below and hit | The text at the top of the screen ("Copyright © 1982 by Microsoft, Inc | | | | |
| | | | RETURN: | S2" & "USB BASIC v1.3" should be duplicated in the middle of the | | | | |
| | | | COPY \$3000,\$3000+440,120 | screen, with the Ok beneath the COPY command near the top. | | | | |
| | | | | | | | | <u> </u> |
| E-1.2.6.1 | AL S2 + MX | Test ATN | From the AquaLite menu, select File > Hard Reset, and then hit the | The "Copyright © 1982 by Microsoft, Inc S2" screen should be | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on | | | | |
| | | | | the next line with a cursor below. | | | | |
| E-1.2.6.2 | AL S2 + MX | | From the USB BASIC command screen type the code below and hit | System should display .785398 on the next line with Ok beneath. | | | | į . |
| | | | RETURN: | | | | | |
| | | | PRINT ATN(1) | | | | | |
| E-1.2.7.1 | AL S2 + MX | Test DEC | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| | |] | | | | | | |
| E-1.2.7.2 | AL S2 + MX | 1 | From the USB BASIC command screen type the code below and hit | System should display 22015 on the next line with Ok beneath. | | | l | 1 |
| | | | RETURN: | | | | | 1 |
| | | | PRINT DEC("55FF") | | | 1 | | |
| E-1.2.8.1 | AL S2 + MX | Test DEEK | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | l | 1 |
| | |] | | | | | | |
| E-1.2.8.2 | AL S2 + MX | 1 | From the USB BASIC command screen type the code below and hit | System should display 6B4F on the next line with Ok beneath. (\$4F is | | | 1 | |
| | | 1 | RETURN: | the "O" character and \$6B is the "k" character from the top left of the | | | l | 1 |
| | | | PRINT HEX\$ (DEEK (12288+41)) | screen.) | | | | |
| | | | | | | | | |

| E-1,2,9,2 AL : | L S2 + MX | Test DOKE | DOKE 12288+41,\$6948 | System should clear the screen and show Ok . System should display Hi at the top left of the screen and show Ok | | |
|-----------------|-----------|------------------|--|--|--|-------------|
| E-1.2.10.1 ALS | L S2 + MX | Test KEY | RETURN: DOKE 12288+41,\$6948 | | | |
| E-1.2.10.1 ALS | L S2 + MX | Test KEY | RETURN: DOKE 12288+41,\$6948 | | | |
| E-1.2.10.2 AL S | | Test KEY | | beneath the DOKE command line. (\$48 is the "H" character and \$69 is | | l |
| E-1.2.10.2 AL S | | Test KEY | | the "i" character.) | | |
| | L S2 + MX | | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | |
| E-1.2.10.3 AL S | | | From the USB BASIC command screen type the code below and hit RETURN after each line: | System should show each line typed, and move down to the empty line beneath. | | l |
| E-1.2.10.3 AL 5 | | | 10 CLS 42 | illie beneatri. | | l |
| E-1.2.10.3 ALS | | | 20 LOCATE 20,12 30 PRINT CHR\$(KEY(0)) | | | |
| | L S2 + MX | | From the USB BASIC command screen type RUN and hit RETURN | System should clear the screen to GREEN letters on a PURPLE | | |
| | | | | background and move the GREEN cursor to the middle of the screen, waiting for input. | | |
| E-1.2.10.4 ALS | L S2 + MX | | With the cursor in the middle of the screen, press the M key (without the SHIFT key pressed). | System should display a "m" in the middle of the screen, then go to the next line and print Ok beneath. | | |
| E-1.2.11.1 ALS | L S2 + MX | Test SDTM | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | |
| E-1.2.11.2 AL | L S2 + MX | | From the USB BASIC command screen type the code below and hit | System should display Ok beneath. (Note: On AquaLite, there is no | | |
| | | | RETURN: | way to actually SET the DateTime, so it will stay set to the hosting | | l |
| 510110 | | | SDTM "230517010101" | computer's system clock.) | | |
| E-1.2.11.3 AL | L S2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: | System should display SN Error beneath. | | l |
| | | | SDTM "kkk" | | | |
| E-1.2.12.1 ALS | L S2 + MX | Test DTM\$ | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | |
| E-1.2.12.2 AL | L S2 + MX | | From the USB BASIC command screen type the code below and hit | System should display a string with the current date and time, | | |
| | | | RETURN: PRINT DTM\$(0) | formatted YYMMDDHHMMSSCC, with Ok beneath. | | |
| E-1.2.12.3 AL | L S2 + MX | | From the USB BASIC command screen type the code below and hit | System should display a string with the current date and time, | | |
| | | | RETURN: PRINT DTM\$(1) | formatted YYYY-MM-DD HH:MM:SS, with Ok beneath. Note that the Century is assumed to be 20, and the hours are in 24 hour format. | | l |
| | | | | | | |
| E-1.2.12.4 AL | L S2 + MX | | | System should display a string with the current date, formatted YYYY- | | l |
| | | | RETURN: PRINT LEFT\$ (DTM\$ (1),10) | MM-DD, with Ok beneath. Note that the Century is assumed to be 20. | | l |
| E-1.2.12.5 AL | L S2 + MX | | From the USB BASIC command screen type the code below and hit | System should display a string with the current time, formatted | | |
| | | | RETURN: PRINT RIGHT(DTM\$(1),8)) | HH:MM:SS, with Ok beneath. Note that the hours are in 24 hour | | l |
| E-1.2.13.1 ALS | L S2 + MX | Test VER | From the USB BASIC command screen type CLS and hit RETURN | format. System should clear the screen and show Ok . | | |
| | | | | | | |
| E-1.2.13.2 AL | L S2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: | System should display 0103, with Ok beneath. | | l |
| | | | PRINT HEX\$(VER(0)) | | | l |
| E-1.2.13.3 AL | L S2 + MX | | From the USB BASIC command screen type the code below and hit | System should display 1, with Ok beneath. | | |
| | | | RETURN: PRINT VAL(LEFT\$(HEX\$(VER(0)),2)) | | | l |
| E-1.2.13.4 AL | L S2 + MX | | From the USB BASIC command screen type the code below and hit | System should display 3, with Ok beneath. | | |
| | | | RETURN: | | | l |
| E-1.2.14.1 ALS | L S2 + MX | Test DEF FN / FN | PRINT VAL (RIGHT\$ (HEX\$ (VER (0)), 2)) From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | |
| | | | | | | |
| | LS2 + MX | | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | <u></u> |
| E-1.2.14.3 AL | L S2 + MX | | From the USB BASIC command screen type the code below and hit | System should show each line typed, and move down to the empty | | |
| | | | RETURN after each line: 10 DEF FN A(X) = X+7 | line beneath. | | l |
| | | | 20 PRINT FN A(9) | | | l |
| | | | 30 PRINT FN A(20) | | | |
| | LS2 + MX | | From the USB BASIC command screen type RUN and hit RETURN | System should print 16 on one line, 27 beneath it, with Ok beneath the 27. | | |
| E-1.2.14.5 AL | L S2 + MX | | From the USB BASIC command screen type the code below and hit | System should print 14, with Ok beneath. | | |
| | | | RETURN: PRINT FN A(7) | | | l |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|------------|-------------|------------------|---|---|-----------------------------------|-----------|----------|-----------|
| E-1.2.15.1 | AL S2 + MX | Test & Operator | From the Aqualite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-1.2.15.2 | AL S2 + MX | | From the USB BASIC command screen type the code below and hit RETURN after each line: 10 AS="ABCDEFG" 20 COPY DEEK (6AS+2),\$3291,PEEK (6AS) 30 PRINT "A\$ length =" + STR\$(PEEK (6A\$)) | System should show each line typed, and move down to the empty line beneath. | | | | |
| E-1.2.15.3 | AL S2 + MX | | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-1.2.15.4 | AL S2 + MX | | From the USB BASIC command screen type RUN and hit RETURN | System should print A\$ length = 7 with Ok beneath, and should print ABCDEFG near the middle bottom of the screen. | | | | |
| E-1.2.16 | AL S2 + MX | TESTING COMPLETE | From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| | | | | TESTING IS COMPLETE | | | | |



Alpha Test Plan
USB BASIC v1.3

| Tester Name: | |
|------------------|--|
| Date Completed: | |
| nment(s) Tested: | AquaLite Aquarius II + Micro Expander Option |

E2

Setup

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|---------|-------------|----------------------|---|---|-----------------------------------|-----------|----------|-----------|
| E-2.0.0 | AL A2 + MX | Setup AquaLite v1.36 | | | | | | |
| E-2.0.1 | AL A2 + MX | | Download & install AquaLite v1.36 from https://aquarius.je/aqualite (unzip files) | AquaLite v1.36 is downloaded and installed on your system. | | | | |
| E-2.0.2 | AL A2 + MX | | | System should boot into "BASIC Press RETURN key to start" flashing screen. Menubar should say AquaLite v1.36 . | | | 1 | |
| E-2.0.3 | AL A2 + MX | | Within AquaLite v1.36, go to menu option Tool > Options, select the Hardware tab, and make sure Aquarius II is selected in the Model section. Click Ok. | System should beep and reboot. | | | | |
| E-2.0.4 | AL A2 + MX | | Within AquaLite v1.36, go to menu option Tool > Options, select the Peripherals tab, and make sure Micro Expander is checked. Click Ok. | System should beep and reboot. | | | | |
| E-2.0.5 | AL A2 + MX | | | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-2.0.6 | AL A2 + MX | | | The "About USB BASIC" screen should be displayed. Release Date should show "Alpha 2023-05-07". | | | | |
| E-2.0.7 | AL A2 + MX | | Press any key to exit the About screen. | The "Aquarius MX USB BASIC v1.3" screen should be displayed. | | | | |
| E-2.0.8 | AL A2 + MX | | 31 7 | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Tim |
|-----------|-------------|----------------------|---|--|-----------------------------------|-----------|----------|----------|
| E-2.1.0 | AL A2 + MX | Test legacy commands | | | | | | |
| E-2.1.1.1 | AL A2 + MX | Test CALL xx | From the USB BASIC command screen type CALL \$8000 and hit RETURN | The cursor should move down one row, and the system should freeze. | | | | |
| E-2.1.1.2 | AL A2 + MX | | From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-2.1.1.3 | AL A2 + MX | | From the USB BASIC command screen type CALL -32768 and hit RETURN | The cursor should move down one row, and the system should freeze. | | | | |
| E-2.1.1.4 | AL A2 + MX | | From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-2.1.1.5 | AL A2 + MX |] | From the USB BASIC command screen type CALL 32768 (NO minus sign!) and hit RETURN | The cursor should move down one row, and the system should freeze. | | | | |
| E-2.1.1.6 | AL A2 + MX | | From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-2.1.2 | AL A2 + MX | Test CAT | From the USB BASIC command screen type CAT and hit RETURN | System should display a brief listing of the contents of the USB folder within the AquaLite program folder, followed by Ok beneath. Note that the contents can vary from system to system. | | | | |
| E-2.1.3.1 | AL A2 + MX | Test CD | From the USB BASIC command screen type CD and hit RETURN | The cursor should move down one row, and a / character should be displayed, followed by Ok beneath. | | | | |
| E-2.1.3.2 | AL A2 + MX | | From the USB BASIC command screen type CD"ROMS" and hit RETURN | The cursor should move down one row and display Ok beneath. | | | | |
| E-2.1.4 | AL A2 + MX | Test DIR | From the USB BASIC command screen type DIR and hit RETURN | System should display a detailed listing of the contents of the USB > ROMS folder within the Aqualite program folder, followed by Ok beneath. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents. | | | | |

| Test No | | | | Expected Results | | | | Date/Time |
|------------|------------|-------------------------|--|--|-----------------------------------|-----------|----------|-----------|
| E-2.1.5.1 | AL A2 + MX | Description Test CLS | Process From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok in black letters on a cyan | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
| | | | 7,60 | background. | | | | <u> </u> |
| E-2.1.5.2 | AL A2 + MX | | From the USB BASIC command screen type CLS 8 and hit RETURN | System should clear the screen and show Ok in black letters on a grey background. | | | | 1 |
| E-2.1.5.3 | AL A2 + MX | | From the USB BASIC command screen type CLS \$7D and hit RETURN | System should clear the screen and show Ok in white letters on a dark green background. | | | | |
| E-2.1.5.4 | AL A2 + MX | | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok in black letters on a cyan background. | | | | 1 |
| E-2.1.6.1 | AL A2 + MX | Test SAVE a BASIC file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| E-2.1.6.2 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit RETURN after each line: 10 REM Testing SAVE 20 CLS 30 PRINT "Hello" | System should show each line typed, and move down to the empty line beneath. | | | | |
| E-2.1.6.3 | AL A2 + MX | | From the USB BASIC command screen type LIST and hit RETURN | System should show all three lines in the program and display Ok beneath. | | | | |
| E-2.1.6.4 | AL A2 + MX | | From the USB BASIC command screen type SAVE "TEST01.BAS" and hit RETURN | The cursor should move down one row and display Ok beneath. In the USB > ROMS folder within the AquaLite program folder, there should be a new file named TESTO1.BAS. | | | | |
| E-2.1.6.5 | AL A2 + MX | | From the USB BASIC command screen type CAT and hit RETURN | System should display a brief listing of the contents of the folder, and the "TEST01.BAS" file should be lised among those files. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents. | | | | |
| E-2.1.7.1 | AL A2 + MX | Test LOAD a BASIC file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| E-2.1.7.2 | AL A2 + MX | | From the USB BASIC command screen type LIST and hit RETURN | System should display NO PROGRAM LINES with Ok beneath. | | | | |
| E-2.1.7.3 | AL A2 + MX | | From the USB BASIC command screen type LOAD "TEST01.BAS" and hit RETURN | System should display Ok beneath. | | | | |
| E-2.1.7.4 | AL A2 + MX | | From the USB BASIC command screen type LIST and hit RETURN | System should show all three lines in the program listed in test E- 2.1.6.2 and display Ok beneath. | | | | |
| E-2.1.8.1 | AL A2 + MX | Test RUN a BASIC file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| E-2.1.8.2 | AL A2 + MX | | From the USB BASIC command screen type RUN "TEST01.BAS" and hit RETURN | System should clear the screen, print Hello at the top, and display Ok beneath. | | | | |
| E-2.1.9.1 | AL A2 + MX | Test DEL | From the USB BASIC command screen type DEL " TEST01.BAS " and hit RETURN | System should display Ok beneath. | | | | |
| E-2.1.9.2 | AL A2 + MX | | From the USB BASIC command screen type CAT and hit RETURN | System should display a brief listing of the contents of the folder, and the "TESTO1.BAS" file SHOULD NOT be lised among those files. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents. | | | | |
| E-2.1.10.1 | AL A2 + MX | Test SAVE a BIN file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| E-2.1.10.2 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit RETURN after each line: 10 REM Testing SAVE BIN 20 PORE \$8000, 97, 98, 99,100 30 PRINT "Done" | System should show each line typed, and move down to the empty line beneath. | | | | |
| E-2.1.10.3 | AL A2 + MX | | From the USB BASIC command screen type LIST and hit RETURN | System should show all three lines in the program and display Ok beneath. | | | | |
| E-2.1.10.4 | AL A2 + MX | | From the USB BASIC command screen type RUN and hit RETURN | System should print Done and display Ok beneath the program listing. | | | | |
| E-2.1.10.5 | AL A2 + MX | | From the USB BASIC command screen type CD "/" and hit RETURN | System should display Ok beneath. | | | | |
| E-2.1.10.6 | AL A2 + MX | - | From the USB BASIC command screen type the code below and hit RETURN: SAVE "POKE.BIN", \$8000, 4 | System should display Ok beneath. | | | | |
| E-2.1.10.7 | AL A2 + MX | | From the USB BASIC command screen type DIR and hit RETURN | System should display a detailed listing of the contents of the USB folder within the AquaLite program folder, and the file named "POKE.BIN" should be listed in the contents. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll past the full list of contents. | | | | |
| E-2.1.11.1 | | Test LOAD a BIN file | From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-2.1.11.2 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: LOAD "POKE.BIN", \$3242 | System should display abcd in the middle of the screen, with Ok beneath the text you just typed. | | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|------------|-------------|---------------------|--|--|-----------------------------------|-----------|----------|-----------|
| E-2.1.12.1 | AL A2 + MX | Test RUN a ROM file | From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-2.1.12.2 | AL A2 + MX | | From the USB BASIC command screen type CD"ROMS" and hit RETURN | The cursor should move down one row and display Ok beneath. | | | | |
| E-2.1.12.3 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: RUN "SNAFU.ROM" | System should load the SNAFU game ROM and display the SNAFU title screen. | | | | |
| E-2.1.12.4 | AL A2 + MX | | From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-2.1.13.1 | AL A2 + MX | Test DEBUG | From the USB BASIC command screen type DEBUG and hit RETURN | The AQUBUG screen should pop up with white text on a blue background. | | | | |
| E-2.1.13.2 | AL A2 + MX | | On the AQUBUG screen type the letter Q | System should return to the USB BASIC command screen, showing the DEBUG command with Ok beneath. | | | | |
| E-2.1.14.1 | AL A2 + MX | Test HEX\$ | From the USB BASIC command screen type the code below and hit RETURN: PRINT HEX\$ (12288) | System should display 3000 on the next line with Ok beneath. | | | | |
| E-2.1.14.2 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: PRINT HEX\$ (-123) | System should display FF85 on the next line with Ok beneath. | | | | |
| E-2.1.14.3 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: PRINT HEX\$ (65535) | System should display FFFF on the next line with Ok beneath. | | | | |
| E-2.1.15 | AL A2 + MX | Test JOY | From the USB BASIC command screen type the code below and try to type RETURN and the 1 key at about the same time (maybe a slight delay before the 1 key): PRINT JOY (0) | System should display 64 on the next line with Ok beneath. If you weren't able to get it to work exactly right, a 0 might be displayed instead of the 64. Try a couple of times to get it to work, if you can. | | | | |
| E-2.1.16 | AL A2 + MX | Test IN | From the USB BASIC command screen type the code below and hit RETURN: PRINT IN (\$FF) | System should display 247 on the next line with Ok beneath. | | | | |
| E-2.1.17.1 | AL A2 + MX | Test PSG | From the USB BASIC command screen type the code below and hit RETURN: PSG 8,15,0,148,1,1,7,56 | System should play a Db4 tone continuously. | | | | |
| E-2.1.17.2 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: PSG 8,0,7,0 | System should stop playing the tone. | | | | |
| E-2.1.18.1 | AL A2 + MX | Test OUT | From the USB BASIC command screen type the code below and hit RETURN: PSG 8,15,0,148,1,1,7,56 | System should play a Db4 tone continuously and print Ok beneath. | | | | |
| E-2.1.18.2 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit RETURN after each line: OUT 247,8 OUT \$F6,0 | System should print Ok after each RETURN, and then should stop playing the tone after the second. | | | | |
| E-2.1.19.1 | AL A2 + MX | Test EDIT | From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-2.1.19.2 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: 10 REM Testing EDIT | System should show each line typed, and move down to the empty line beneath. | | | | |
| E-2.1.19.3 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: EDIT 10 | System should list the previously entered line 10 with a blue cursor and white text positioned over the R in the REM command. | | | | |
| E-2.1.19.4 | AL A2 + MX | | Within the line 10 edit with the cursor on the R of REM, press the SPACE bar to insert a space between the line number 10 and the REM statement. | System should display line 10 with a SPACE between the 10 and the REM command. | | | | |
| E-2.1.19.5 | AL A2 + MX | | Within the line 10 edit with the cursor on the R of REM, CTRL + / eleven times so the cursor is on top of the SPACE after the word Testing. | System should list the previously entered line 10 with a blue cursor and white text positioned over the SPACE after the word Testing. | | | | |
| E-2.1.19.6 | AL A2 + MX | | Within the line 10 edit with the cursor on the SPACE between the word Testing and EDIT, press the DELETE/BACKSPACE key three times to delete the letters "ing" at the end of the word Testing. | System should list the previously entered line 10 with a blue cursor and white text positioned over the SPACE before the word EDIT. | | | | |
| E-2.1.19.7 | AL A2 + MX | | Within the line 10 edit with the cursor on the SPACE between the word Test and EDIT, press CTRL + P eight times so the cursor is over the letter R in REM, and then hit RETURN/ENTER. | The cursor should go to the line beneath line 10, and should NOT display Ok beneath. | | | | |
| E-2.1.19.8 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: LIST 10 | System should display a blank line, then list line 10 again, with Ok beneath. | | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|------------|-------------|---------------|--|---|-----------------------------------|-----------|----------|-----------|
| E-2.1.20.1 | AL A2 + MX | Test LOCATE | From the USB BASIC command screen type the code below and hit RETURN after each line: 10 CLS 20 LOCATE 20,12 30 PRINT CHR\$ (KEY(0)) | System should show each line typed, and move down to the empty line beneath. | | | | |
| E-2.1.20.2 | AL A2 + MX | | From the USB BASIC command screen type RUN and hit RETURN | System should move the cursor to the middle of the screen. | | | | |
| E-2.1.20.3 | AL A2 + MX | 1 | With the cursor in the middle of the screen, press the G key. | System should display a "g" in the middle of the screen, then go to the next line and print Ok beneath. | | | | |
| E-2.1.20.4 | AL A2 + MX | | From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-2.1.21.1 | AL A2 + MX | Test CTRL + C | From the AquaLite menu, select File > Hard Reset. Do NOT hit RETURN. Stay on the AquaLite menu. | The "Aquarius MX USB BASIC v1.3" screen should be displayed. There should NOT be an option near the bottom that says " <ctrl+c> Warm Start"</ctrl+c> | | | | |
| E-2.1.21.2 | AL A2 + MX | | Hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-2.1.21.3 | AL A2 + MX | | | The "Aquarius MX USB BASIC v1.3" screen should be displayed. There SHOULD be an option near the bottom that says " <ctrl+c> Warm Start"</ctrl+c> | | | | |
| E-2.1.21.4 | AL A2 + MX | | Press CTRL + C. | A blank screen with "Break", followed by "Ok" on the next line with a cursor below. | | | | |
| | | | PLEASE CONTINUE | EVEN IF ALL TESTS IN THIS SECTION DID NOT PAS | S. | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|-----------|-------------|--------------------------|--|--|-----------------------------------|-----------|----------|-----------|
| E-2.2.0 | AL A2 + MX | Test NEW commands | | | | | | |
| E-2.2.1.1 | AL A2 + MX | Test POKE auto-increment | From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-2.2.1.2 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: POKE 12945, 97, 98, 99, 100 | The screen should print abcd in a row towards the middle bottom of the screen. | | | | |
| E-2.2.2.1 | AL A2 + MX | Test POKE range | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok. | | | | |
| E-2.2.2.2 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291 TO \$3299,97 | The screen should print aaaaaaaaa (nine letter a's) in a row towards the middle bottom of the screen. | | | | |
| E-2.2.3.1 | AL A2 + MX | Test POKE step | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok. | | | | |
| E-2.2.3.2 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291,97,STEP 40,97,STEP 40,97 | The screen should print aaa (three letter a's) in a downward line at the middle bottom of the screen. | | | | |
| E-2.2.4.1 | AL A2 + MX | Test POKE strings | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok. | | | | |
| E-2.2.4.2 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291, "Hubba", STEP 40, "Bubba" | The screen should print the words Hubba Bubba stacked on top of each other at the middle bottom of the screen. | | | | |
| E-2.2.5.1 | AL A2 + MX | Test COPY | From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-2.2.5.2 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: COPY \$3000,\$3000+440,120 | The text at the top of the screen ("Copyright © 1982 by Microsoft, Inc 52" & "USB BASIC v1.3" should be duplicated in the middle of the screen, with the Ok beneath the COPY command near the top. | | | | |
| E-2.2.6.1 | AL A2 + MX | Test ATN | From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-2.2.6.2 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: PRINT ATN (1) | System should display .785398 on the next line with Ok beneath. | | | | |
| E-2.2.7.1 | AL A2 + MX | Test DEC | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-2.2.7.2 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: PRINT DEC ("55FF") | System should display 22015 on the next line with Ok beneath. | | | | |
| E-2.2.8.1 | AL A2 + MX | Test DEEK | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-2.2.8.2 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: PRINT HEX\$ (DEEK (12288+41)) | System should display 684F on the next line with Ok beneath. (\$4F is the "O" character and \$6B is the "k" character from the top left of the screen.) | | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|-------------|----------------|------------------|--|---|-----------------------------------|--|----------|----------------|
| E-2.2.9.1 | AL A2 + MX | Test DOKE | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| | | | | | | | | |
| E-2.2.9.2 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit | System should display Hi at the top left of the screen and show Ok | | | | ı l |
| | | | RETURN: | beneath the DOKE command line. (\$48 is the "H" character and \$69 is | | | | ı l |
| E-2.2.10.1 | AL A2 + MX | Test KEY | DOKE 12288+41,\$6948 From the USB BASIC command screen type CLS and hit RETURN | the "i" character.) System should clear the screen and show Ok . | | | | |
| E-2.2.10.1 | AL AZ + MX | TEST KEY | From the USB BASIC command screen type CLS and nit RETURN | System should clear the screen and show Ok . | | | | ı l |
| E-2.2.10.2 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit | System should show each line typed, and move down to the empty | | | | $\overline{}$ |
| | | | RETURN after each line: | line beneath. | | | | ı |
| | | | 10 CLS 42 | | | | | ı l |
| | | | 20 LOCATE 20,12 | | | | | ı I |
| | | | 30 PRINT CHR\$(KEY(0)) | | | | | |
| E-2.2.10.3 | AL A2 + MX | | From the USB BASIC command screen type RUN and hit RETURN | System should clear the screen to GREEN letters on a PURPLE | | | | ı l |
| | | | | background and move the GREEN cursor to the middle of the screen, | | | | 1 |
| 500404 | | | 1001.01 | waiting for input. | | | | |
| E-2.2.10.4 | AL A2 + MX | | With the cursor in the middle of the screen, press the M key (without the SHIFT key pressed). | System should display a "m" in the middle of the screen, then go to the next line and print Ok beneath. | | | | ı l |
| E-2.2.11.1 | AL A2 + MX | Test SDTM | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | 1 | | |
| L 2.2.11.1 | ALAZ I WA | TCSC SDTWI | From the 636 basic command screen type 626 and the Reform | System should clear the screen and show ox . | | | | ı l |
| E-2.2.11.2 | AL A2 + MX | 1 | From the USB BASIC command screen type the code below and hit | System should display Ok beneath. (Note: On AquaLite, there is no | | | | |
| | | | RETURN: | way to actually SET the DateTime, so it will stay set to the hosting | | | | _i [|
| | | | SDTM "230517010101" | computer's system clock.) | | | | , I |
| E-2.2.11.3 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit | System should display SN Error beneath. | | | | |
| | | | RETURN: | | | | | ı l |
| | | | SDTM "kkk" | | | | | |
| E-2.2.12.1 | AL A2 + MX | Test DTM\$ | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | ı l |
| | | 4 | | | | | | |
| E-2.2.12.2 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: | System should display a string with the current date and time, formatted YYMMDDHHMMSSCC, with Ok beneath. | | | | ı l |
| | | | PRINT DTM\$(0) | formatted YYMINDDHHIMINISSCC, With Ok beneath. | | | | ı l |
| E-2.2.12.3 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit | System should display a string with the current date and time, | | | | |
| L LILILLIS | 712712 - 14171 | | RETURN: | formatted YYYY-MM-DD HH:MM:SS, with Ok beneath. Note that the | | | | ı l |
| | | | PRINT DTM\$(1) | Century is assumed to be 20, and the hours are in 24 hour format. | | | | ı l |
| | | | | | | | | 1 |
| E-2.2.12.4 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit | System should display a string with the current date, formatted YYYY- | | | | 1 |
| | | | RETURN: | MM-DD, with Ok beneath. Note that the Century is assumed to be 20. | | | | ı l |
| 500405 | | | PRINT LEFT\$(DTM\$(1),10) | | | | | |
| E-2.2.12.5 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit RETURN: | System should display a string with the current time, formatted | | | | ı l |
| | | | PRINT RIGHT (DTM\$ (1), 8)) | HH:MM:SS, with Ok beneath. Note that the hours are in 24 hour format. | | | | ı l |
| E-2.2.13.1 | AL A2 + MX | Test VER | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| L 2.12.13.1 | 712712 - 1417 | TOSC VEN | rom the oss share command street type ozs and me herom | System should dear the screen and show ox . | | | | ı l |
| E-2.2.13.2 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit | System should display 0103, with Ok beneath. | | | | |
| | | | RETURN: | | | | | ı l |
| | | | PRINT HEX\$ (VER(0)) | | | | | 1 |
| E-2.2.13.3 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit | System should display 1, with Ok beneath. | | | | , 7 |
| | | | RETURN: PRINT VAL(LEFT\$(HEX\$(VER(0)),2)) | | | | | _i [|
| E-2.2.13.4 | AL A2 + MX | 1 | | System should display 2 with Ok hannath | | | | |
| t-2.2.13.4 | AL AZ + IVIX | | From the USB BASIC command screen type the code below and hit RETURN: | System should display 3, with Ok beneath. | | | | , I |
| | | | PRINT VAL(RIGHT\$(HEX\$(VER(0)),2)) | | | | | i I |
| E-2.2.14.1 | AL A2 + MX | Test DEF FN / FN | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | 1 | | |
| | | | 7,5 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | i I |
| E-2.2.14.2 | AL A2 + MX | 1 | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | $\overline{}$ |
| | |] | | | | <u> </u> | | I |
| E-2.2.14.3 | AL A2 + MX | | From the USB BASIC command screen type the code below and hit | System should show each line typed, and move down to the empty | | | | |
| | | | RETURN after each line: | line beneath. | | | | _i [|
| | | | 10 DEF FN A(X) = X+7 20 PRINT FN A(9) | | | | | ı I |
| | | | 20 PRINT FN A(9) 30 PRINT FN A(20) | | | | | , I |
| E-2.2.14.4 | AL A2 + MX | 1 | | Custom should print 16 on one line 27 honouth it with Other and the | | | | |
| t-2.2.14.4 | AL AZ + IVIX | | From the USB BASIC command screen type RUN and hit RETURN | System should print 16 on one line, 27 beneath it, with Ok beneath the | | | | _i [|
| E-2.2.14.5 | AL A2 + MX | 1 | From the USB BASIC command screen type the code below and hit | System should print 14, with Ok beneath. | | | | $\overline{}$ |
| L 2.2.17.J | ALAZ I WIA | | RETURN: | System should print 14, with ox benedul. | | | | ı I |
| | | | PRINT FN A(7) | | | | | ı I |
| | | 1 | PRINT FN A(7) | | | | | ш |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|------------|-------------|------------------|--|---|-----------------------------------|-----------|----------|-----------|
| E-2.2.15.1 | AL S2 + MX | Test & Operator | From the Aqualite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-2.2.15.2 | AL S2 + MX | | From the USB BASIC command screen type the code below and hit RETURN after each line: 10 A\$="ABCDEFG" 20 COPY DEEK (&A\$+2),\$3291,PEEK (&A\$) 30 PRINT "A\$ length =" + STR\$ (PEEK (&A\$)) | System should show each line typed, and move down to the empty line beneath. | | | | |
| E-2.2.15.3 | AL S2 + MX | | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-2.2.15.4 | AL S2 + MX |] | From the USB BASIC command screen type RUN and hit RETURN | System should print A\$ length = 7 with Ok beneath, and should print ABCDEFG near the middle bottom of the screen. | | | | |
| E-2.2.16 | AL A2 + MX | TESTING COMPLETE | From the Aqualite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| | | | | TESTING IS COMPLETE | | | | |



Alpha Test Plan
USB BASIC v1.3

| Tester Name: | |
|------------------------|-------------------------------------|
| Date Completed: | |
| Environment(s) Tested: | AquaLite S1 + Micro Expander Option |

Setup

E3

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|---------|-------------|----------------------|--|---|-------------------------------------|-----------|----------|-----------|
| E-3.0.0 | AL S1 + MX | Setup AquaLite v1.36 | | | | | | |
| E-3.0.1 | AL S1 + MX | | Download & install AquaLite v1.36 from https://aquarius.je/aqualite | AquaLite v1.36 is downloaded and installed on your system. | | | | |
| | | | (unzip files) | | | | | |
| E-3.0.2 | AL S1 + MX | | Launch AquaLite v1.36. (aqualite.exe) | System should boot into "BASIC Press RETURN key to start" flashing | | | | |
| | | | | screen. Menubar should say AquaLite v1.36. | | | | |
| E-3.0.3 | ALS1 + MX | | Within AquaLite v1.36, go to menu option Tool > Options, select the | System should beep and reboot. | | | | |
| | | | Hardware tab, and make sure Aquarius I is selected in the Model | | | | | |
| | | | section, and select Aquarius S1 ROM in the ROM section. Click Ok. | | | | | |
| E-3.0.4 | ALS1 + MX | | Within AquaLite v1.36, go to menu option Tool > Options, select the | System should beep and reboot. | | | | |
| | | | Peripherals tab, and make sure Micro Expander is checked. Click Ok. | | | | | |
| E-3.0.5 | AL S1 + MX | 1 | From the AquaLite menu, select File > Hard Reset, and then hit the | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | line with a cursor below. | | | | |
| E-3.0.6 | ALS1 + MX | 1 | Press the A key within the emulator. | The "About USB BASIC" screen should be displayed. Release Date | | | | |
| | | | | should show "Alpha 2023-05-07". | | | | |
| E-3.0.7 | ALS1 + MX | 1 | Press any key to exit the About screen. | The "Aquarius MX USB BASIC v1.3" screen should be displayed. | | | | |
| E-3.0.8 | ALS1 + MX | 1 | Press RETURN/ENTER key to go to the USB BASIC command screen. | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next | | | | |
| | | | Note: This screen is the starting point for most tests in this plan. | line with a cursor below. | | | | |
| | | | | | | | | <u> </u> |
| | | DO N | OT CONTINUE IF ANY TESTS IN THIS SECTION DID I | NOT PASS! CONTACT THE TESTING COORDINATO | OR, Sean Harrington sph@1stage.com. | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|-----------|-------------|----------------------|--|--|-----------------------------------|-----------|----------|-----------|
| E-3.1.0 | ALS1 + MX | Test legacy commands | | | | | | |
| E-3.1.1.1 | AL S1 + MX | Test CALL xx | From the USB BASIC command screen type CALL \$8000 and hit RETURN | The cursor should move down one row, and the system should freeze. | | | | |
| E-3.1.1.2 | AL S1 + MX | | From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-3.1.1.3 | AL S1 + MX | | From the USB BASIC command screen type CALL -32768 and hit RETURN | The cursor should move down one row, and the system should freeze. | | | | |
| E-3.1.1.4 | AL S1 + MX | | From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-3.1.1.5 | AL S1 + MX | | From the USB BASIC command screen type CALL 32768 (NO minus sign!) and hit RETURN | The cursor should move down one row, and the system should freeze. | | | | |
| E-3.1.1.6 | AL S1 + MX | | From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-3.1.2 | AL S1 + MX | Test CAT | | System should display a brief listing of the contents of the USB folder within the AquaLite program folder, followed by Ok beneath. Note that the contents can vary from system to system. | | | | |
| E-3.1.3.1 | AL S1 + MX | Test CD | | The cursor should move down one row, and a / character should be displayed, followed by Ok beneath. | | | | |
| E-3.1.3.2 | AL S1 + MX | | From the USB BASIC command screen type CD"ROMS" and hit RETURN | The cursor should move down one row and display Ok beneath. | | | | |
| E-3.1.4 | AL S1 + MX | Test DIR | | System should display a detailed listing of the contents of the USB > ROMS folder within the Aqualite program folder, followed by Ok beneath. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents. | | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|------------|-------------|------------------------|--|---|-----------------------------------|-----------|----------|-----------|
| E-3.1.5.1 | AL S1 + MX | Test CLS | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok in black letters on a cyan background. | | | | |
| E-3.1.5.2 | AL S1 + MX | • | From the USB BASIC command screen type CLS 8 and hit RETURN | System should clear the screen and show Ok in black letters on a grey background. | | | | |
| E-3.1.5.3 | AL S1 + MX | | From the USB BASIC command screen type CLS \$7D and hit RETURN | System should clear the screen and show Ok in white letters on a dark green background. | | | | |
| E-3.1.5.4 | AL S1 + MX | | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok in black letters on a cyan background. | | | | |
| E-3.1.6.1 | AL S1 + MX | Test SAVE a BASIC file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| E-3.1.6.2 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit RETURN after each line: 10 REM Testing SAVE 20 CLS 30 PRINT "Hello" | System should show each line typed, and move down to the empty line beneath. | | | | |
| E-3.1.6.3 | AL S1 + MX | • | From the USB BASIC command screen type LIST and hit RETURN | System should show all three lines in the program and display Ok heneath. | | | | |
| E-3.1.6.4 | AL S1 + MX | | From the USB BASIC command screen type SAVE "TEST01.BAS" and hit RETURN | The cursor should move down one row and display Ok beneath. In the USB > ROMS folder within the AquaLite program folder, there should be a new file named TESTO1.BAS. | | | | |
| E-3.1.6.5 | AL S1 + MX | | From the USB BASIC command screen type CAT and hit RETURN | System should display a brief listing of the contents of the folder, and the "TESTO1.BAS" file should be lised among those files. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents. | | | | |
| E-3.1.7.1 | AL S1 + MX | Test LOAD a BASIC file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| E-3.1.7.2 | AL S1 + MX | | From the USB BASIC command screen type LIST and hit RETURN | System should display NO PROGRAM LINES with Ok beneath. | | | | |
| E-3.1.7.3 | AL S1 + MX | | From the USB BASIC command screen type LOAD "TEST01.BAS" and hit RETURN | System should display Ok beneath. | | | | |
| E-3.1.7.4 | AL S1 + MX | | From the USB BASIC command screen type LIST and hit RETURN | System should show all three lines in the program listed in test E- 3.1.6.2 and display Ok beneath. | | | | |
| E-3.1.8.1 | AL S1 + MX | Test RUN a BASIC file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| E-3.1.8.2 | AL S1 + MX | | From the USB BASIC command screen type RUN "TEST01.BAS" and hit RETURN | System should clear the screen, print Hello at the top, and display Ok beneath. | | | | |
| E-3.1.9.1 | AL S1 + MX | Test DEL | From the USB BASIC command screen type DEL "TESTO1.BAS" and hit RETURN | System should display Ok beneath. | | | | |
| E-3.1.9.2 | AL S1 + MX | | From the USB BASIC command screen type CAT and hit RETURN | System should display a brief listing of the contents of the folder, and the "TESTO1.BAS" file SHOULD NOT be lised among those files. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents. | | | | |
| E-3.1.10.1 | ALS1 + MX | Test SAVE a BIN file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| E-3.1.10.2 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit RETURN after each line: 10 REM Testing SAVE BIN 20 POKE \$8000, 97,98,99,100 30 PRINT "Done" | System should show each line typed, and move down to the empty line beneath. | | | | |
| E-3.1.10.3 | ALS1 + MX | | From the USB BASIC command screen type LIST and hit RETURN | System should show all three lines in the program and display Ok beneath. | | | | |
| E-3.1.10.4 | ALS1 + MX | | From the USB BASIC command screen type RUN and hit RETURN | System should print Done and display Ok beneath the program listing. | | | | |
| E-3.1.10.5 | ALS1 + MX | | From the USB BASIC command screen type CD "/" and hit RETURN | System should display Ok beneath. | | | | |
| E-3.1.10.6 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit RETURN: SAVE "POKE.BIN", \$8000, 4 | System should display Ok beneath. | | | | |
| E-3.1.10.7 | ALS1 + MX | | From the USB BASIC command screen type DIR and hit RETURN | System should display a detailed listing of the contents of the USB folder within the AquaLite program folder, and the file named "POKE.BIN" should be listed in the contents. Note that the RETURN/PENTER key may have to be pressed one or more times to scroll past the full list of contents. | | | | |
| E-3.1.11.1 | | Test LOAD a BIN file | From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-3.1.11.2 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit RETURN: LOAD "POKE.BIN", \$3242 | System should display abcd in the middle of the screen, with Ok beneath the text you just typed. | | | | |
| | | 1 | DOND FUNDIN, 93242 | L | l . | 1 | | |

| Test No | Environment | Description | Process | Expected Results Actu | ual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|------------|-------------|---------------------|--|--|--------------------------------|-----------|----------|-----------|
| E-3.1.12.1 | AL S1 + MX | Test RUN a ROM file | From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-3.1.12.2 | ALS1 + MX | | From the USB BASIC command screen type CD"ROMS" and hit RETURN | The cursor should move down one row and display Ok beneath. | | | | |
| E-3.1.12.3 | AL S1 + MX | | REFORM From the USB BASIC command screen type the code below and hit RETURN: RUN "SNAFU.ROM" | System should load the SNAFU game ROM and display the SNAFU title screen. | | | | |
| E-3.1.12.4 | AL S1 + MX | • | From the Aqualite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-3.1.13.1 | ALS1 + MX | Test DEBUG | From the USB BASIC command screen type DEBUG and hit RETURN | The AQUBUG screen should pop up with white text on a blue background. | | | | |
| E-3.1.13.2 | AL S1 + MX | | On the AQUBUG screen type the letter Q | System should return to the USB BASIC command screen, showing the DEBUG command with Ok beneath. | | | | |
| E-3.1.14.1 | AL S1 + MX | Test HEX\$ | From the USB BASIC command screen type the code below and hit RETURN: PRINT HEX\$ (12288) | System should display 3000 on the next line with Ok beneath. | | | | |
| E-3.1.14.2 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit RETURN: PRINT HEXS (-123) | System should display FF85 on the next line with Ok beneath. | | | | |
| E-3.1.14.3 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit RETURN: PRINT HEXS (65535) | System should display FFFF on the next line with Ok beneath. | | | | |
| E-3.1.15 | ALS1+MX | Test JOY | From the USB BASIC command screen type the code below and try to type RETURN and the 1 key at about the same time (maybe a slight delay before the 1 key): PRINT JOY (0) | System should display 64 on the next line with Ok beneath. If you weren't able to get it to work exactly right, a 0 might be displayed instead of the 64. Try a couple of times to get it to work, if you can. | | | | |
| E-3.1.16 | ALS1 + MX | Test IN | From the USB BASIC command screen type the code below and hit RETURN: PRINT IN (SFF) | System should display 247 on the next line with Ok beneath. | | | | |
| E-3.1.17.1 | AL S1 + MX | Test PSG | From the USB BASIC command screen type the code below and hit RETURN: PSG 8,15,0,148,1,1,7,56 | System should play a Db4 tone continuously. | | | | |
| E-3.1.17.2 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit RETURN: PSG 8,0,7,0 | System should stop playing the tone. | | | | |
| E-3.1.18.1 | AL S1 + MX | Test OUT | From the USB BASIC command screen type the code below and hit RETURN: PSG 8,15,0,148,1,1,7,56 | System should play a Db4 tone continuously and print Ok beneath. | | | | |
| E-3.1.18.2 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit RETURN after each line: OUT 247,8 OUT \$F6,0 | System should print Ok after each RETURN, and then should stop playing the tone after the second. | | | | |
| E-3.1.19.1 | AL S1 + MX | Test EDIT | From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-3.1.19.2 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit RETURN: 10 REM Testing EDIT | System should show each line typed, and move down to the empty line beneath. | | | | |
| E-3.1.19.3 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit RETURN: EDIT 10 | System should list the previously entered line 10 with a blue cursor and white text positioned over the R in the REM command. | | | | |
| E-3.1.19.4 | ALS1 + MX | | Within the line 10 edit with the cursor on the R of REM, press the SPACE bar to insert a space between the line number 10 and the REM statement. | System should display line 10 with a SPACE between the 10 and the REM command. | | | | |
| E-3.1.19.5 | ALS1 + MX | | Within the line 10 edit with the cursor on the R of REM, CTRL + / eleven times so the cursor is on top of the SPACE after the word Testing. | System should list the previously entered line 10 with a blue cursor and white text positioned over the SPACE after the word Testing. | | | | |
| E-3.1.19.6 | ALS1 + MX | | Within the line 10 edit with the cursor on the SPACE between the word Testing and EDIT, press the DELETE/BACKSPACE key three times to delete the letters "ing" at the end of the word Testing. | System should list the previously entered line 10 with a blue cursor and white text positioned over the SPACE before the word EDIT. | | | | |
| E-3.1.19.7 | AL S1 + MX | | Within the line 10 edit with the cursor on the SPACE between the word Test and EDIT, press CTRL + P eight times so the cursor is over the letter R in REM, and then hit RETURN/ENTER. | The cursor should go to the line beneath line 10, and should NOT display Ok beneath. | | | | |
| E-3.1.19.8 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit RETURN: LIST 10 | System should display a blank line, then list line 10 again, with Ok beneath. | | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|------------|-------------|---------------|--|---|-----------------------------------|-----------|----------|-----------|
| E-3.1.20.1 | AL S1 + MX | Test LOCATE | From the USB BASIC command screen type the code below and hit RETURN after each line: 10 CLS 20 LOCATE 20,12 30 PRINT CHR\$ (KEY(0)) | System should show each line typed, and move down to the empty line beneath. | | | | |
| E-3.1.20.2 | AL S1 + MX | | From the USB BASIC command screen type RUN and hit RETURN | System should move the cursor to the middle of the screen. | | | | |
| E-3.1.20.3 | ALS1 + MX | | | System should display a "g" in the middle of the screen, then go to the next line and print Ok beneath. | | | | |
| E-3.1.20.4 | AL S1 + MX | | From the AquaLite menu, select File > Hard Reset, and then hit the RETURN/ENTER key to go to USB BASIC. | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-3.1.21.1 | ALS1 + MX | Test CTRL + C | RETURN. Stay on the AquaLite menu. | The "Aquarius MX USB BASIC v1.3" screen should be displayed. There should NOT be an option near the bottom that says " <ctrl+c> Warm Start"</ctrl+c> | | | | |
| E-3.1.21.2 | ALS1 + MX | | | The "USB BASIC v1.3" should be shown, followed by "Ok" on the next line with a cursor below. | | | | |
| E-3.1.21.3 | ALS1 + MX | | 1 ' | The "Aquarius MX USB BASIC v1.3" screen should be displayed. There SHOULD be an option near the bottom that says " <ctrl+c> Warm Start"</ctrl+c> | | | | |
| E-3.1.21.4 | ALS1 + MX | | | A blank screen with "Break", followed by "Ok" on the next line with a cursor below. | | | | |
| | | | PLEASE CONTINUE I | EVEN IF ALL TESTS IN THIS SECTION DID NOT PAS | S. | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|-----------|---------------|--------------------------|--|---|-----------------------------------|-----------|----------|---|
| E-3.2.0 | AL S1 + MX | Test NEW commands | | | | | | |
| E-3.2.1.1 | AL S1 + MX | Test POKE auto-increment | From the AquaLite menu, select File > Hard Reset, and then hit the | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next | | | | |
| 2 3.2.1.1 | 712.02 - 1117 | reser one date merement | RETURN/ENTER key to go to USB BASIC. | line with a cursor below. | | | | |
| E-3.2.1.2 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit | The screen should print abcd in a row towards the middle bottom of | | | | |
| 2 3.2.1.2 | 712.02 - 1117 | | RETURN: | the screen. | | | | |
| | | | POKE 12945,97,98,99,100 | the screen. | | | | |
| E-3.2.2.1 | AL S1 + MX | Test POKE range | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok. | | | | |
| | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | |
| E-3.2.2.2 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit | The screen should print aaaaaaaaa (nine letter a's) in a row towards | | | | |
| | | | RETURN: | the middle bottom of the screen. | | | | |
| | | | POKE \$3291 TO \$3299,97 | the middle bottom of the streeth | | | | |
| E-3.2.3.1 | AL S1 + MX | Test POKE step | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok. | | | | |
| 2 3.2.3.1 | 712.52 | reser one step | Trom the 655 brote command streem type 625 and menteronia | System should dear the street and show on | | | | 1 |
| E-3.2.3.2 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit | The screen should print aaa (three letter a's) in a downward line at the | | | | |
| | | | RETURN: | middle bottom of the screen. | | | | |
| | | | POKE \$3291,97,STEP 40,97,STEP 40,97 | initial contains of the sarcein | | | | 1 |
| E-3.2.4.1 | AL S1 + MX | Test POKE strings | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok. | | | | |
| | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | |
| E-3.2.4.2 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit | The screen should print the words Hubba Bubba stacked on top of | | | | |
| 2 3.2.4.2 | 712.02 - 1117 | | RETURN: | each other at the middle bottom of the screen. | | | | |
| | | | POKE \$3291, "Hubba", STEP 40, "Bubba" | eden other at the middle bottom of the screen. | | | | 1 |
| E-3.2.5.1 | AL S1 + MX | Test COPY | From the AquaLite menu, select File > Hard Reset, and then hit the | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | line with a cursor below. | | | | |
| E-3.2.5.2 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit | The text at the top of the screen ("USB BASIC v1.3" should be | | | | |
| | | | RETURN: | duplicated in the middle of the screen, with the Ok beneath the COPY | | | | |
| | | | COPY \$3000,\$3000+440,120 | command near the top. | | | | 1 |
| E-3.2.6.1 | AL S1 + MX | Test ATN | From the AquaLite menu, select File > Hard Reset, and then hit the | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | line with a cursor below. | | | | |
| E-3.2.6.2 | AL S1 + MX | 1 | From the USB BASIC command screen type the code below and hit | System should display .785398 on the next line with Ok beneath. | | | | |
| | | | RETURN: | | | | | |
| | | | PRINT ATN(1) | | | | | |
| E-3.2.7.1 | AL S1 + MX | Test DEC | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| | | | | | | | | |
| E-3.2.7.2 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit | System should display 22015 on the next line with Ok beneath. | | | | |
| | | | RETURN: | | | | | |
| | | | PRINT DEC("55FF") | | | | | |
| E-3.2.8.1 | AL S1 + MX | Test DEEK | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| l | | | | | | <u> </u> | | <u> </u> |
| E-3.2.8.2 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit | System should display 6B4F on the next line with Ok beneath. (\$4F is | | | | |
| | | | RETURN: | the "O" character and \$6B is the "k" character from the top left of the | | | | |
| | | | PRINT HEX\$ (DEEK (12288+41)) | screen.) | | | | |
| E-3.2.9.1 | AL S1 + MX | Test DOKE | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| | | | | | | | | |
| E-3.2.9.2 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit | System should display Hi at the top left of the screen and show Ok | | | | |
| | | | RETURN: | beneath the DOKE command line. (\$48 is the "H" character and \$69 is | | | l | |
| | | | DOKE 12288+41,\$6948 | the "i" character.) | | <u> </u> | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|-------------|--------------|------------------|--|---|-----------------------------------|-----------|----------|--|
| E-3.2.10.1 | ALS1 + MX | Test KEY | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-3.2.10.2 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit | System should show each line typed, and move down to the empty | | | | |
| E-3.2.10.2 | AL 31 + IVIX | | RETURN after each line: | line beneath. | | | | |
| | | | 10 CLS 42 | | | | | |
| | | | 20 LOCATE 20,12 30 PRINT CHR\$(KEY(0)) | | | | | |
| E-3.2.10.3 | AL S1 + MX | | From the USB BASIC command screen type RUN and hit RETURN | System should clear the screen to GREEN letters on a PURPLE | | | | |
| 2 3.2.10.3 | 712.51 | | Troil the obs state command screen type 2002 and menter only | background and move the GREEN cursor to the middle of the screen, | | | | |
| | | | | waiting for input. | | | | |
| E-3.2.10.4 | ALS1 + MX | | With the cursor in the middle of the screen, press the M key (without the SHIFT key pressed). | System should display a "m" in the middle of the screen, then go to the next line and print Ok beneath. | | | | |
| E-3.2.11.1 | ALS1 + MX | Test SDTM | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| | | | | 7, | | | | |
| E-3.2.11.2 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit | System should display Ok beneath. (Note: On AquaLite, there is no | | | | |
| | | | RETURN: SDTM "230517010101" | way to actually SET the DateTime, so it will stay set to the hosting computer's system clock.) | | | | |
| E-3.2.11.3 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit | System should display SN Error beneath. | | | | |
| | | | RETURN: | | | | | |
| 5 2 2 4 2 4 | ALCA - NAV | T+ DTA | SDTM "kkk" | Contain the old also the arrange and the oral | | | | <u> </u> |
| E-3.2.12.1 | ALS1 + MX | Test DTM\$ | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-3.2.12.2 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit | System should display a string with the current date and time, | | | | |
| | | | RETURN: | formatted YYMMDDHHMMSSCC, with Ok beneath. | | | | |
| E-3.2.12.3 | AL S1 + MX | | PRINT DTM\$ (0) From the USB BASIC command screen type the code below and hit | System should display a string with the current date and time, | | | | |
| L-3.2.12.3 | AL 31 + IVIX | | RETURN: | formatted YYYY-MM-DD HH:MM:SS, with Ok beneath. Note that the | | | | |
| | | | PRINT DTM\$(1) | Century is assumed to be 20, and the hours are in 24 hour format. | | | | |
| E-3.2.12.4 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit | System should display a string with the current date, formatted YYYY- | | | | ļ |
| E-3.2.12.4 | AL 31 + IVIX | | RETURN: | MM-DD, with Ok beneath. Note that the Century is assumed to be 20. | | | | |
| | | | PRINT LEFT\$ (DTM\$ (1),10) | , | | | | |
| E-3.2.12.5 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit | System should display a string with the current time, formatted | | | | |
| | | | RETURN: PRINT RIGHT(DTM\$(1),8)) | HH:MM:SS, with Ok beneath. Note that the hours are in 24 hour format. | | | | |
| E-3.2.13.1 | ALS1 + MX | Test VER | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| | | | | | | | | |
| E-3.2.13.2 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit RETURN: | System should display 0103, with Ok beneath. | | | | |
| | | | PRINT HEX\$(VER(0)) | | | | | |
| E-3.2.13.3 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit | System should display 1, with Ok beneath. | | | | |
| | | | RETURN: PRINT VAL(LEFT\$(HEX\$(VER(0)),2)) | | | | | |
| E-3.2.13.4 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit | System should display 3, with Ok beneath. | | | | _ |
| | | | RETURN: | | | | | |
| | | | PRINT VAL(RIGHT\$(HEX\$(VER(0)),2)) | | | | | |
| E-3.2.14.1 | ALS1 + MX | Test DEF FN / FN | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| E-3.2.14.2 | ALS1 + MX | | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| | | | | | | | | |
| E-3.2.14.3 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit | System should show each line typed, and move down to the empty | | | | |
| | | | RETURN after each line: 10 DEF FN A(X) = X+7 | line beneath. | | | | |
| | | | 20 PRINT FN A(9) | | | | |] |
| | | | 30 PRINT FN A(20) | | | | | ļļ |
| E-3.2.14.4 | ALS1 + MX | | From the USB BASIC command screen type RUN and hit RETURN | System should print 16 on one line, 27 beneath it, with Ok beneath th | e | | |] |
| E-3.2.14.5 | AL S1 + MX | | From the USB BASIC command screen type the code below and hit | System should print 14, with Ok beneath. | | | | \vdash |
| | | | RETURN: | | | | | |
| | | | PRINT FN A(7) | | | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|------------|-------------|------------------|---|--|-----------------------------------|-----------|----------|-----------|
| E-3.2.15.1 | AL S2 + MX | Test & Operator | From the AquaLite menu, select File > Hard Reset, and then hit the | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | line with a cursor below. | | | | |
| E-3.2.15.2 | AL S2 + MX | | From the USB BASIC command screen type the code below and hit | System should show each line typed, and move down to the empty | | | | |
| | | | RETURN after each line: 10 A\$="ABCDEFG" 20 COPY DEER(&A\$+2),\$3291,PEEK(&A\$) 30 PRINT "A\$ length =" + STR\$(PEEK(&A\$)) | line beneath. | | | | |
| E-3.2.15.3 | AL S2 + MX | | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-3.2.15.4 | AL S2 + MX | 1 | From the USB BASIC command screen type RUN and hit RETURN | System should print A\$ length = 7 with Ok beneath, and should print | | | | |
| | | | | ABCDEFG near the middle bottom of the screen. | | | | |
| E-3.2.16 | ALS1 + MX | TESTING COMPLETE | From the AquaLite menu, select File > Hard Reset, and then hit the | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | line with a cursor below. | | | | |
| | | | | TESTING IS COMPLETE | | | | |



| Alpha Test Plan | Tester Name: | |
|-----------------|------------------------|------------------------------------|
| USB BASIC v1.3 | Date Completed: | |
| E4 | Environment(s) Tested: | Hardware S2 + Aquarius MX with RTC |

Setup

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|---------|----------------|-------------------------|--|---|------------------------------------|-----------|----------|-----------|
| E-4.0.0 | HW S2 + MX RTC | Setup Hardware MX + RTC | | | | | | |
| E-4.0.1 | HW S2 + MX RTC | | Download & update MX EPROM to v1.3 (64k) | MX ROM is updated to v1.3 | | | | |
| E-4.0.2 | HW S2 + MX RTC | | Ensure hardware update to RTC socket has been completed. | MX board should be ready to use RTC unit. | | | | |
| E-4.0.3 | HW S2 + MX RTC | | Remove 32k RAM and replace with Dallas DS1244Y DIP RTC unit. | MX board should have the RTC installed in place of RAM. | | | | |
| E-4.0.4 | HW S2 + MX RTC | | Install MX unit and boot Aquarius. | The "Aquarius MX USB BASIC v1.3" screen should be displayed. | | | | |
| E-4.0.5 | HW S2 + MX RTC | | Press the A key within the emulator. | The "About USB BASIC" screen should be displayed. Release Date | | | | |
| | | | | should show "Alpha 2023-05-07". | | | | |
| E-4.0.6 | HW S2 + MX RTC | | Press any key to exit the About screen. | The "Aquarius MX USB BASIC v1.3" screen should be displayed. | | | | |
| E-4.0.7 | HW S2 + MX RTC | - | Press RETURN/ENTER key to go to the USB BASIC command screen. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be | | | | |
| | | | Note: This screen is the starting point for most tests in this plan. | displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on | | | | |
| | | | | the next line with a cursor below. | | | | |
| | | DO NO | OT CONTINUE IF ANY TESTS IN THIS SECTION DID | NOT PASS! CONTACT THE TESTING COORDINATO | R, Sean Harrington sph@1stage.com. | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|-----------|----------------|----------------------|---|---|-----------------------------------|-----------|----------|-----------|
| E-4.1.0 | HW S2 + MX RTC | Test legacy commands | | | | | | |
| E-4.1.1.1 | HW S2 + MX RTC | Test CALL xx | From the USB BASIC command screen type CALL \$8000 and hit RETURN | The cursor should move down one row, and the system should freeze. | | | | |
| E-4.1.1.2 | HW S2 + MX RTC | | Power off and then back on the Aquarius, and then hit the | The "Copyright © 1982 by Microsoft, Inc S2" screen should be | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on | | | | |
| | | | | the next line with a cursor below. | | | | |
| E-4.1.1.3 | HW S2 + MX RTC | | From the USB BASIC command screen type CALL -32768 and hit RETURN | The cursor should move down one row, and the system should freeze. | | | | |
| E-4.1.1.4 | HW S2 + MX RTC | | Power off and then back on the Aquarius, and then hit the | The "Copyright © 1982 by Microsoft, Inc S2" screen should be | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on | | | | |
| | | | | the next line with a cursor below. | | | | |
| E-4.1.1.5 | HW S2 + MX RTC | | From the USB BASIC command screen type CALL 32768 (NO minus sign!) and hit RETURN | The cursor should move down one row, and the system should freeze. | | | | |
| E-4.1.1.6 | HW S2 + MX RTC | | Power off and then back on the Aquarius, and then hit the | The "Copyright © 1982 by Microsoft, Inc S2" screen should be | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on | | | | |
| | | | | the next line with a cursor below. | | | | |
| E-4.1.2 | HW S2 + MX RTC | Test CAT | From the USB BASIC command screen type CAT and hit RETURN | System should display a brief listing of the contents of the USB stick. | | | | |
| | | | | Note that the contents can vary from system to system. | | | | |
| E-4.1.3.1 | HW S2 + MX RTC | Test CD | From the USB BASIC command screen type CD and hit RETURN | The cursor should move down one row, and a / character should be | | | | |
| | | | | displayed, followed by Ok beneath. | | | | |
| E-4.1.3.2 | HW S2 + MX RTC | | From the USB BASIC command screen type CD"ROMS" and hit RETURN | The cursor should move down one row and display Ok beneath. | | | | |
| E-4.1.4 | HW S2 + MX RTC | Test DIR | From the USB BASIC command screen type DIR and hit RETURN | System should display a detailed listing of the contents of the USB | | | | |
| | | | | stick. Note that the RETURN/ENTER key may have to be pressed one | | | | |
| | | | | or more times to scroll through the full list of contents. | | | | |
| E-4.1.5.1 | HW S2 + MX RTC | Test CLS | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok in black letters on a cyan | | | | <u> </u> |
| | | | | background. | | | | |
| E-4.1.5.2 | HW S2 + MX RTC | | From the USB BASIC command screen type CLS 8 and hit RETURN | System should clear the screen and show Ok in black letters on a grey | | | | |
| | L | | | background. | | | | |
| E-4.1.5.3 | HW S2 + MX RTC | | From the USB BASIC command screen type CLS \$7D and hit RETURN | System should clear the screen and show Ok in white letters on a dark | | | | |
| | 1 | 4 | | green background. | | | | |
| E-4.1.5.4 | HW S2 + MX RTC | | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok in black letters on a cyan | | | | |
| | 1 | | | background. | 1 | 1 | l | 1 |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|-------------|--------------------|------------------------|---|--|-----------------------------------|-----------|----------|--|
| E-4.1.6.1 | | Test SAVE a BASIC file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| | | | | | | | | <u> </u> |
| E-4.1.6.2 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should show each line typed, and move down to the empty | | | | |
| | | | RETURN after each line: 10 REM Testing SAVE | line beneath. | | | | |
| | | | 20 CLS | | | | | |
| | | | 30 PRINT "Hello" | | | | | |
| E-4.1.6.3 | HW S2 + MX RTC | | From the USB BASIC command screen type LIST and hit RETURN | System should show all three lines in the program and display Ok | | | | |
| | | | | beneath. | | | | |
| E-4.1.6.4 | HW S2 + MX RTC | | From the USB BASIC command screen type SAVE "TEST01.BAS" | The cursor should move down one row and display Ok beneath. In the | | | | |
| | | | and hit RETURN | USB drive, there should be a new file named TEST01.BAS. | | | | 1 |
| E-4.1.6.5 | HW S2 + MX RTC | | From the USB BASIC command screen type CAT and hit RETURN | System should display a brief listing of the contents of the folder, and | | | | |
| | | | ·· | the "TEST01.BAS" file should be lised among those files. Note that the | | | | |
| | | | | RETURN/ENTER key may have to be pressed one or more times to | | | | 1 |
| | | | | scroll through the full list of contents. | | | | |
| E-4.1.7.1 | HW S2 + MX RTC | Test LOAD a BASIC file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | - |
| L | SE : WIX RIC | | | | | | | / |
| E-4.1.7.2 | HW S2 + MX RTC | | From the USB BASIC command screen type LIST and hit RETURN | System should display NO PROGRAM LINES with Ok beneath. | | | | |
| | | | | | | | | <u> </u> |
| E-4.1.7.3 | HW S2 + MX RTC | | From the USB BASIC command screen type LOAD "TEST01.BAS" | System should display Ok beneath. | | | | |
| 54474 | LINAV CO . NAV DTC | | and hit RETURN | Contains the old the confliction of the contains the cont | | | | ļ |
| E-4.1.7.4 | HW S2 + MX RTC | | From the USB BASIC command screen type LIST and hit RETURN | System should show all three lines in the program listed in test E- 4.1.6.2 and display Ok beneath. | | | | |
| E-4.1.8.1 | HW S2 + MX RTC | Test RUN a BASIC file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | |
| E-4.1.8.2 | HW S2 + MX RTC | | From the USB BASIC command screen type RUN "TEST01.BAS" | System should clear the screen, print Hello at the top, and display Ok | | | | |
| | | | and hit RETURN | beneath. | | | | |
| E-4.1.9.1 | HW S2 + MX RTC | Test DEL | From the USB BASIC command screen type DEL "TEST01.BAS" | System should display Ok beneath. | | | | |
| E-4.1.9.2 | HW S2 + MX RTC | | and hit RETURN From the USB BASIC command screen type CAT and hit RETURN | System should display a brief listing of the contents of the folder, and | | | | - |
| L-4.1.5.2 | TIW 32 + WIX RTC | | From the OSB BASIC Command Screen type CAT and the RETORN | the "TEST01.BAS" file SHOULD NOT be lised among those files. Note | | | | |
| | | | | that the RETURN/ENTER key may have to be pressed one or more | | | | |
| | | | | times to scroll through the full list of contents. | | | | |
| 5 4 4 4 9 4 | | T . C. 11/5 P. 11/5/ | E di uso passo | | | | | |
| E-4.1.10.1 | HW S2 + MX RTC | Test SAVE a BIN file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| E-4.1.10.2 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should show each line typed, and move down to the empty | | | | |
| | | | RETURN after each line: | line beneath. | | | | |
| | | | 10 REM Testing SAVE BIN | | | | | |
| | | | 20 POKE \$8000,97,98,99,100 30 PRINT "Done" | | | | | |
| E-4.1.10.3 | HW S2 + MX RTC | | | Custom should show all three lines in the program and display Ok | | | | |
| L-4.1.1U.3 | 11VV 32 TIVIA RIC | | From the USB BASIC command screen type LIST and hit RETURN | System should show all three lines in the program and display Ok beneath. | | 1 | | |
| E-4.1.10.4 | HW S2 + MX RTC | | From the USB BASIC command screen type RUN and hit RETURN | System should print Done and display Ok beneath the program listing. | | | | |
| | | | | | | | | |
| E-4.1.10.5 | HW S2 + MX RTC | | From the USB BASIC command screen type CD "/" and hit RETURN | System should display Ok beneath. | |] | | |
| E-4.1.10.6 | LIM CO . MAY DOO | | From the LICE DACIC command command to the said balance | Custom should display Ok happath | | | | \vdash |
| E-4.1.10.6 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit RETURN: | System should display Ok beneath. | | | | |
| | | | SAVE "POKE.BIN", \$8000, 4 | | | | | |
| E-4.1.10.7 | HW S2 + MX RTC | | From the USB BASIC command screen type DIR and hit RETURN | System should display a detailed listing of the contents of the USB | | | | |
| | | | | drive, and the file named "POKE.BIN" should be listed in the contents. | | 1 | | |
| | | | | Note that the RETURN/ENTER key may have to be pressed one or | | | | |
| | | | | more times to scroll past the full list of contents. | | 1 | | |
| E-4.1.11.1 | HW S2 + MX RTC | Test LOAD a BIN file | Power off and then back on the Aquarius, and then hit the | The "Copyright © 1982 by Microsoft, Inc S2" screen should be | | | | ++ |
| | 52 - 1150 1110 | | RETURN/ENTER key to go to USB BASIC. | displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on | | | | |
| | | | , , | the next line with a cursor below. | | | | |
| E-4.1.11.2 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should display abcd in the middle of the screen, with Ok | | | | |
| | | | RETURN: | beneath the text you just typed. | | 1 | | |
| | | | LOAD "POKE.BIN", \$3242 | | | l | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|-------------|------------------------|---------------------|--|--|-----------------------------------|-----------|----------|-----------|
| E-4.1.12.1 | HW S2 + MX RTC | Test RUN a ROM file | Power off and then back on the Aquarius, and then hit the | The "Copyright © 1982 by Microsoft, Inc S2" screen should be | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on | | | | |
| | | | | the next line with a cursor below. | | | | |
| E-4.1.12.2 | HW S2 + MX RTC | | From the USB BASIC command screen type CD"ROMS" and hit RETURN | The cursor should move down one row and display Ok beneath. | | | | |
| E-4.1.12.3 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should load the SNAFU game ROM and display the SNAFU title | | | | |
| | | | RETURN: RUN "SNAFU.ROM" | screen. | | | | |
| E-4.1.12.4 | HW S2 + MX RTC | | Power off and then back on the Aquarius, and then hit the | The "Copyright © 1982 by Microsoft, Inc S2" screen should be | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on | | | | |
| | | | | the next line with a cursor below. | | | | |
| E-4.1.13.1 | HW S2 + MX RTC | Test DEBUG | From the USB BASIC command screen type DEBUG and hit RETURN | The AQUBUG screen should pop up with white text on a blue background. | | | | |
| E-4.1.13.2 | HW S2 + MX RTC | | On the AQUBUG screen type the letter Q | System should return to the USB BASIC command screen, showing the DEBUG command with Ok beneath. | | | | |
| E-4.1.14.1 | HW S2 + MX RTC | Test HFX\$ | From the USB BASIC command screen type the code below and hit | System should display 3000 on the next line with Ok beneath. | | | | |
| | | | RETURN: PRINT HEX\$(12288) | | | | | |
| E-4.1.14.2 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should display FF85 on the next line with Ok beneath. | | | | |
| L 4.1.14.2 | 11W 32 1 WX KTC | | RETURN: PRINT HEX\$ (-123) | System should display 1105 on the next line with ox beneath. | | | | |
| E-4.1.14.3 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should display FFFF on the next line with Ok beneath. | | | | |
| L-4.1.14.3 | 11VV 32 ₹ IVIA R IC | | RETURN: PRINT HEXS (65535) | System should display fiff on the next line with Ox beneath. | | | | |
| E-4.1.15 | HW S2 + MX RTC | Test IOV | | System should display 64 on the next line with Ok beneath. If you | | | | |
| L-4.1.13 | 11VV 32 → IVIA RIC | 1636301 | type RETURN and the 1 key at about the same time (maybe a slight | weren't able to get it to work exactly right, a 0 might be displayed | | | | |
| | | | delay before the 1 key): PRINT JOY(0) | instead of the 64. Try a couple of times to get it to work, if you can. | | | | |
| E-4.1.16 | HW S2 + MX RTC | Test IN | From the USB BASIC command screen type the code below and hit | System should display 247 on the next line with Ok beneath. | | | | |
| £ 4.1.10 | TIW 32 TWANTE | resenv | RETURN: PRINT IN (\$FF) | System should display 247 on the next line with ox beneath. | | | | |
| E-4.1.17.1 | HW S2 + MX RTC | Test PSG | From the USB BASIC command screen type the code below and hit | System should play a Db4 tone continuously. | | | | |
| L 4.1.17.1 | 11W 32 1 WX KTC | icse i so | RETURN: PSG 8,15,0,148,1,1,7,56 | System should play a 554 tone continuously. | | | | |
| E-4.1.17.2 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should stop playing the tone. | | | | |
| E-4.1.17.2 | HW 32 + WIX KTC | | RETURN: | system should stop playing the tone. | | | | |
| E-4.1.18.1 | HW S2 + MX RTC | Toot OUT | PSG 8,0,7,0 From the USB BASIC command screen type the code below and hit | System should play a Db4 tone continuously and print Ok beneath. | | | | |
| E-4.1.18.1 | HW 52 + MX KIC | rest OUT | RETURN: | System should play a Db4 tone continuously and print Ok beneath. | | | | |
| | | | PSG 8,15,0,148,1,1,7,56 | | | | | |
| E-4.1.18.2 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should print Ok after each RETURN, and then should stop | | | | |
| | | | RETURN after each line: | playing the tone after the second. | | | | |
| | | | OUT \$F6,0 | | | | | |
| E-4.1.19.1 | HW S2 + MX RTC | Test EDIT | Power off and then back on the Aquarius, and then hit the | The "Copyright © 1982 by Microsoft, Inc S2" screen should be | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-4.1.19.2 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should show each line typed, and move down to the empty | | | | |
| | | | RETURN: 10 REM Testing EDIT | line beneath. | | | | |
| E-4.1.19.3 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should list the previously entered line 10 with a blue cursor | | İ | | |
| | | | RETURN: EDIT 10 | and white text positioned over the R in the REM command. | | | | |
| E-4.1.19.4 | HW S2 + MX RTC | | Within the line 10 edit with the cursor on the R of REM, press the | System should display line 10 with a SPACE between the 10 and the | | | | |
| | | | SPACE bar to insert a space between the line number 10 and the REM statement. | REM command. | | | | |
| E-4.1.19.5 | HW S2 + MX RTC | | Within the line 10 edit with the cursor on the R of REM, CTRL + / | System should list the previously entered line 10 with a blue cursor | | | | |
| | | | eleven times so the cursor is on top of the SPACE after the word Testing. | and white text positioned over the SPACE after the word Testing. | | | | |
| E-4.1.19.6 | HW S2 + MX RTC | | Within the line 10 edit with the cursor on the SPACE between the | System should list the previously entered line 10 with a blue cursor | | | | |
| | | | word Testing and EDIT, press the DELETE/BACKSPACE key three times to delete the letters "ing" at the end of the word Testing. | and white text positioned over the SPACE before the word EDIT. | | | | |
| E 4 4 40 E | | | | | | | | |
| E-4.1.19.7 | HW S2 + MX RTC | | Within the line 10 edit with the cursor on the SPACE between the word Test and EDIT, press CTRL + P eight times so the cursor is over | The cursor should go to the line beneath line 10, and should NOT display Ok beneath. | | | | |
| | | | the letter R in REM, and then hit RETURN/ENTER. | uispiay Ok belieatii. | | | | |
| E 4 4 4 0 0 | HW S2 + MX RTC | | From the LICE DACIC command course through helps | Custom should display a blank line that But But II a 40 and a 111 Cl | | | | |
| | ■ □ vv 52 + IVIX R I C | I | From the USB BASIC command screen type the code below and hit | System should display a blank line, then list line 10 again, with Ok | | | | |
| E-4.1.19.8 | | | RETURN: | beneath. | | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|------------|----------------|---------------|--|---|-----------------------------------|-----------|----------|-------------|
| E-4.1.20.1 | HW S2 + MX RTC | Test LOCATE | From the USB BASIC command screen type the code below and hit RETURN after each line: 10 CLS 20 LOCATE 20,12 30 PRINT CHR\$ (KEY(0)) | System should show each line typed, and move down to the empty line beneath. | | | | |
| E-4.1.20.2 | HW S2 + MX RTC | - | From the USB BASIC command screen type RUN and hit RETURN | System should move the cursor to the middle of the screen. | | | | |
| E-4.1.20.3 | HW S2 + MX RTC | - | With the cursor in the middle of the screen, press the G key. | System should display a "g" in the middle of the screen, then go to the next line and print Ok beneath. | | | | |
| E-4.1.20.4 | HW S2 + MX RTC | | Power off and then back on the Aquarius, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-4.1.21.1 | HW S2 + MX RTC | Test CTRL + C | Power off and then back on the Aquarius, Do NOT hit RETURN. Stay on the Aqualite menu. | The "Aquarius MX USB BASIC v1.3" screen should be displayed. There should NOT be an option near the bottom that says " <ctrl+c> Warm Start"</ctrl+c> | | | | |
| E-4.1.21.2 | HW S2 + MX RTC | | Hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-4.1.21.3 | HW S2 + MX RTC | | Press the RST (reset) key on the Aquarius. <i>Do NOT hit RETURN. Stay on the AquaLite menu.</i> | The "Aquarius MX USB BASIC v1.3" screen should be displayed. There SHOULD be an option near the bottom that says " <ctrl+c> Warm Start"</ctrl+c> | | | | |
| E-4.1.21.4 | HW S2 + MX RTC | | Press CTRL + C. | A blank screen with "Break", followed by "Ok" on the next line with a cursor below. | | | | |
| | | | PLEASE CONTINUE | EVEN IF ALL TESTS IN THIS SECTION DID NOT PAS | S. | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|-----------|----------------|--------------------------|--|--|-----------------------------------|-----------|----------|-----------|
| E-4.2.0 | HW S2 + MX RTC | Test NEW commands | | | | | | |
| E-4.2.1.1 | | Test POKE auto-increment | Power off and then back on the Aquarius, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-4.2.1.2 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit RETURN: POKE 12945, 97, 98, 99, 100 | The screen should print abcd in a row towards the middle bottom of the screen. | | | | |
| E-4.2.2.1 | HW S2 + MX RTC | Test POKE range | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok. | | | | |
| E-4.2.2.2 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291 TO \$3299,97 | The screen should print aaaaaaaaa (nine letter a's) in a row towards the middle bottom of the screen. | | | | |
| E-4.2.3.1 | HW S2 + MX RTC | Test POKE step | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok. | | | | |
| E-4.2.3.2 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291,97,STEP 40,97,STEP 40,97 | The screen should print aaa (three letter a's) in a downward line at the middle bottom of the screen. | | | | |
| E-4.2.4.1 | HW S2 + MX RTC | Test POKE strings | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok. | | | | |
| E-4.2.4.2 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291, "Hubba", STEP 40, "Bubba" | The screen should print the words Hubba Bubba stacked on top of each other at the middle bottom of the screen. | | | | |
| E-4.2.5.1 | HW S2 + MX RTC | Test COPY | Power off and then back on the Aquarius, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-4.2.5.2 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit RETURN: COPY \$3000,\$3000+440,120 | The text at the top of the screen ("Copyright © 1982 by Microsoft, Inc S2" & "USB BASIC v1.3" should be duplicated in the middle of the screen, with the Ok beneath the COPY command near the top. | | | | |
| E-4.2.6.1 | HW S2 + MX RTC | Test ATN | Power off and then back on the Aquarius, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-4.2.6.2 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit RETURN: PRINT ATN (1) | System should display .785398 on the next line with Ok beneath. | | | | |
| E-4.2.7.1 | HW S2 + MX RTC | Test DEC | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-4.2.7.2 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit RETURN: PRINT DEC ("55FF") | System should display 22015 on the next line with Ok beneath. | | | | |
| E-4.2.8.1 | HW S2 + MX RTC | Test DEEK | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-4.2.8.2 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit RETURN: PRINT HEX\$ (DEEK (12288+41)) | System should display 684F on the next line with Ok beneath. (\$4F is the "O" character and \$6B is the "k" character from the top left of the screen.) | | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|------------|----------------|------------------|---|--|-----------------------------------|-----------|----------|--|
| E-4.2.9.1 | HW S2 + MX RTC | Test DOKE | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-4.2.9.2 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit RETURN: | System should display Hi at the top left of the screen and show Ok beneath the DOKE command line. (\$48 is the "H" character and \$69 is | | | | |
| E-4.2.10.1 | HW S2 + MX RTC | Test KEY | DOKE 12288+41,\$6948 From the USB BASIC command screen type CLS and hit RETURN | the "i" character.) System should clear the screen and show Ok . | | | | |
| E-4.2.10.2 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit RETURN after each line: 10 CLS 42 20 LOCATE 20,12 30 PRINT CHRS (KEY(0)) | System should show each line typed, and move down to the empty line beneath. | | | | |
| E-4.2.10.3 | HW S2 + MX RTC | | From the USB BASIC command screen type RUN and hit RETURN | System should clear the screen to GREEN letters on a PURPLE background and move the GREEN cursor to the middle of the screen, waiting for input. | | | | |
| E-4.2.10.4 | HW S2 + MX RTC | | With the cursor in the middle of the screen, press the M key (without the SHIFT key pressed). | System should display a "m" in the middle of the screen, then go to the next line and print Ok beneath. | | | | |
| E-4.2.11.1 | HW S2 + MX RTC | Test SDTM | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-4.2.11.2 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit RETURN, replacing "YYMMDDHHMMSS" with the current DateTime settings: SDTM "YYMMDDHHMMSS" | System should display Ok beneath. | | | | |
| E-4.2.11.3 | HW S2 + MX RTC | | Power off and then back on the Aquarius. | The "Aquarius MX USB BASIC v1.3" screen should be displayed with the correct date and time shown at the bottom of the screen, with seconds ticking by. | | | | |
| E-4.2.12.1 | HW S2 + MX RTC | Test DTM\$ | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | 7 |
| E-4.2.12.2 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit RETURN: PRINT DTM\$ (0) | System should display a string with the current date and time, formatted YYMMDDHHMMSSCC, with Ok beneath. | | | | |
| E-4.2.12.3 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit RETURN: PRINT DTM\$ (1) | System should display a string with the current date and time, formatted YYYY-MM-DD HH:MM:SS, with Ok beneath. Note that the Century is assumed to be 20, and the hours are in 24 hour format. | | | | |
| E-4.2.12.4 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit RETURN: PRINT LEFT\$ (DTM\$ (1),10) | System should display a string with the current date, formatted YYYY-MM-DD, with Ok beneath. Note that the Century is assumed to be 20. | | | | |
| E-4.2.12.5 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit RETURN: PRINT RIGHT (DTM\$ (1),8)) | System should display a string with the current time, formatted HH:MM:SS, with Ok beneath. Note that the hours are in 24 hour format. | | | | |
| E-4.2.13.1 | HW S2 + MX RTC | Test VER | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-4.2.13.2 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit RETURN: PRINT HEX\$ (VER (0)) | System should display 0103, with Ok beneath. | | | | |
| E-4.2.13.3 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit RETURN: PRINT VAL(LEFT\$(HEX\$(VER(0)),2)) | System should display 1, with Ok beneath. | | | | |
| E-4.2.13.4 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit RETURN: PRINT VAL(RIGHT\$(HEX\$(VER(0)),2)) | System should display 3, with Ok beneath. | | | | |
| E-4.2.14.1 | HW S2 + MX RTC | Test DEF FN / FN | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| E-4.2.14.2 | HW S2 + MX RTC | | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-4.2.14.3 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit RETURN after each line: 10 DEF FN A(X) = X+7 20 PRINT FN A(9) 30 PRINT FN A(20) | System should show each line typed, and move down to the empty line beneath. | | | | |
| E-4.2.14.4 | HW S2 + MX RTC | | From the USB BASIC command screen type RUN and hit RETURN | System should print 16 on one line, 27 beneath it, with Ok beneath the 27. | | | | |
| E-4.2.14.5 | HW S2 + MX RTC | | From the USB BASIC command screen type the code below and hit RETURN: PRINT FN A (7) | System should print 14, with Ok beneath. | | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|------------|----------------|------------------|--|---|-----------------------------------|-----------|----------|-----------|
| E-4.2.15.1 | AL S2 + MX | Test & Operator | Power off and then back on the Aquarius, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-4.2.15.2 | AL S2 + MX | | From the USB BASIC command screen type the code below and hit RETURN after each line: 10 A\$="ABCDEFG" 20 COPY DEEK(&A\$+2),\$3291,PEEK(&A\$) 30 PRINT "A\$ length =" + STR\$(PEEK(&A\$)) | System should show each line typed, and move down to the empty line beneath. | | | | |
| E-4.2.15.3 | AL S2 + MX |] | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-4.2.15.4 | AL S2 + MX |] | From the USB BASIC command screen type RUN and hit RETURN | System should print A\$ length = 7 with Ok beneath, and should print ABCDEFG near the middle bottom of the screen. | | | | |
| E-4.2.16 | HW S2 + MX RTC | TESTING COMPLETE | Power off and then back on the Aquarius, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| | | | | TESTING IS COMPLETE | | | | |



| Alpha Test Plan | Tester Name: | |
|-----------------|------------------------|----------------------------------|
| USB BASIC v1.3 | Date Completed: | |
| E5 | Environment(s) Tested: | Hardware S2 + Aquarius MX NO RTC |

Setup

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|---------|----------------|-------------------------|--|---|------------------------------------|-----------|----------|-----------|
| E-5.0.0 | HW S2 + NO RTC | Setup Hardware MX + RTC | | | | | | |
| E-5.0.1 | HW S2 + NO RTC | | Download & update MX EPROM to v1.3 (64k) | MX ROM is updated to v1.3 | | | | |
| E-5.0.2 | HW S2 + NO RTC | | Install MX unit and boot Aquarius. | The "Aquarius MX USB BASIC v1.3" screen should be displayed. | | | | |
| E-5.0.3 | HW S2 + NO RTC | | Press the A key within the emulator. | The "About USB BASIC" screen should be displayed. Release Date | | | | |
| | | | | should show "Alpha 2023-05-07". | | | | i |
| E-5.0.4 | HW S2 + NO RTC | 1 | Press any key to exit the About screen. | The "Aquarius MX USB BASIC v1.3" screen should be displayed. | | | | |
| E-5.0.5 | HW S2 + NO RTC | | Press RETURN/ENTER key to go to the USB BASIC command screen. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be | | | | |
| | | | Note: This screen is the starting point for most tests in this plan. | displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on | | | | |
| | | | | the next line with a cursor below. | | | | |
| | | DO NO | OT CONTINUE IF ANY TESTS IN THIS SECTION DID | NOT PASS! CONTACT THE TESTING COORDINATOR | R, Sean Harrington sph@1stage.com. | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|-----------|----------------|----------------------|---|---|-----------------------------------|-----------|----------|-----------|
| E-5.1.0 | HW S2 + NO RTC | Test legacy commands | | | | | | |
| E-5.1.1.1 | HW S2 + NO RTC | Test CALL xx | From the USB BASIC command screen type CALL \$8000 and hit RETURN | The cursor should move down one row, and the system should freeze. | | | | |
| E-5.1.1.2 | HW S2 + NO RTC | | Power off and then back on the Aquarius, and then hit the | The "Copyright © 1982 by Microsoft, Inc S2" screen should be | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on | | | | |
| | | | | the next line with a cursor below. | | | | |
| E-5.1.1.3 | HW S2 + NO RTC | | From the USB BASIC command screen type CALL -32768 and hit RETURN | The cursor should move down one row, and the system should freeze. | | | | |
| E-5.1.1.4 | HW S2 + NO RTC | 1 | Power off and then back on the Aquarius, and then hit the | The "Copyright © 1982 by Microsoft, Inc S2" screen should be | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on | | | | |
| | | | | the next line with a cursor below. | | | | |
| E-5.1.1.5 | HW S2 + NO RTC | | From the USB BASIC command screen type CALL 32768 (NO minus sign!) and hit RETURN | The cursor should move down one row, and the system should freeze. | | | | |
| E-5.1.1.6 | HW S2 + NO RTC | 1 | Power off and then back on the Aquarius, and then hit the | The "Copyright © 1982 by Microsoft, Inc S2" screen should be | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on | | | | |
| | | | | the next line with a cursor below. | | | | |
| E-5.1.2 | HW S2 + NO RTC | Test CAT | From the USB BASIC command screen type CAT and hit RETURN | System should display a brief listing of the contents of the USB stick, | | | | |
| | | | | followed by Ok beneath. Note that the contents can vary from system | | | | |
| | | | | to system. | | | | |
| E-5.1.3.1 | HW S2 + NO RTC | Test CD | From the USB BASIC command screen type CD and hit RETURN | The cursor should move down one row, and a / character should be | | | | |
| | | | | displayed, followed by Ok beneath. | | | | |
| E-5.1.3.2 | HW S2 + NO RTC | | From the USB BASIC command screen type CD"ROMS" and hit | The cursor should move down one row and display Ok beneath. | | | | |
| | | | RETURN | | | | | |
| E-5.1.4 | HW S2 + NO RTC | Test DIR | From the USB BASIC command screen type DIR and hit RETURN | System should display a detailed listing of the contents of the USB | | | | |
| | | | | stick, followed by Ok beneath. Note that the RETURN/ENTER key may | | | | |
| | | | | have to be pressed one or more times to scroll through the full list of | | | | |
| | | | | contents. | | | | |
| E-5.1.5.1 | HW S2 + NO RTC | Test CLS | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok in black letters on a cyan | | | | |
| | | | | background. | | | | |
| E-5.1.5.2 | HW S2 + NO RTC | | From the USB BASIC command screen type CLS 8 and hit RETURN | System should clear the screen and show Ok in black letters on a grey | | | | |
| | | | | background. | | | | 1 |
| E-5.1.5.3 | HW S2 + NO RTC | | From the USB BASIC command screen type CLS \$7D and hit RETURN | System should clear the screen and show Ok in white letters on a dark | | | | |
| | | | 5 1 100 0100 | green background. | | | | 1 |
| E-5.1.5.4 | HW S2 + NO RTC | | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok in black letters on a cyan | | | | |
| | | | | background. | | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|------------|----------------|------------------------|---|--|-----------------------------------|-----------|----------|-----------|
| E-5.1.6.1 | HW S2 + NO RTC | Test SAVE a BASIC file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| E-5.1.6.2 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit RETURN after each line: 10 REM Testing SAVE 20 CLS 30 PRINT "Hello" | System should show each line typed, and move down to the empty line beneath. | | | | |
| E-5.1.6.3 | HW S2 + NO RTC | | From the USB BASIC command screen type LIST and hit RETURN | System should show all three lines in the program and display Ok beneath. | | | | |
| E-5.1.6.4 | HW S2 + NO RTC | | From the USB BASIC command screen type SAVE "TEST01. BAS" and hit RETURN | The cursor should move down one row and display Ok beneath. In the USB stick, there should be a new file named TEST01.BAS. | | | | |
| E-5.1.6.5 | HW S2 + NO RTC | | From the USB BASIC command screen type CAT and hit RETURN | System should display a brief listing of the contents of the folder, and the "TESTO1.BAS" file should be lised among those files. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents. | | | | |
| E-5.1.7.1 | HW S2 + NO RTC | Test LOAD a BASIC file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| E-5.1.7.2 | HW S2 + NO RTC | | From the USB BASIC command screen type LIST and hit RETURN | System should display NO PROGRAM LINES with Ok beneath. | | | | |
| E-5.1.7.3 | HW S2 + NO RTC | | From the USB BASIC command screen type LOAD "TEST01.BAS" and hit RETURN | System should display Ok beneath. | | | | |
| E-5.1.7.4 | HW S2 + NO RTC | 1 | From the USB BASIC command screen type LIST and hit RETURN | System should show all three lines in the program listed in test E- 5.1.6.2 and display Ok beneath. | | | | |
| E-5.1.8.1 | HW S2 + NO RTC | Test RUN a BASIC file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| E-5.1.8.2 | HW S2 + NO RTC | | From the USB BASIC command screen type RUN "TEST01.BAS" and hit RETURN | System should clear the screen, print Hello at the top, and display Ok beneath. | | | | |
| E-5.1.9.1 | HW S2 + NO RTC | Test DEL | From the USB BASIC command screen type DEL "TEST01.BAS" and hit RETURN | System should display Ok beneath. | | | | |
| E-5.1.9.2 | HW S2 + NO RTC | | From the USB BASIC command screen type CAT and hit RETURN | System should display a brief listing of the contents of the folder, and the "TESTO1.BAS" file SHOULD NOT be lised among those files. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents. | | | | |
| E-5.1.10.1 | HW S2 + NO RTC | Test SAVE a BIN file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| E-5.1.10.2 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit RETURN after each line: 10 REM Testing SAVE BIN 20 POKE \$8000,97,98,99,100 30 PRINT "Done" | System should show each line typed, and move down to the empty line beneath. | | | | |
| E-5.1.10.3 | HW S2 + NO RTC | | From the USB BASIC command screen type LIST and hit RETURN | System should show all three lines in the program and display Ok beneath. | | | | |
| E-5.1.10.4 | HW S2 + NO RTC | | From the USB BASIC command screen type RUN and hit RETURN | System should print Done and display Ok beneath the program listing. | | | | |
| E-5.1.10.5 | HW S2 + NO RTC | | From the USB BASIC command screen type CD "/" and hit RETURN | System should display Ok beneath. | | | | |
| E-5.1.10.6 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit RETURN: SAVE "POKE.BIN", \$8000, 4 | System should display Ok beneath. | | | | |
| E-5.1.10.7 | HW S2 + NO RTC | | From the USB BASIC command screen type DIR and hit RETURN | System should display a detailed listing of the contents of the USB stick, and the file named "POKE.BIN" should be listed in the contents. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll past the full list of contents. | | | | |
| E-5.1.11.1 | HW S2 + NO RTC | Test LOAD a BIN file | Power off and then back on the Aquarius, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-5.1.11.2 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit RETURN: LOAD "POKE.BIN", \$3242 | System should display abcd in the middle of the screen, with Ok beneath the text you just typed. | | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|------------|------------------|---------------------|--|--|-----------------------------------|-----------|----------|-----------|
| E-5.1.12.1 | HW S2 + NO RTC | Test RUN a ROM file | Power off and then back on the Aquarius, and then hit the | The "Copyright © 1982 by Microsoft, Inc S2" screen should be | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on | | | | |
| | | | | the next line with a cursor below. | | | | |
| E-5.1.12.2 | HW S2 + NO RTC | | From the USB BASIC command screen type CD"ROMS" and hit RETURN | The cursor should move down one row and display Ok beneath. | | | | |
| E-5.1.12.3 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit | System should load the SNAFU game ROM and display the SNAFU title | | | | |
| | | | RETURN: RUN "SNAFU.ROM" | screen. | | | | |
| E-5.1.12.4 | HW S2 + NO RTC | | Power off and then back on the Aquarius, and then hit the | The "Copyright © 1982 by Microsoft, Inc S2" screen should be | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on | | | | |
| | | | | the next line with a cursor below. | | | | |
| E-5.1.13.1 | HW S2 + NO RTC | Test DEBUG | From the USB BASIC command screen type DEBUG and hit RETURN | The AQUBUG screen should pop up with white text on a blue background. | | | | |
| E-5.1.13.2 | HW S2 + NO RTC | | On the AQUBUG screen type the letter Q | System should return to the USB BASIC command screen, showing the DEBUG command with Ok beneath. | | | | |
| E-5.1.14.1 | HW S2 + NO RTC | Test HEX\$ | From the USB BASIC command screen type the code below and hit | System should display 3000 on the next line with Ok beneath. | | | | |
| | | , | RETURN: PRINT HEX\$(12288) | | | | | |
| E-5.1.14.2 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit | System should display FF85 on the next line with Ok beneath. | | | | |
| £ 5.1.14.2 | 11W 32 1 NO KIE | | RETURN: PRINT HEX\$ (-123) | System should display 1105 on the next line with ox beneath. | | | | |
| E-5.1.14.3 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit | System should display FFFF on the next line with Ok beneath. | | | | |
| E-3.1.14.3 | 11VV 32 + NU KIC | | RETURN: | Dystem should display FFFF on the next line with Ok beneath. | | | | |
| E-5.1.15 | HW S2 + NO RTC | Tort IOV | PRINT HEX\$ (65535) | System should display 64 on the next line with Oli honooth 15 | | | | |
| E-3.1.15 | 11VV 32 + NU KIC | I EST JOI | From the USB BASIC command screen type the code below and try to type RETURN and the 1 key at about the same time (maybe a slight | System should display 64 on the next line with Ok beneath. If you weren't able to get it to work exactly right, a 0 might be displayed | | | | |
| | | | delay before the 1 key): PRINT JOY (0) | instead of the 64. Try a couple of times to get it to work, if you can. | | | | |
| E-5.1.16 | HW S2 + NO RTC | Test IN | From the USB BASIC command screen type the code below and hit | System should display 247 on the next line with Ok beneath. | + | | | - |
| L-3.1.10 | 11W 32 + NO RTC | i est iiv | RETURN: PRINT IN (\$FF) | System should display 247 on the next line with ox beneath. | | | | |
| E-5.1.17.1 | HW S2 + NO RTC | Tost DSG | From the USB BASIC command screen type the code below and hit | System should play a Db4 tone continuously. | | | | |
| L-3.1.17.1 | 11W 32 + NO RTC | rest rad | RETURN: | System should play a bu4 tone continuously. | | | | |
| F F 4 47 2 | HW S2 + NO RTC | | PSG 8,15,0,148,1,1,7,56 | Contains the still atom who the thin to a | | | | |
| E-5.1.17.2 | HW S2 + NO RIC | | From the USB BASIC command screen type the code below and hit RETURN: | System should stop playing the tone. | | | | |
| E-5.1.18.1 | LINA CO - NO DEC | T+ OUT | PSG 8,0,7,0 | Control of the state of the sta | | | | |
| E-5.1.18.1 | HW S2 + NO RTC | lest OUT | From the USB BASIC command screen type the code below and hit RETURN: | System should play a Db4 tone continuously and print Ok beneath. | | | | |
| | | | PSG 8,15,0,148,1,1,7,56 | | | | | |
| E-5.1.18.2 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit | System should print Ok after each RETURN, and then should stop | | | | |
| | | | RETURN after each line: | playing the tone after the second. | | | | |
| | | | OUT \$F6,0 | | | | | |
| E-5.1.19.1 | HW S2 + NO RTC | Test EDIT | Power off and then back on the Aquarius, and then hit the | The "Copyright © 1982 by Microsoft, Inc S2" screen should be | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-5.1.19.2 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit | System should show each line typed, and move down to the empty | | | | |
| | | | RETURN: 10 REM Testing EDIT | line beneath. | | | | |
| E-5.1.19.3 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit | System should list the previously entered line 10 with a blue cursor | | | | |
| | | | RETURN: EDIT 10 | and white text positioned over the R in the REM command. | | | | |
| E-5.1.19.4 | HW S2 + NO RTC | | Within the line 10 edit with the cursor on the R of REM, press the | System should display line 10 with a SPACE between the 10 and the | | | | |
| | | | SPACE bar to insert a space between the line number 10 and the REM statement. | REM command. | | | | |
| E-5.1.19.5 | HW S2 + NO RTC | | Within the line 10 edit with the cursor on the R of REM, CTRL + / | System should list the previously entered line 10 with a blue cursor | | | | |
| | | | eleven times so the cursor is on top of the SPACE after the word Testing. | and white text positioned over the SPACE after the word Testing. | | | | |
| E-5.1.19.6 | HW S2 + NO RTC | | Within the line 10 edit with the cursor on the SPACE between the | System should list the previously entered line 10 with a blue cursor | | | | |
| | | | word Testing and EDIT, press the DELETE/BACKSPACE key three times to delete the letters "ing" at the end of the word Testing. | and white text positioned over the SPACE before the word EDIT. | | | | |
| 551105 | | | | | | | | |
| E-5.1.19.7 | HW S2 + NO RTC | | Within the line 10 edit with the cursor on the SPACE between the word Test and EDIT, press CTRL + P eight times so the cursor is over | The cursor should go to the line beneath line 10, and should NOT display Ok beneath. | | | | 1 |
| | | | the letter R in REM, and then hit RETURN/ENTER. | uispiay Ok belieatii. | | | | |
| | | | From the USB BASIC command screen type the code below and hit | Custom should display a blank line that But But II a 40 and a 111 Cl | | | | |
| E E 1 10 0 | | | | System should display a blank line, then list line 10 again, with Ok | | | | 1 |
| E-5.1.19.8 | HW S2 + NO RTC | | RETURN: | beneath. | | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|------------|-----------------|---------------|--|---|-----------------------------------|-----------|----------|--|
| E-5.1.20.1 | HW S2 + NO RTC | Test LOCATE | From the USB BASIC command screen type the code below and hit | System should show each line typed, and move down to the empty | | | | |
| | | | RETURN after each line: | line beneath. | | | | 1 |
| | | | 10 CLS | | | | | 1 |
| | | | 20 LOCATE 20,12 | | | | | 1 |
| | | | 30 PRINT CHR\$(KEY(0)) | | | | | <u> </u> |
| E-5.1.20.2 | HW S2 + NO RTC | | From the USB BASIC command screen type RUN and hit RETURN | System should move the cursor to the middle of the screen. | | | | 1 |
| | HW S2 + NO RTC | | | | | | | ├ |
| E-5.1.20.3 | HW S2 + NO RIC | | With the cursor in the middle of the screen, press the G key. | System should display a "g" in the middle of the screen, then go to the next line and print Ok beneath. | | | | i |
| E-5.1.20.4 | HW S2 + NO RTC | | Device off and the or head, and the America and the orbits the | The "Copyright © 1982 by Microsoft, Inc S2" screen should be | | | | + |
| E-5.1.20.4 | HW 52 + NO RIC | | Power off and then back on the Aquarius, and then hit the | | | | | i |
| | | | RETURN/ENTER key to go to USB BASIC. | displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | i |
| E-5.1.21.1 | HW S2 + NO RTC | T+ CTDL - C | Developed the section of the Associate Developed to the DETURN CASE. | The "Aquarius MX USB BASIC v1.3" screen should be displayed. There | | - | | — |
| E-5.1.21.1 | HW 52 + NO RIC | Test CIRL + C | Power off and then back on the Aquarius, Do NOT hit RETURN. Stay | | | | | i |
| | | | on the AquaLite menu. | should NOT be an option near the bottom that says " <ctrl+c> Warm Start"</ctrl+c> | | | | i |
| E-5.1.21.2 | HW S2 + NO RTC | | Hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be | | 1 | | |
| E-5.1.21.2 | HW 52 + NO RIC | | HIT THE RETURN/ENTER KEY TO GO TO USB BASIC. | displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on | | | | i |
| | | | | the next line with a cursor below. | | | | i |
| E-5.1.21.3 | HW S2 + NO RTC | | Press the RST (reset) key on the Aquarius. Do NOT hit RETURN. Stay | The "Aquarius MX USB BASIC v1.3" screen should be displayed. There | | 1 | | |
| E-3.1.21.3 | HW 32 + NO RIC | | on the Aqualite menu. | SHOULD be an option near the bottom that says " <ctrl+c> Warm</ctrl+c> | | | | i |
| | | | on the Aqualite menu. | Start" | | | | i |
| E-5.1.21.4 | HW S2 + NO RTC | | Press CTRL + C. | A blank screen with "Break", followed by "Ok" on the next line with a | | 1 | | - |
| L 3.1.21.4 | 11W 32 1 NO RTC | | i ress erke v e. | cursor below. | | | | i |
| E-5.1.21.1 | HW S2 + NO RTC | Test CTRL + C | Power off and then back on the Aquarius, Do NOT hit RETURN. Stay | The "Aguarius MX USB BASIC v1.3" screen should be displayed. There | | | | |
| | | | on the AquaLite menu. | should NOT be an option near the bottom that says " <ctrl+c> Warm</ctrl+c> | | | | i |
| | | | , | Start" | | | | i |
| E-5.1.21.2 | HW S2 + NO RTC | | Hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be | | | | |
| | | | | displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on | | | | i |
| | | | | the next line with a cursor below. | | | | i |
| E-5.1.21.3 | HW S2 + NO RTC | 1 | Press the RST (reset) key on the Aquarius. Do NOT hit RETURN. Stay | The "Aquarius MX USB BASIC v1.3" screen should be displayed. There | | | | |
| | | | on the AquaLite menu. | SHOULD be an option near the bottom that says " <ctrl+c> Warm</ctrl+c> | | 1 | | 1 |
| | | | | Start" | | 1 | | 1 |
| E-5.1.21.4 | HW S2 + NO RTC | 1 | Press CTRL + C. | A blank screen with "Break", followed by "Ok" on the next line with a | | | | |
| | | | | cursor below. | | | | 1 |
| | | | PLEASE CONTINUE I | EVEN IF ALL TESTS IN THIS SECTION DID NOT PAS | S. | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|-----------|----------------|--------------------------|--|--|-----------------------------------|-----------|----------|-----------|
| E-5.2.0 | HW S2 + NO RTC | Test NEW commands | | | | | | |
| E-5.2.1.1 | HW S2 + NO RTC | Test POKE auto-increment | Power off and then back on the Aquarius, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-5.2.1.2 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit RETURN: POKE 12945, 97, 98, 99, 100 | The screen should print abcd in a row towards the middle bottom of the screen. | | | | |
| E-5.2.2.1 | HW S2 + NO RTC | Test POKE range | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok. | | | | |
| E-5.2.2.2 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291 TO \$3299,97 | The screen should print aaaaaaaa (nine letter a's) in a row towards the middle bottom of the screen. | | | | |
| E-5.2.3.1 | HW S2 + NO RTC | Test POKE step | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok. | | | | |
| E-5.2.3.2 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291,97,STEP 40,97,STEP 40,97 | The screen should print aaa (three letter a's) in a downward line at the middle bottom of the screen. | | | | |
| E-5.2.4.1 | HW S2 + NO RTC | Test POKE strings | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok. | | | | |
| E-5.2.4.2 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit RETURN: POKE \$3291,"Hubba", STEP 40,"Bubba" | The screen should print the words Hubba Bubba stacked on top of each other at the middle bottom of the screen. | | | | |
| E-5.2.5.1 | HW S2 + NO RTC | Test COPY | Power off and then back on the Aquarius, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-5.2.5.2 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit RETURN: COPY \$3000,\$3000+440,120 | The text at the top of the screen ("Copyright © 1982 by Microsoft, Inc 52" & "USB BASIC v1.3" should be duplicated in the middle of the screen, with the Ok beneath the COPY command near the top. | | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|------------|----------------|-------------|---|---|-----------------------------------|-----------|----------|-----------|
| E-5.2.6.1 | HW S2 + NO RTC | Test ATN | Power off and then back on the Aquarius, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-5.2.6.2 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit RETURN: PRINT ATN (1) | System should display .785398 on the next line with Ok beneath. | | | | |
| E-5.2.7.1 | HW S2 + NO RTC | Test DEC | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-5.2.7.2 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit RETURN: PRINT DEC ("55FFF") | System should display 22015 on the next line with Ok beneath. | | | | |
| E-5.2.8.1 | HW S2 + NO RTC | Test DEEK | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-5.2.8.2 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit RETURN: PRINT HEX\$ (DEEK (12288+41)) | System should display 6B4F on the next line with Ok beneath. (\$4F is the "O" character and \$6B is the "k" character from the top left of the screen.) | | | | |
| E-5.2.9.1 | HW S2 + NO RTC | Test DOKE | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-5.2.9.2 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit RETURN: DOKE 12288+41,56948 | System should display Hi at the top left of the screen and show Ok beneath the DOKE command line. (\$48 is the "H" character and \$69 is the "i" character.) | | | | |
| E-5.2.10.1 | HW S2 + NO RTC | Test KEY | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-5.2.10.2 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit RETURN after each line: 10 CLS 42 20 LOCATE 20,12 30 PRINT CHR\$ (KEY(0)) | System should show each line typed, and move down to the empty line beneath. | | | | |
| E-5.2.10.3 | HW S2 + NO RTC | | From the USB BASIC command screen type RUN and hit RETURN | System should clear the screen to GREEN letters on a PURPLE background and move the GREEN cursor to the middle of the screen, waiting for input. | | | | |
| E-5.2.10.4 | HW S2 + NO RTC | | With the cursor in the middle of the screen, press the M key (without the SHIFT key pressed). | System should display a "m" in the middle of the screen, then go to the next line and print Ok beneath. | | | | |
| E-5.2.11.1 | HW S2 + NO RTC | Test SDTM | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-5.2.11.2 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit RETURN, replacing ""YMMDDHHMMSS" with the current DateTime settings: SDTM ""YMMDDHHMMSS" | System should display Ok beneath. | | | | |
| E-5.2.11.3 | HW S2 + NO RTC | | Power off and then back on the Aquarius | The "Aquarius MX USB BASIC v1.3" screen should be displayed with NO DATE AND TIME shown at the bottom of the screen. | | | | |
| E-5.2.12.1 | HW S2 + NO RTC | Test DTM\$ | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-5.2.12.2 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit RETURN: PRINT DTM\$ (0) | System should print a blank line with Ok beneath. | | | | |
| E-5.2.12.3 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit RETURN: PRINT DTM\$ (1) | System should print a blank line with Ok beneath. | | | | |
| E-5.2.13.1 | HW S2 + NO RTC | Test VER | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-5.2.13.2 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit RETURN: PRINT HEX\$ (VER(0)) | System should display 0103, with Ok beneath. | | | | |
| E-5.2.13.3 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit RETURN: PRINT VAL(LEFT\$(HEX\$(VER(0)),2)) | System should display 1, with Ok beneath. | | | | |
| E-5.2.13.4 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit RETURN: PRINT VAL (RIGHT\$ (HEX\$ (VER (0)), 2)) | System should display 3, with Ok beneath. | | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|------------|----------------|------------------|---|---|-----------------------------------|-----------|----------|-----------|
| E-5.2.14.1 | HW S2 + NO RTC | Test DEF FN / FN | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| E-5.2.14.2 | HW S2 + NO RTC | | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-5.2.14.3 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit RETURN after each line: 10 DEF FN A(X) = X+7 20 PRINT FN A(9) 30 PRINT FN A(20) | System should show each line typed, and move down to the empty line beneath. | | | | |
| E-5.2.14.4 | HW S2 + NO RTC | | From the USB BASIC command screen type RUN and hit RETURN | System should print 16 on one line, 27 beneath it, with Ok beneath the 27. | | | | |
| E-5.2.14.5 | HW S2 + NO RTC | | From the USB BASIC command screen type the code below and hit RETURN: PRINT FN A (7) | System should print 14, with Ok beneath. | | | | |
| E-5.2.15.1 | AL S2 + MX | Test & Operator | Power off and then back on the Aquarius, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-5.2.15.2 | AL S2 + MX | | From the USB BASIC command screen type the code below and hit RETURN after each line: 10 A\$="ABCDEFG" 20 COPY DEEK(&A\$+2),\$3291,PEEK(&A\$) 30 PRINT "A\$ length =" + STR\$(PEEK(&A\$)) | System should show each line typed, and move down to the empty line beneath. | | | | |
| E-5.2.15.3 | AL S2 + MX | | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-5.2.15.4 | AL S2 + MX | | From the USB BASIC command screen type RUN and hit RETURN | System should print A\$ length = 7 with Ok beneath, and should print ABCDEFG near the middle bottom of the screen. | | | | |
| E-5.2.16 | HW S2 + NO RTC | TESTING COMPLETE | Power off and then back on the Aquarius, and then hit the RETURN/ENTER key to go to USB BASIC. | The "Copyright © 1982 by Microsoft, Inc S2" screen should be displayed with "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| | | | | TESTING IS COMPLETE | | | | |



Alpha Test Plan
USB BASIC v1.3

| Tester Name: | |
|--------------------|------------------------------------|
| Date Completed: | |
| ronment(s) Tested: | Hardware S1 + Aquarius MX with RTC |

E6

Setup

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|---------|----------------|-------------------------|---|--|------------------------------------|-----------|----------|-----------|
| E-6.0.0 | HW S1 + MX RTC | Setup Hardware MX + RTC | | | | | | |
| E-6.0.1 | HW S1 + MX RTC | | Download & update MX EPROM to v1.3 (64k) | MX ROM is updated to v1.3 | | | | |
| E-6.0.2 | HW S1 + MX RTC | | Ensure hardware update to RTC socket has been completed. | MX board should be ready to use RTC unit. | | | | |
| E-6.0.3 | HW S1 + MX RTC | | Remove 32k RAM and replace with Dallas DS1244Y DIP RTC unit. | MX board should have the RTC installed in place of RAM. | | | | |
| E-6.0.4 | HW S1 + MX RTC | | Install MX unit and boot Aquarius. | The "Aquarius MX USB BASIC v1.3" screen should be displayed. | | | | ĺ |
| E-6.0.5 | HW S1 + MX RTC | | Press the A key within the emulator. | The "About USB BASIC" screen should be displayed. Release Date should show "Alpha 2023-05-07". | | | | |
| E-6.0.6 | HW S1 + MX RTC | 1 | Press any key to exit the About screen. | The "Aquarius MX USB BASIC v1.3" screen should be displayed. | | | | |
| E-6.0.7 | HW S1 + MX RTC | | Press RETURN/ENTER key to go to the USB BASIC command screen . Note: This screen is the starting point for most tests in this plan. | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| | | DO NO | OT CONTINUE IF ANY TESTS IN THIS SECTION DID | NOT PASS! CONTACT THE TESTING COORDINATO | R, Sean Harrington sph@1stage.com. | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|-----------|----------------|----------------------|---|--|-----------------------------------|-----------|----------|-----------|
| E-6.1.0 | HW S1 + MX RTC | Test legacy commands | | | | | | |
| E-6.1.1.1 | HW S1 + MX RTC | | From the USB BASIC command screen type CALL \$8000 and hit RETURN | The cursor should move down one row, and the system should freeze. | | | | |
| E-6.1.1.2 | HW S1 + MX RTC | | Power off and then back on the Aquarius, and then hit the RETURN/ENTER key to go to USB BASIC. | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-6.1.1.3 | HW S1 + MX RTC | | From the USB BASIC command screen type CALL -32768 and hit RETURN | The cursor should move down one row, and the system should freeze. | | | | |
| E-6.1.1.4 | HW S1 + MX RTC | | Power off and then back on the Aquarius, and then hit the RETURN/ENTER key to go to USB BASIC. | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-6.1.1.5 | HW S1 + MX RTC | | From the USB BASIC command screen type CALL 32768 (NO minus sign!) and hit RETURN | The cursor should move down one row, and the system should freeze. | | | | |
| E-6.1.1.6 | HW S1 + MX RTC | | Power off and then back on the Aquarius, and then hit the RETURN/ENTER key to go to USB BASIC. | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-6.1.2 | HW S1 + MX RTC | Test CAT | From the USB BASIC command screen type CAT and hit RETURN | System should display a brief listing of the contents of the USB stick, followed by Ok beneath. Note that the contents can vary from system to system. | | | | |
| E-6.1.3.1 | HW S1 + MX RTC | Test CD | From the USB BASIC command screen type CD and hit RETURN | The cursor should move down one row, and a / character should be displayed, followed by Ok beneath. | | | | |
| E-6.1.3.2 | HW S1 + MX RTC | | From the USB BASIC command screen type CD"ROMS" and hit RETURN | The cursor should move down one row and display Ok beneath. | | | | |
| E-6.1.4 | HW S1 + MX RTC | Test DIR | From the USB BASIC command screen type DIR and hit RETURN | System should display a detailed listing of the contents of the USB stick, followed by Ok beneath. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents. | | | | |
| E-6.1.5.1 | HW S1 + MX RTC | Test CLS | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok in black letters on a cyan background. | | | | |
| E-6.1.5.2 | HW S1 + MX RTC | 1 | From the USB BASIC command screen type CLS 8 and hit RETURN | System should clear the screen and show Ok in black letters on a grey background. | | | | |
| E-6.1.5.3 | HW S1 + MX RTC | 1 | | System should clear the screen and show Ok in white letters on a dark green background. | | | | |
| E-6.1.5.4 | HW S1 + MX RTC | 1 | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok in black letters on a cyan background. | | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|------------|----------------|------------------------|---|---|-----------------------------------|-----------|----------|-----------|
| E-6.1.6.1 | HW S1 + MX RTC | Test SAVE a BASIC file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| | | | | | | | | |
| E-6.1.6.2 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit RETURN after each line: 10 REM Testing SAVE 20 CLS 30 PRINT "Hello" | System should show each line typed, and move down to the empty line beneath. | | | | |
| E-6.1.6.3 | HW S1 + MX RTC | | From the USB BASIC command screen type LIST and hit RETURN | Contains the old show all these lines in the annual state of the lines of | | | | |
| | | | | System should show all three lines in the program and display Ok beneath. | | | | |
| E-6.1.6.4 | HW S1 + MX RTC | | From the USB BASIC command screen type SAVE "TEST01.BAS" and hit RETURN | The cursor should move down one row and display Ok beneath. In the USB stick, there should be a new file named TEST01.BAS. | | | | |
| E-6.1.6.5 | HW S1 + MX RTC | | From the USB BASIC command screen type CAT and hit RETURN | System should display a brief listing of the contents of the folder, and the "TESTO1.BAS" file should be lised among those files. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents. | | | | |
| E-6.1.7.1 | HW S1 + MX RTC | Test LOAD a BASIC file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| E-6.1.7.2 | HW S1 + MX RTC | | From the USB BASIC command screen type LIST and hit RETURN | System should display NO PROGRAM LINES with Ok beneath. | | | | |
| E-6.1.7.3 | HW S1 + MX RTC | | From the USB BASIC command screen type LOAD "TEST01.BAS" and hit RETURN | System should display Ok beneath. | | | | |
| E-6.1.7.4 | HW S1 + MX RTC | | From the USB BASIC command screen type LIST and hit RETURN | System should show all three lines in the program listed in test E- 6.1.6.2 and display Ok beneath. | | | | |
| E-6.1.8.1 | HW S1 + MX RTC | Test RUN a BASIC file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| E-6.1.8.2 | HW S1 + MX RTC | | From the USB BASIC command screen type RUN "TEST01.BAS" and hit RETURN | System should clear the screen, print Hello at the top, and display Ok beneath. | | | | |
| E-6.1.9.1 | HW S1 + MX RTC | | From the USB BASIC command screen type DEL "TEST01.BAS" and hit RETURN | System should display Ok beneath. | | | | |
| E-6.1.9.2 | HW S1 + MX RTC | | From the USB BASIC command screen type CAT and hit RETURN | System should display a brief listing of the contents of the folder, and the "TESTO1.BAS" file SHOULD NOT be lised among those files. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents. | | | | |
| E-6.1.10.1 | HW S1 + MX RTC | Test SAVE a BIN file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| E-6.1.10.2 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit RETURN after each line: 10 REM Testing SAVE BIN 20 POKE \$8000, 97,98,99,100 30 PRINT "Done" | System should show each line typed, and move down to the empty line beneath. | | | | |
| E-6.1.10.3 | HW S1 + MX RTC | | From the USB BASIC command screen type LIST and hit RETURN | System should show all three lines in the program and display Ok beneath. | | | | |
| E-6.1.10.4 | HW S1 + MX RTC | | From the USB BASIC command screen type RUN and hit RETURN | System should print Done and display Ok beneath the program listing. | | | | |
| E-6.1.10.5 | HW S1 + MX RTC | | From the USB BASIC command screen type CD "/" and hit RETURN | System should display Ok beneath. | | | | |
| E-6.1.10.6 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit RETURN: SAVE "POKE.BIN", \$8000, 4 | System should display Ok beneath. | | | | |
| E-6.1.10.7 | HW S1 + MX RTC | | From the USB BASIC command screen type DIR and hit RETURN | System should display a detailed listing of the contents of the USB stick, and the file named "POKE.BIN" should be listed in the contents. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll past the full list of contents. | | | | |
| E-6.1.11.1 | HW S1 + MX RTC | Test LOAD a BIN file | Power off and then back on the Aquarius, and then hit the RETURN/ENTER key to go to USB BASIC. | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-6.1.11.2 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit RETURN: LOAD "POKE.BIN", \$3242 | System should display abcd in the middle of the screen, with Ok beneath the text you just typed. | | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|------------|--------------------|---------------------|---|--|-----------------------------------|-----------|----------|--|
| E-6.1.12.1 | HW S1 + MX RTC | Test RUN a ROM file | Power off and then back on the Aquarius, and then hit the | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | line with a cursor below. | | | | |
| E-6.1.12.2 | HW S1 + MX RTC | | From the USB BASIC command screen type CD"ROMS" and hit RETURN | The cursor should move down one row and display Ok beneath. | | | | |
| E-6.1.12.3 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should load the SNAFU game ROM and display the SNAFU title | | | | |
| | | | RETURN: RUN "SNAFU.ROM" | screen. | | | | |
| E-6.1.12.4 | HW S1 + MX RTC | | Power off and then back on the Aquarius, and then hit the RETURN/ENTER key to go to USB BASIC. | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-6.1.13.1 | HW S1 + MX RTC | Test DEBUG | From the USB BASIC command screen type DEBUG and hit RETURN | The AQUBUG screen should pop up with white text on a blue background. | | | | |
| E-6.1.13.2 | HW S1 + MX RTC | | On the AQUBUG screen type the letter Q | System should return to the USB BASIC command screen, showing the DEBUG command with Ok beneath. | | | | |
| E-6.1.14.1 | HW S1 + MX RTC | Test HFX\$ | From the USB BASIC command screen type the code below and hit | System should display 3000 on the next line with Ok beneath. | | | | |
| | | | RETURN: PRINT HEX\$(12288) | | | | | |
| E-6.1.14.2 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should display FF85 on the next line with Ok beneath. | | | | |
| | | | RETURN: PRINT HEX\$(-123) | | | | | |
| E-6.1.14.3 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should display FFFF on the next line with Ok beneath. | | | | |
| | | | RETURN: PRINT HEX\$(65535) | | | | | |
| E-6.1.15 | HW S1 + MX RTC | Test JOY | From the USB BASIC command screen type the code below and try to | System should display 64 on the next line with Ok beneath. If you | | | | |
| | | | type RETURN and the 1 key at about the same time (maybe a slight | weren't able to get it to work exactly right, a 0 might be displayed | | | | |
| | | | delay before the 1 key): PRINT JOY(0) | instead of the 64. Try a couple of times to get it to work, if you can. | | | | |
| E-6.1.16 | HW S1 + MX RTC | Test IN | From the USB BASIC command screen type the code below and hit | System should display 247 on the next line with Ok beneath. | | | | |
| | | | RETURN: PRINT IN (\$FF) | | | | | |
| E-6.1.17.1 | HW S1 + MX RTC | Test PSG | From the USB BASIC command screen type the code below and hit | System should play a Db4 tone continuously. | | | | |
| | | | RETURN: PSG 8,15,0,148,1,1,7,56 | | | | | |
| E-6.1.17.2 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should stop playing the tone. | | | | |
| | | | RETURN: PSG 8,0,7,0 | | | | | |
| E-6.1.18.1 | HW S1 + MX RTC | Test OUT | From the USB BASIC command screen type the code below and hit | System should play a Db4 tone continuously and print Ok beneath. | | | | \vdash |
| | | | RETURN: PSG 8,15,0,148,1,1,7,56 | | | | | |
| E-6.1.18.2 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should print Ok after each RETURN, and then should stop | | | | |
| | | | RETURN after each line: | playing the tone after the second. | | | | |
| | | | OUT 247,8 OUT \$F6,0 | | | | | |
| E-6.1.19.1 | HW S1 + MX RTC | Test FDIT | Power off and then back on the Aquarius, and then hit the | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next | | | | \vdash |
| | HW S1 + MX RTC | | RETURN/ENTER key to go to USB BASIC. | line with a cursor below. | | | | |
| E-6.1.19.2 | HW SI + IVIX RTC | | From the USB BASIC command screen type the code below and hit RFTURN: | System should show each line typed, and move down to the empty line beneath. | | | | |
| | | | 10 REM Testing EDIT | | | | | |
| E-6.1.19.3 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should list the previously entered line 10 with a blue cursor | | | | |
| | | | RETURN: EDIT 10 | and white text positioned over the R in the REM command. | | | | |
| E-6.1.19.4 | HW S1 + MX RTC | | Within the line 10 edit with the cursor on the R of REM, press the | System should display line 10 with a SPACE between the 10 and the | | | | |
| | | | SPACE bar to insert a space between the line number 10 and the REM statement. | REM command. | | | | |
| E-6.1.19.5 | HW S1 + MX RTC | | Within the line 10 edit with the cursor on the R of REM, CTRL + / | System should list the previously entered line 10 with a blue cursor | | | | |
| | | | eleven times so the cursor is on top of the SPACE after the word | and white text positioned over the SPACE after the word Testing. | | | | |
| E-6.1.19.6 | HW S1 + MX RTC | | Testing. Within the line 10 edit with the cursor on the SPACE between the | System should list the previously entered line 10 with a blue cursor | | | | |
| c-0.1.13.p | 1144 2T + IAIV KIC | | word Testing and EDIT, press the DELETE/BACKSPACE key three times | and white text positioned over the SPACE before the word EDIT. | | | | |
| | | | to delete the letters "ing" at the end of the word Testing. | | | | | |
| E-6.1.19.7 | HW S1 + MX RTC | | Within the line 10 edit with the cursor on the SPACE between the | The cursor should go to the line beneath line 10, and should NOT | | | | |
| | | | word Test and EDIT, press CTRL + P eight times so the cursor is over | display Ok beneath. | | | | / |
| | | | the letter R in REM, and then hit RETURN/ENTER. | | | | | |
| E-6.1.19.8 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should display a blank line, then list line 10 again, with Ok | | | | \vdash |
| | | | RETURN: | beneath. | | | | |
| | | I | LIST 10 | | | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|------------|----------------|---------------|--|---|-----------------------------------|-----------|----------|-----------|
| E-6.1.20.1 | HW S1 + MX RTC | Test LOCATE | From the USB BASIC command screen type the code below and hit | System should show each line typed, and move down to the empty | | | | |
| | | | RETURN after each line: | line beneath. | | | | |
| | | | 10 CLS | | | | | |
| | | | 20 LOCATE 20,12 | | | | | |
| | | | 30 PRINT CHR\$(KEY(0)) | | | | | L |
| E-6.1.20.2 | HW S1 + MX RTC | | From the USB BASIC command screen type RUN and hit RETURN | System should move the cursor to the middle of the screen. | | | | |
| | | | | | | | | L |
| E-6.1.20.3 | HW S1 + MX RTC | | With the cursor in the middle of the screen, press the G key. | System should display a "g" in the middle of the screen, then go to the | | | | |
| | | | | next line and print Ok beneath. | | | | |
| E-6.1.20.4 | HW S1 + MX RTC | | Power off and then back on the Aquarius, and then hit the | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | line with a cursor below. | | | | <u> </u> |
| E-6.1.21.1 | HW S1 + MX RTC | Test CTRL + C | Power off and then back on the Aquarius, Do NOT hit RETURN. Stay | The "Aquarius MX USB BASIC v1.3" screen should be displayed. There | | | | |
| | | | on the AquaLite menu. | should NOT be an option near the bottom that says " <ctrl+c> Warm</ctrl+c> | | | | |
| | | | | Start" | | | | <u> </u> |
| E-6.1.21.2 | HW S1 + MX RTC | | Hit the RETURN/ENTER key to go to USB BASIC. | The "USB BASIC v1.3" should be shown, followed by "Ok" on the next | | | | |
| | | | | line with a cursor below. | | | | <u> </u> |
| E-6.1.21.3 | HW S1 + MX RTC | | Press the RST (reset) key on the Aquarius. Do NOT hit RETURN. Stay | The "Aquarius MX USB BASIC v1.3" screen should be displayed. There | | | | |
| | | | on the AquaLite menu. | SHOULD be an option near the bottom that says " <ctrl+c> Warm</ctrl+c> | | | | |
| | | | | Start" | | | | <u> </u> |
| E-6.1.21.4 | HW S1 + MX RTC | | Press CTRL + C. | A blank screen with "Break", followed by "Ok" on the next line with a | | | | |
| | | | | cursor below. | | | | <u> </u> |
| | | | PLEASE CONTINUE | EVEN IF ALL TESTS IN THIS SECTION DID NOT PAS | S. | | | |

| T NI- | | | | | | | | |
|-----------|--------------------|--------------------------|---|--|-----------------------------------|-----------|----------|-----------|
| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
| E-6.2.0 | HW S1 + MX RTC | Test NEW commands | | | | | | |
| E-6.2.1.1 | HW S1 + MX RTC | Test POKE auto-increment | Power off and then back on the Aquarius, and then hit the | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next | | | | 1 |
| | | | RETURN/ENTER key to go to USB BASIC. | line with a cursor below. | | | | |
| E-6.2.1.2 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit | The screen should print abcd in a row towards the middle bottom of | | | | ı l |
| | | | RETURN: | the screen. | | | | ı l |
| | | | POKE 12945,97,98,99,100 | | | | | |
| E-6.2.2.1 | HW S1 + MX RTC | Test POKE range | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok. | | | | |
| E-6.2.2.2 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit | The screen should print aaaaaaaaa (nine letter a's) in a row towards | | | | |
| | | | RETURN: | the middle bottom of the screen. | | | | ı l |
| | | | POKE \$3291 TO \$3299,97 | | | | | ı l |
| E-6.2.3.1 | HW S1 + MX RTC | Test POKE step | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok. | | | | |
| E-6.2.3.2 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit | The screen should print aaa (three letter a's) in a downward line at the | | | | |
| | | | RETURN: | middle bottom of the screen. | | | | ı l |
| | | | POKE \$3291,97,STEP 40,97,STEP 40,97 | | | | | ı l |
| E-6.2.4.1 | HW S1 + MX RTC | Test POKE strings | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok. | | | | |
| E-6.2.4.2 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit | The screen should print the words Hubba Bubba stacked on top of | | | | |
| - | | | RETURN: | each other at the middle bottom of the screen. | | | | 1 |
| | | | POKE \$3291, "Hubba", STEP 40, "Bubba" | | | | | ı l |
| E-6.2.5.1 | HW S1 + MX RTC | Test COPY | Power off and then back on the Aquarius, and then hit the | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | line with a cursor below. | | | | ı l |
| E-6.2.5.2 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit | The text at the top of the screen ("USB BASIC v1.3" should be | | | | í |
| | | | RETURN: | duplicated in the middle of the screen, with the Ok beneath the COPY | | | | 1 |
| | | | COPY \$3000,\$3000+440,120 | command near the top. | | | | ı l |
| E-6.2.6.1 | HW S1 + MX RTC | Test ATN | Power off and then back on the Aquarius, and then hit the | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next | | | | í |
| | | | RETURN/ENTER key to go to USB BASIC. | line with a cursor below. | | | | |
| E-6.2.6.2 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should display .785398 on the next line with Ok beneath. | | | | 1 |
| | | | RETURN: | | | | | 1 |
| | | | PRINT ATN(1) | | | | | |
| E-6.2.7.1 | HW S1 + MX RTC | Test DEC | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | 1 |
| E-6.2.7.2 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should display 22015 on the next line with Ok beneath. | | | | |
| | | | RETURN: | | | | | ı |
| | | | PRINT DEC("55FF") | | | | | 1 |
| E-6.2.8.1 | HW S1 + MX RTC | Test DEEK | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | 1 |
| E-6.2.8.2 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should display 6B4F on the next line with Ok beneath. (\$4F is | + | | | |
| L-0.2.0.2 | 1144 21 + IVIN KIC | | RETURN: | the "O" character and \$6B is the "k" character from the top left of the | | | | ı |
| | | | PRINT HEX\$ (DEEK (12288+41)) | screen.) | | | | , , |
| E-6.2.9.1 | HW S1 + MX RTC | Test DOKE | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-6.2.9.2 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should display Hi at the top left of the screen and show Ok | | i | | |
| - 0.2.3.2 | 52 - 1151 1110 | | RETURN: | beneath the DOKE command line. (\$48 is the "H" character and \$69 is | | | | , J |
| | | | DOKE 12288+41,\$6948 | the "i" character.) | | | | , I |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|-------------|------------------|------------------|--|---|-----------------------------------|-----------|----------|-----------|
| E-6.2.10.1 | HW S1 + MX RTC | Test KEY | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| | | | | | | | | |
| E-6.2.10.2 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should show each line typed, and move down to the empty | | | | |
| | | | RETURN after each line: 10 CLS 42 | line beneath. | | | | |
| | | | 20 LOCATE 20,12 | | | | | |
| | | | 30 PRINT CHR\$(KEY(0)) | | | | | ļ l |
| E-6.2.10.3 | HW S1 + MX RTC | | From the USB BASIC command screen type RUN and hit RETURN | System should clear the screen to GREEN letters on a PURPLE | | | | |
| | | | | background and move the GREEN cursor to the middle of the screen, | | | | |
| | | | | waiting for input. | | | | |
| E-6.2.10.4 | HW S1 + MX RTC | | With the cursor in the middle of the screen, press the M key (without | System should display a "m" in the middle of the screen, then go to the next line and print Ok beneath. | | | | |
| E-6.2.11.1 | HW S1 + MX RTC | Test SDTM | the SHIFT key pressed). From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| L 0.2.11.1 | TIW SI TIWATITE | resessivi | Trom the 636 BASIC command screen type 626 and the Revolution | System should clear the screen and show ok . | | | | |
| E-6.2.11.2 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should display Ok beneath. | | | | † |
| | | | RETURN, replacing "YYMMDDHHMMSS" with the current DateTime | | | | | ļ l |
| | | | settings: | | | | | |
| 5 6 2 4 4 2 | | | SDTM "YYMMDDHHMMSS" | | | | | ļ! |
| E-6.2.11.3 | HW S1 + MX RTC | | Power off and then back on the Aquarius. | The "Aquarius MX USB BASIC v1.3" screen should be displayed with the correct date and time shown at the bottom of the screen, with | | | 1 | |
| | | | | seconds ticking by. | | | | |
| E-6.2.12.1 | HW S1 + MX RTC | Test DTM\$ | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | † |
| | | | | | | | | |
| E-6.2.12.2 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should display a string with the current date and time, | | | | l |
| | | | RETURN: | formatted YYMMDDHHMMSSCC, with Ok beneath. | | | | ļ l |
| E-6.2.12.3 | HW S1 + MX RTC | | PRINT DTM\$(0) | Control of all all and a section with the account data and all and | | | | ļ |
| E-0.2.12.3 | HW SI + IVIX KIC | | From the USB BASIC command screen type the code below and hit RETURN: | System should display a string with the current date and time, formatted YYYY-MM-DD HH:MM:SS, with Ok beneath. Note that the | | | | |
| | | | PRINT DTM\$(1) | Century is assumed to be 20, and the hours are in 24 hour format. | | | | |
| | | | | , | | | | |
| E-6.2.12.4 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should display a string with the current date, formatted YYYY- | | | | 1 |
| | | | RETURN: | MM-DD, with Ok beneath. Note that the Century is assumed to be 20. | | | | |
| E-6.2.12.5 | HW S1 + MX RTC | | PRINT LEFT\$ (DTM\$ (1),10) From the USB BASIC command screen type the code below and hit | System should display a string with the current time, formatted | | | | |
| L-0.2.12.3 | TIW 31 + WIX RTC | | RETURN: | HH:MM:SS, with Ok beneath. Note that the hours are in 24 hour | | | | |
| | | | PRINT RIGHT(DTM\$(1),8)) | format. | | | | |
| E-6.2.13.1 | HW S1 + MX RTC | Test VER | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | 1 |
| | | | | | | | | |
| E-6.2.13.2 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit RETURN: | System should display 0103, with Ok beneath. | | | | |
| | | | PRINT HEX\$ (VER(0)) | | | | | |
| E-6.2.13.3 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should display 1, with Ok beneath. | | | | † |
| | | | RETURN: | | | | | |
| | | | PRINT VAL(LEFT\$(HEX\$(VER(0)),2)) | | | | | |
| E-6.2.13.4 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should display 3, with Ok beneath. | | | | |
| | | | RETURN: PRINT VAL(RIGHT\$(HEX\$(VER(0)),2)) | | | | | |
| E-6.2.14.1 | HW S1 + MX RTC | Test DEF FN / FN | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | 1 | | \vdash |
| | | | | | | | 1 | |
| E-6.2.14.2 | HW S1 + MX RTC | | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| | | | | | | ļ | | <u> </u> |
| E-6.2.14.3 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should show each line typed, and move down to the empty | | | 1 | |
| | | | RETURN after each line: 10 DEF FN A(X) = X+7 | line beneath. | | | | |
| | | | 20 PRINT FN A(9) | | | | | |
| | | | 30 PRINT FN A(20) | | | | | |
| E-6.2.14.4 | HW S1 + MX RTC | | From the USB BASIC command screen type RUN and hit RETURN | System should print 16 on one line, 27 beneath it, with Ok beneath the | e | | | |
| | | | | 27. | | <u> </u> | | <u> </u> |
| E-6.2.14.5 | HW S1 + MX RTC | | From the USB BASIC command screen type the code below and hit | System should print 14, with Ok beneath. | | | | |
| | | | RETURN: PRINT FN A(7) | | | | | |
| | 1 | l . | | I . | | 1 | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|------------|----------------|------------------|--|--|-----------------------------------|-----------|----------|-----------|
| E-6.2.15.1 | AL S2 + MX | Test & Operator | Power off and then back on the Aquarius, and then hit the | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | line with a cursor below. | | | | |
| E-6.2.15.2 | AL S2 + MX | | From the USB BASIC command screen type the code below and hit | System should show each line typed, and move down to the empty | | | | |
| | | | RETURN after each line: 10 AS="ABCDEFG" 20 COPY DEEK (&AS+2),\$3291,PEEK (&AS) 30 PRINT "A\$ length =" + STR\$(PEEK (&A\$)) | line beneath. | | | | |
| E-6.2.15.3 | AL S2 + MX | | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-6.2.15.4 | AL S2 + MX | | From the USB BASIC command screen type RUN and hit RETURN | System should print A\$ length = 7 with Ok beneath, and should print ABCDEFG near the middle bottom of the screen. | | | | |
| E-6.2.16 | HW S1 + MX RTC | TESTING COMPLETE | Power off and then back on the Aquarius, and then hit the RETURN/ENTER key to go to USB BASIC. | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| | | | | TESTING IS COMPLETE | | | | |



| Alpha Test Plan | Tester Name: | |
|-----------------|------------------------|----------------------------------|
| USB BASIC v1.3 | Date Completed: | |
| E7 | Environment(s) Tested: | Hardware S1 + Aquarius MX NO RTC |

Setup

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|---------|----------------|-------------------------|--|---|------------------------------------|-----------|----------|-----------|
| E-7.0.0 | HW S1 + NO RTC | Setup Hardware MX + RTC | | | | | | |
| E-7.0.1 | HW S1 + NO RTC | | Download & update MX EPROM to v1.3 (64k) | MX ROM is updated to v1.3 | | | | |
| E-7.0.2 | HW S1 + NO RTC | | Install MX unit and boot Aquarius. | The "Aquarius MX USB BASIC v1.3" screen should be displayed. | | | | |
| E-7.0.3 | HW S1 + NO RTC | | Press the A key within the emulator. | The "About USB BASIC" screen should be displayed. Release Date | | | | |
| | | | | should show "Alpha 2023-05-07". | | | | |
| E-7.0.4 | HW S1 + NO RTC | | Press any key to exit the About screen. | The "Aquarius MX USB BASIC v1.3" screen should be displayed. | | | | |
| E-7.0.5 | HW S1 + NO RTC | | Press RETURN/ENTER key to go to the USB BASIC command screen. | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next | | | | |
| | | | Note: This screen is the starting point for most tests in this plan. | line with a cursor below. | | | | |
| | | | | | | | | |
| | | DO NO | T CONTINUE IF ANY TESTS IN THIS SECTION DID I | NOT PASS! CONTACT THE TESTING COORDINATOR | R, Sean Harrington sph@1stage.com. | | | |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|-----------|----------------|----------------------|---|---|-----------------------------------|-----------|----------|-----------|
| E-7.1.0 | HW S1 + NO RTC | Test legacy commands | | | | | | |
| E-7.1.1.1 | HW S1 + NO RTC | Test CALL xx | From the USB BASIC command screen type CALL \$8000 and hit RETURN | The cursor should move down one row, and the system should freeze. | | | | |
| E-7.1.1.2 | HW S1 + NO RTC | | | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-7.1.1.3 | HW S1 + NO RTC | | From the USB BASIC command screen type CALL -32768 and hit RETURN | The cursor should move down one row, and the system should freeze. | | | | |
| E-7.1.1.4 | HW S1 + NO RTC | | · · · | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-7.1.1.5 | HW S1 + NO RTC | | From the USB BASIC command screen type CALL 32768 (NO minus sign!) and hit RETURN | The cursor should move down one row, and the system should freeze. | | | | |
| E-7.1.1.6 | HW S1 + NO RTC | | | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-7.1.2 | HW S1 + NO RTC | Test CAT | " | System should display a brief listing of the contents of the USB stick, followed by Ok beneath. Note that the contents can vary from system to system. | | | | |
| E-7.1.3.1 | HW S1 + NO RTC | Test CD | ** | The cursor should move down one row, and a / character should be displayed, followed by Ok beneath. | | | | |
| E-7.1.3.2 | HW S1 + NO RTC | | From the USB BASIC command screen type CD"ROMS" and hit RETURN | The cursor should move down one row and display Ok beneath. | | | | |
| E-7.1.4 | HW S1 + NO RTC | Test DIR | | System should display a detailed listing of the contents of the USB stick, followed by Ok beneath. Note that the RETURN/ENTER key may have to be pressed one or more times to scroll through the full list of contents. | | | | |
| E-7.1.5.1 | HW S1 + NO RTC | Test CLS | ** | System should clear the screen and show Ok in black letters on a cyan background. | | | | |
| E-7.1.5.2 | HW S1 + NO RTC | | ** | System should clear the screen and show Ok in black letters on a grey background. | | | | |
| E-7.1.5.3 | HW S1 + NO RTC | | · · · · · · · · · · · · · · · · · · · | System should clear the screen and show Ok in white letters on a dark green background. | | | | |
| E-7.1.5.4 | HW S1 + NO RTC | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | System should clear the screen and show Ok in black letters on a cyan background. | | | | |

| E-7.1.6.1 | | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|------------|-----------------|------------------------|---|--|-----------------------------------|-----------|----------|-----------|
| | HW S1 + NO RTC | Test SAVE a BASIC file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| | | | | | | | | |
| E-7.1.6.2 | HW S1 + NO RTC | | From the USB BASIC command screen type the code below and hit | System should show each line typed, and move down to the empty | | | | |
| | | | RETURN after each line: 10 REM Testing SAVE | line beneath. | | | | |
| | | | 20 CLS | | | | | |
| | | | 30 PRINT "Hello" | | | | | |
| E-7.1.6.3 | HW S1 + NO RTC | | From the USB BASIC command screen type LIST and hit RETURN | System should show all three lines in the program and display Ok | | | | |
| | | | | beneath. | | | | |
| E-7.1.6.4 | HW S1 + NO RTC | | From the USB BASIC command screen type SAVE "TEST01.BAS" and hit RETURN | The cursor should move down one row and display Ok beneath. In the USB stick, there should be a new file named TEST01.BAS. | : | | | |
| | | | and nit Ke i OKN | OSB Stick, there should be a new file flamed TESTOT.BAS. | | | | |
| E-7.1.6.5 | HW S1 + NO RTC | | From the USB BASIC command screen type CAT and hit RETURN | System should display a brief listing of the contents of the folder, and | | | | |
| | | | | the "TEST01.BAS" file should be lised among those files. Note that the | | | | |
| | | | | RETURN/ENTER key may have to be pressed one or more times to | | | | |
| | | | | scroll through the full list of contents. | | | | |
| E-7.1.7.1 | HW S1 + NO RTC | Test LOAD a BASIC file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| | | | · · | | | | | |
| E-7.1.7.2 | HW S1 + NO RTC | | From the USB BASIC command screen type LIST and hit RETURN | System should display NO PROGRAM LINES with Ok beneath. | | | | |
| E-7.1.7.3 | HW S1 + NO RTC | | Form the UCD DACIC commend on the Ton Daniel Dacie | Contains about distriction Of the seconds | | | | |
| E-7.1.7.3 | HW SI + NO RIC | | From the USB BASIC command screen type LOAD "TEST01.BAS" and hit RETURN | System should display Ok beneath. | | | | |
| E-7.1.7.4 | HW S1 + NO RTC | | From the USB BASIC command screen type LIST and hit RETURN | System should show all three lines in the program listed in test E- | | | | |
| | | | | 7.1.6.2 and display Ok beneath. | | | | |
| E-7.1.8.1 | HW S1 + NO RTC | Test RUN a BASIC file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| E-7.1.8.2 | HW S1 + NO RTC | | 5 1 150 0 150 | | | | | |
| E-7.1.8.2 | HW SI + NO RIC | | From the USB BASIC command screen type RUN "TEST01.BAS" and hit RETURN | System should clear the screen, print Hello at the top, and display Ok beneath. | | | | |
| E-7.1.9.1 | HW S1 + NO RTC | Test DEI | From the USB BASIC command screen type DEL "TEST01.BAS" | System should display Ok beneath. | | | | |
| | | | and hit RETURN | | | | | |
| E-7.1.9.2 | HW S1 + NO RTC | | From the USB BASIC command screen type CAT and hit RETURN | System should display a brief listing of the contents of the folder, and | | | | |
| | | | | the "TEST01.BAS" file SHOULD NOT be lised among those files. Note | | | | |
| | | | | that the RETURN/ENTER key may have to be pressed one or more | | | | |
| | | | | times to scroll through the full list of contents. | | | | |
| E-7.1.10.1 | HW S1 + NO RTC | Test SAVE a BIN file | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| | | | | | | | | |
| E-7.1.10.2 | HW S1 + NO RTC | | From the USB BASIC command screen type the code below and hit | System should show each line typed, and move down to the empty | | | | |
| | | | RETURN after each line: 10 REM Testing SAVE BIN | line beneath. | | | | |
| | | | 20 POKE \$8000,97,98,99,100 | | | | | |
| | | | 30 PRINT "Done" | | | | | |
| E-7.1.10.3 | HW S1 + NO RTC | | From the USB BASIC command screen type LIST and hit RETURN | System should show all three lines in the program and display Ok | | | | |
| F 7 1 40 4 | HW 61 - NO 570 | | From the LICE DACIC command course to a pure and bit personal | beneath. | | | | |
| E-7.1.10.4 | HW S1 + NO RTC | | From the USB BASIC command screen type RUN and hit RETURN | System should print Done and display Ok beneath the program listing. | | | | |
| E-7.1.10.5 | HW S1 + NO RTC | | From the USB BASIC command screen type CD "/" and hit RETURN | System should display Ok beneath. | | | | |
| | | | ,, , | | | | | |
| E-7.1.10.6 | HW S1 + NO RTC | | From the USB BASIC command screen type the code below and hit | System should display Ok beneath. | | | | |
| | | | RETURN: SAVE "POKE.BIN", \$8000, 4 | | | | | |
| E-7.1.10.7 | HW S1 + NO RTC | | From the USB BASIC command screen type DIR and hit RETURN | System should display a detailed listing of the contents of the USB | | | | |
| _ /.1.20./ | 51 . 140 1.10 | | | stick, and the file named "POKE.BIN" should be listed in the contents. | | | | |
| | | | | Note that the RETURN/ENTER key may have to be pressed one or | | | | |
| | | | | more times to scroll past the full list of contents. | | | | |
| F 7 1 11 1 | LIM S1 - NO STC | Took I OAD a DIN file | Dougs off and then heat on the Associate and then hit the | The "HISD DASIC of 2" on the next line followed by "Old on the next | | | | 1 |
| E-7.1.11.1 | UM 21 + NO KLC | Test LOAD a BIN file | Power off and then back on the Aquarius, and then hit the RETURN/ENTER key to go to USB BASIC. | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-7.1.11.2 | HW S1 + NO RTC | | From the USB BASIC command screen type the code below and hit | System should display abcd in the middle of the screen, with Ok | | | | |
| | | | RETURN: | beneath the text you just typed. | | | | |
| | | | LOAD "POKE.BIN", \$3242 | 1 | | 1 | | 1 |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|------------|----------------|---------------------|--|--|-----------------------------------|-----------|----------|--|
| E-7.1.12.1 | | Test RUN a ROM file | Power off and then back on the Aquarius, and then hit the | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next | | ì | | |
| | | | RETURN/ENTER key to go to USB BASIC. | line with a cursor below. | | | | |
| | HW S1 + NO RTC | | From the USB BASIC command screen type CD"ROMS" and hit RETURN | The cursor should move down one row and display Ok beneath. | | | | |
| E-7.1.12.3 | HW S1 + NO RTC | | From the USB BASIC command screen type the code below and hit RETURN: | System should load the SNAFU game ROM and display the SNAFU title screen. | | | | |
| | | | RUN "SNAFU.ROM" | screen. | | | | |
| E-7.1.12.4 | HW S1 + NO RTC | | Power off and then back on the Aquarius, and then hit the RETURN/ENTER key to go to USB BASIC. | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-7.1.13.1 | HW S1 + NO RTC | Test DEBUG | From the USB BASIC command screen type DEBUG and hit RETURN | The AQUBUG screen should pop up with white text on a blue background. | | | | |
| E-7.1.13.2 | HW S1 + NO RTC | | On the AQUBUG screen type the letter Q | System should return to the USB BASIC command screen, showing the DEBUG command with Ok beneath. | | | | |
| E-7.1.14.1 | HW S1 + NO RTC | Test HEX\$ | From the USB BASIC command screen type the code below and hit | System should display 3000 on the next line with Ok beneath. | | | | |
| | | | RETURN: PRINT HEX\$(12288) | | | | | |
| E-7.1.14.2 | HW S1 + NO RTC | | From the USB BASIC command screen type the code below and hit | System should display FF85 on the next line with Ok beneath. | | | | |
| | | | RETURN: PRINT HEX\$(-123) | | | | | |
| E-7.1.14.3 | HW S1 + NO RTC | | From the USB BASIC command screen type the code below and hit | System should display FFFF on the next line with Ok beneath. | | | | |
| | | | RETURN: PRINT HEX\$(65535) | | | | | |
| E-7.1.15 | HW S1 + NO RTC | Test JOY | From the USB BASIC command screen type the code below and try to | System should display 64 on the next line with Ok beneath. If you | | Ì | | |
| | | | type RETURN and the 1 key at about the same time (maybe a slight delay before the 1 key): | weren't able to get it to work exactly right, a 0 might be displayed instead of the 64. Try a couple of times to get it to work, if you can. | | | | |
| | | | PRINT JOY(0) | instead of the 64. Try a couple of times to get it to work, if you can. | | | | |
| E-7.1.16 | HW S1 + NO RTC | Test IN | From the USB BASIC command screen type the code below and hit | System should display 247 on the next line with Ok beneath. | | | | |
| | | | RETURN: PRINT IN(\$FF) | | | | | |
| E-7.1.17.1 | HW S1 + NO RTC | Test PSG | From the USB BASIC command screen type the code below and hit | System should play a Db4 tone continuously. | | | | |
| | | | RETURN: PSG 8,15,0,148,1,1,7,56 | | | | | |
| E-7.1.17.2 | HW S1 + NO RTC | 1 | From the USB BASIC command screen type the code below and hit | System should stop playing the tone. | | | | |
| | | | RETURN: | | | | | |
| E-7.1.18.1 | HW S1 + NO RTC | Test OUT | PSG 8, 0, 7, 0 From the USB BASIC command screen type the code below and hit | System should play a Db4 tone continuously and print Ok beneath. | | | | |
| | | | RETURN: PSG 8,15,0,148,1,1,7,56 | | | | | |
| E-7.1.18.2 | HW S1 + NO RTC | | From the USB BASIC command screen type the code below and hit | System should print Ok after each RETURN, and then should stop | | | | |
| | | | RETURN after each line: OUT 247,8 | playing the tone after the second. | | | | |
| | | | OUT 247,8 OUT \$F6,0 | | | | | |
| E-7.1.19.1 | HW S1 + NO RTC | Test EDIT | Power off and then back on the Aquarius, and then hit the RETURN/ENTER key to go to USB BASIC. | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-7.1.19.2 | HW S1 + NO RTC | 1 | From the USB BASIC command screen type the code below and hit | System should show each line typed, and move down to the empty | | i | | T |
| | | | RETURN: 10 REM Testing EDIT | line beneath. | | | | |
| E-7.1.19.3 | HW S1 + NO RTC | 1 | From the USB BASIC command screen type the code below and hit | System should list the previously entered line 10 with a blue cursor | | | | |
| ļ | | | RETURN: EDIT 10 | and white text positioned over the R in the REM command. | | | | 1 |
| E-7.1.19.4 | HW S1 + NO RTC | 1 | Within the line 10 edit with the cursor on the R of REM, press the | System should display line 10 with a SPACE between the 10 and the | | | | |
| | | | SPACE bar to insert a space between the line number 10 and the REM statement. | REM command. | | | | |
| E-7.1.19.5 | HW S1 + NO RTC | 1 | Within the line 10 edit with the cursor on the R of REM, CTRL + / | System should list the previously entered line 10 with a blue cursor | | | | |
| | | | eleven times so the cursor is on top of the SPACE after the word | and white text positioned over the SPACE after the word Testing. | | | | |
| E-7.1.19.6 | HW S1 + NO RTC | | Testing. Within the line 10 edit with the cursor on the SPACE between the | System should list the previously entered line 10 with a blue cursor | | | | |
| | | | word Testing and EDIT, press the DELETE/BACKSPACE key three times | and white text positioned over the SPACE before the word EDIT. | | | | |
| | | | to delete the letters "ing" at the end of the word Testing. | | | | | |
| E-7.1.19.7 | HW S1 + NO RTC | 1 | Within the line 10 edit with the cursor on the SPACE between the | The cursor should go to the line beneath line 10, and should NOT | | | | |
| | 1 | | word Test and EDIT, press CTRL + P eight times so the cursor is over | display Ok beneath. | | | | |
| | | | the letter R in REM, and then hit RETURN/ENTER. | | | | | |
| E-7.1.19.8 | HW S1 + NO RTC | 1 | From the USB BASIC command screen type the code below and hit | System should display a blank line, then list line 10 again, with Ok | | Ì | | |
| | | | RETURN: | beneath. | | | | 1 |

| Test No | Environment | Description | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|---|----------------|---------------|---|---|-----------------------------------|-----------|----------|-----------|
| E-7.1.20.1 | HW S1 + NO RTC | Test LOCATE | From the USB BASIC command screen type the code below and hit RETURN after each line: 10 CLS 20 LOCATE 20,12 30 PRINT CHR\$(KEY(0)) | System should show each line typed, and move down to the empty line beneath. | | | | |
| E-7.1.20.2 | HW S1 + NO RTC | | From the USB BASIC command screen type RUN and hit RETURN | System should move the cursor to the middle of the screen. | | | | |
| E-7.1.20.3 | HW S1 + NO RTC | | With the cursor in the middle of the screen, press the G key. | System should display a "g" in the middle of the screen, then go to the next line and print Ok beneath. | | | | |
| E-7.1.20.4 | HW S1 + NO RTC | | Power off and then back on the Aquarius, and then hit the RETURN/ENTER key to go to USB BASIC. | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with a cursor below. | | | | |
| E-7.1.21.1 | HW S1 + NO RTC | Test CTRL + C | Power off and then back on the Aquarius, Do NOT hit RETURN. Stay on the AquaLite menu. | The "Aquarius MX USB BASIC v1.3" screen should be displayed. There should NOT be an option near the bottom that says " <ctrl+c> Warm Start"</ctrl+c> | | | | |
| E-7.1.21.2 | HW S1 + NO RTC | | Hit the RETURN/ENTER key to go to USB BASIC. | The "USB BASIC v1.3" should be shown, followed by "Ok" on the next line with a cursor below. | | | | |
| E-7.1.21.3 | HW S1 + NO RTC | | Press the RST (reset) key on the Aquarius. Do NOT hit RETURN. Stay on the AquaLite menu. | The "Aquarius MX USB BASIC v1.3" screen should be displayed. There SHOULD be an option near the bottom that says " <ctrl+c> Warm Start"</ctrl+c> | | | | |
| E-7.1.21.4 | HW S1 + NO RTC | | Press CTRL + C. | A blank screen with "Break", followed by "Ok" on the next line with a cursor below. | | | | |
| PLEASE CONTINUE EVEN IF ALL TESTS IN THIS SECTION DID NOT PASS. | | | | | | | | |

| Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|--|--|---|--|---|
| | | | | |
| | | | | |
| then hit the The "USB BASIC v1.3" on the next line, followed by "Ok" on the | next | | | i |
| | | | | <u> </u> |
| · | m of | | | l |
| the screen. | | | | i |
| | | | | |
| LS and hit RETURN System should clear the screen and show Ok. | | | | 1 |
| ne code below and hit The screen should print aaaaaaaaa (nine letter a's) in a row tow | ards | | | |
| the middle bottom of the screen. | | | | i |
| | | | | i |
| LS and hit RETURN System should clear the screen and show Ok. | | | | |
| ne code below and hit The screen should print aaa (three letter a's) in a downward line | at the | | | |
| middle bottom of the screen. | | | | i |
| | | | | i |
| LS and hit RETURN System should clear the screen and show Ok. | | | | |
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| | of | | | i |
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| | | | | i |
| | COPY | | | 1 |
| | | | | i . |
| | next | | | 1 |
| | | | | |
| ne code below and hit System should display .785398 on the next line with Ok beneath | l. | | | i |
| | | | | i |
| | | | | |
| LS and hit RETURN System should clear the screen and show Ok . | | | | 1 |
| e code below and hit System should display 22015 on the next line with Ok beneath. | | | | |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | 1 |
| | | | | i |
| LS and hit RETURN System should clear the screen and show Ok . | | | | |
| , and the second | | | | i |
| e code below and hit System should display 6B4F on the next line with Ok beneath. (S | 4F is | | | |
| | | | | 1 |
| screen.) | | | | 1 |
| | | | | |
| ne code below and hit System should display Hi at the top left of the screen and show | Dk Dk | | | |
| | | | | i |
| ** | | | | 1 |
| C tth C C tth C C C tth C C C | the screen. CLS and hit RETURN System should clear the screen and show Ok. The screen should print aaaaaaaa (nine letter a's) in a row tow the middle bottom of the screen. CLS and hit RETURN System should clear the screen and show Ok. The code below and hit 40,97 CLS and hit RETURN System should print aaa (three letter a's) in a downward line middle bottom of the screen. System should clear the screen and show Ok. The screen should print aaa (three letter a's) in a downward line middle bottom of the screen. System should clear the screen and show Ok. The code below and hit The screen should print the words Hubba Bubba stacked on top each other at the middle bottom of the screen. The "USB BASIC v1.3" on the next line, followed by "Ok" on the riline with a cursor below. The "USB BASIC v1.3" on the next line, followed by "Ok" on the riline with a cursor below. The "USB BASIC v1.3" on the next line, followed by "Ok" on the riline with a cursor below. The "USB BASIC v1.3" on the next line, followed by "Ok" on the riline with a cursor below. System should display .785398 on the next line with Ok beneath the code below and hit System should display 22015 on the next line with Ok beneath. CLS and hit RETURN System should display 22015 on the next line with Ok beneath. (Stem and hit RETURN) System should display 684F on the next line with Ok beneath. (Stem and hit RETURN) System should display 684F on the next line with Ok beneath. (Stem and hit RETURN) System should clear the screen and show Ok. System should clear the screen and show Ok. | the code below and hit The screen should print abcd in a row towards the middle bottom of the screen. CLS and hit RETURN System should clear the screen and show Ok. The code below and hit The screen should print aaaaaaaaa (nine letter a's) in a row towards the middle bottom of the screen. CLS and hit RETURN System should clear the screen and show Ok. The code below and hit The screen should print aaa (three letter a's) in a downward line at the middle bottom of the screen. CLS and hit RETURN System should clear the screen and show Ok. The screen should print the words Hubba Bubba stacked on top of each other at the middle bottom of the screen. The "USB BASIC V.1.3" on the next line, followed by "Ok" on the next line with a cursor below. The text at the top of the screen ("USB BASIC V.1.3" should be duplicated in the middle of the screen, with the Ok beneath the COPY command near the top. In the "USB BASIC V.1.3" on the next line, followed by "Ok" on the next line with a cursor below. The text at the top of the screen, with the Ok beneath the COPY command near the top. In the "USB BASIC V.1.3" on the next line, followed by "Ok" on the next line with a cursor below. The "USB BASIC V.1.3" on the next line, followed by "Ok" on the next line with a cursor below. The code below and hit System should display .785398 on the next line with Ok beneath. CLS and hit RETURN System should clear the screen and show Ok. System should display 22015 on the next line with Ok beneath. CLS and hit RETURN System should display 22015 on the next line with Ok beneath. System should display 684F on the next line with Ok beneath. System should display 684F on the next line with Ok beneath. System should display 684F on the next line with Ok beneath (S4F is the "Character and 568 is the "K" character from the top left of the screen. System should display 684F on the next line with Ok beneath (S4F is the Character and 568 is the "K" character and show Ok beneath the DOKE command line. (S48 is the "H" character and show Ok | The screen should print abcd in a row towards the middle bottom of the screen. CLS and hit RETURN System should clear the screen and show Ok. The screen should print abaaaaaaaa (nine letter a's) in a row towards the middle bottom of the screen. CLS and hit RETURN System should clear the screen and show Ok. The screen should print abaaaaaaaaa (nine letter a's) in a row towards the middle bottom of the screen. CLS and hit RETURN System should clear the screen and show Ok. The screen should print aba (three letter a's) in a downward line at the middle bottom of the screen. CLS and hit RETURN System should clear the screen and show Ok. The screen should print the words Hubba Bubba stacked on top of each other at the middle bottom of the screen. The "USB BASIC V.1.3" on the next line, followed by "Ok" on the next line with a cursor below. The text at the top of the screen ("USB BASIC V.1.3" should be duplicated in the middle of the screen, with the Ok beneath the COPY command near the top. The text at the top of the screen, with the Ok beneath the COPY command near the top. The TUSB BASIC V.1.3" on the next line, followed by "Ok" on the next line with a cursor below. The text at the top of the screen, with the Ok beneath. CLS and hit RETURN System should display .785398 on the next line with Ok beneath. CLS and hit RETURN System should display 22015 on the next line with Ok beneath. CLS and hit RETURN System should display 22015 on the next line with Ok beneath. CLS and hit RETURN System should display 22015 on the next line with Ok beneath. CLS and hit RETURN System should display 684F on the next line with Ok beneath. System should display 684F on the next line with Ok beneath. System should display 684F on the next line with Ok beneath. System should display 684F on the next line with Ok beneath. System should display 684F on the next line with Ok beneath. System should display Hit at the top left of the screen and show Ok beneath the OOK ecommand line. (548 is the "H" character an | The screen should print abcd in a row towards the middle bottom of the screen. CLS and hit RETURN System should clear the screen and show Ok. The screen should print abaaaaaaa (nine letter a's) in a row towards the middle bottom of the screen. CLS and hit RETURN System should clear the screen and show Ok. The screen should print abaaaaaaaa (nine letter a's) in a row towards the middle bottom of the screen. CLS and hit RETURN System should clear the screen and show Ok. The screen should print abaa (three letter a's) in a downward line at the middle bottom of the screen. CLS and hit RETURN System should clear the screen and show Ok. The screen should print the words Hubba Bubba Stacked on top of each other at the middle bottom of the screen. The screen should print the words Hubba Bubba Stacked on top of each other at the middle bottom of the screen. The screen should print the words Hubba Bubba Stacked on top of each other at the middle bottom of the screen. The screen should print the words Hubba Bubba Stacked on top of each other at the middle bottom of the screen. The screen should biba " The screen should print the words Hubba Bubba Stacked on top of each other at the middle bottom of the screen. The screen should biba " The screen should biba Bubba Stacked on top of each other at the middle bottom of the screen. The screen should biba Bubba Stacked on top of each other at the middle bottom of the screen. The screen should biba Bubba Stacked on top of each other each time with a cursor below. The code below and hit the "USB BASIC v1.3" on the next line, followed by "Ok" on the next line with of which each the screen and show Ok. The code below and hit System should display 52015 on the next line with Ok beneath. System should display 52015 on the next line with Ok beneath. System should display 684F on the next line with Ok beneath. System should display 684F on the next line with Ok beneath. System should display 184 the the pole of the screen and show Ok beneath the DOKE command |

| Test No | Environment | | Process | Expected Results | Actual Results ("As Expected" ok) | Pass/Fail | Initials | Date/Time |
|---------------|-----------------|------------------|--|---|-----------------------------------|-----------|----------|-----------|
| E-7.2.10.1 | HW S1 + NO RTC | Test KEY | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-7.2.10.2 | HW S1 + NO RTC | | From the USB BASIC command screen type the code below and hit | System should show each line typed, and move down to the empty | | | | |
| L-7.2.10.2 | TIW 31 + NO KIC | | RETURN after each line: | line beneath. | | | | |
| | | | 10 CLS 42 | | | | | |
| | | | 20 LOCATE 20,12 30 PRINT CHR\$(KEY(0)) | | | | | |
| E-7.2.10.3 | HW S1 + NO RTC | | | Contain the Idelegation of COSEN Latters on a DUDDLE | | | | |
| E-7.2.10.3 | HW SI + NO RIC | | From the USB BASIC command screen type RUN and hit RETURN | System should clear the screen to GREEN letters on a PURPLE background and move the GREEN cursor to the middle of the screen, | | | | |
| | | | | waiting for input. | | | | |
| E-7.2.10.4 | HW S1 + NO RTC | | With the cursor in the middle of the screen, press the M key (without | System should display a "m" in the middle of the screen, then go to | | | | |
| | | | the SHIFT key pressed). | the next line and print Ok beneath. | | | | |
| E-7.2.11.1 | HW S1 + NO RTC | Test SDTM | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-7.2.11.2 | HW S1 + NO RTC | | From the USB BASIC command screen type the code below and hit | System should display Ok beneath. | | | | |
| | | | RETURN, replacing "YYMMDDHHMMSS" with the current DateTime | | | | | |
| | | | settings: | | | | | |
| E-7.2.11.3 | HW S1 + NO RTC | | SDTM "YYMMDDHHMMSS" Power off and then back on the Aquarius. | The "Aquarius MX USB BASIC v1.3" screen should be displayed with | | | | |
| E-7.2.11.3 | HW SI + NO RIC | | Power off and then back on the Aquarius. | NO DATE AND TIME shown at the bottom of the screen. | | | | |
| | | | | NO DATE AND TIME SHOWN at the sociolity of the selecti. | | | | |
| E-7.2.12.1 | HW S1 + NO RTC | Test DTM\$ | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| | | | | | | | | |
| E-7.2.12.2 | HW S1 + NO RTC | | From the USB BASIC command screen type the code below and hit RETURN: | System should print a blank line with Ok beneath. | | | | |
| | | | PRINT DTM\$(0) | | | | | |
| E-7.2.12.3 | HW S1 + NO RTC | | From the USB BASIC command screen type the code below and hit | System should print a blank line with Ok beneath. | | | | |
| | | | RETURN: | | | | | |
| | | | PRINT DTM\$(1) | | | | | |
| E-7.2.13.1 | HW S1 + NO RTC | Test VER | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| E-7.2.13.2 | HW S1 + NO RTC | | From the USB BASIC command screen type the code below and hit | System should display 0103, with Ok beneath. | | | | |
| C 7.12.125.12 | 51 . 110 1110 | | RETURN: | System should display 6165, with ox benedan. | | | | |
| | | | PRINT HEX\$(VER(0)) | | | | | |
| E-7.2.13.3 | HW S1 + NO RTC | | From the USB BASIC command screen type the code below and hit | System should display 1, with Ok beneath. | | | | |
| | | | RETURN: PRINT VAL(LEFT\$(HEX\$(VER(0)),2)) | | | | | |
| E-7.2.13.4 | HW S1 + NO RTC | | From the USB BASIC command screen type the code below and hit | System should display 3, with Ok beneath. | | | | |
| | | | RETURN: | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | |
| | | | PRINT VAL(RIGHT\$(HEX\$(VER(0)),2)) | | | | | |
| E-7.2.14.1 | HW S1 + NO RTC | Test DEF FN / FN | From the USB BASIC command screen type NEW and hit RETURN | System should display Ok beneath. | | | | |
| E-7.2.14.2 | HW S1 + NO RTC | | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| C / IZ.IZ.II. | 51 - 110 1110 | | Tom the obs broke command streem type obs and meneromy | System should dear the server and show ox . | | | | |
| E-7.2.14.3 | HW S1 + NO RTC | | From the USB BASIC command screen type the code below and hit | System should show each line typed, and move down to the empty | | | | |
| | | | RETURN after each line: 10 DEF FN A(X) = X+7 | line beneath. | | | | |
| | | | 10 DEF FN A(X) = X+7 20 PRINT FN A(9) | | | | | |
| | | | 30 PRINT FN A(20) | | | | | |
| E-7.2.14.4 | HW S1 + NO RTC | | From the USB BASIC command screen type RUN and hit RETURN | System should print 16 on one line, 27 beneath it, with Ok beneath the | 2 | | | |
| | | | | 27. | | | | |
| E-7.2.14.5 | HW S1 + NO RTC | | From the USB BASIC command screen type the code below and hit | System should print 14, with Ok beneath. | | | | |
| | | | RETURN: PRINT FN A(7) | | | | | |
| E-7.2.15.1 | AL S2 + MX | Test & Operator | Power off and then back on the Aquarius, and then hit the | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next | | | | |
| | | | RETURN/ENTER key to go to USB BASIC. | line with a cursor below. | | | | |
| E-7.2.15.2 | AL S2 + MX | | From the USB BASIC command screen type the code below and hit | System should show each line typed, and move down to the empty | | | | |
| | | | RETURN after each line: 10 A\$="ABCDEFG" | line beneath. | | | | |
| | | | 20 COPY DEEK(&A\$+2),\$3291,PEEK(&A\$) | | | | | |
| | <u> </u> | | 30 PRINT "A\$ length =" + STR\$(PEEK(&A\$)) | | | <u> </u> | | <u></u> |
| E-7.2.15.3 | AL S2 + MX | | From the USB BASIC command screen type CLS and hit RETURN | System should clear the screen and show Ok . | | | | |
| | | | | | | | | |
| E-7.2.15.4 | AL S2 + MX | | From the USB BASIC command screen type RUN and hit RETURN | System should print A\$ length = 7 with Ok beneath, and should print ABCDEFG near the middle bottom of the screen. | | | | |
| E-7.2.16 | HW S1 + NO RTC | TESTING COMPLETE | Power off and then back on the Aquarius, and then hit the | The "USB BASIC v1.3" on the next line, followed by "Ok" on the next | | 1 | | 1 |
| L /.L.10 | 51 . 110 1.10 | | RETURN/ENTER key to go to USB BASIC. | line with a cursor below. | | | | |
| | | | , , , | TESTING IS COMPLETE | • | • | | • |