ANRITSU CORPORATION

Bluetooth low energy Measurement Software

Overview

Anritsu maintain a policy of continuous development and enhancement of instrument software. This software release note defines the latest enhancements to the Bluetooth low energy Measurement software package and details the change history of the software.

Change history

Changes in 1.20.010 relative to 1.20.008

1. Addition of support for option MT8852B-37, release for Bluetooth 5.1 Angle of Arrival (AoA) and Angle of Departure (AoD).measurements.

Changes in 1.20.008 relative to 1.20.007

1. For support purposes, downloading and saving of MT8852B internal log files is added to the software.

Changes in 1.20.007 relative to 1.20.006

1. Correction of the Max Drift Result Limit sign in the Tx Testing Window.

Changes in 1.20.006 relative to 1.20.002

1. Addition of the Initial Drift Rate result in both the TX Testing display results and the Script test report.
2. Addition of DUT command format selection for BLE 1Mbps control to either the Bluetooth 5 specification format or to a previous Bluetooth 4 specification format. The new selection is only active if the MT8852B has firmware 5.00.008 or greater, and at least one Bluetooth 5 measurement option (MT8852B-35 or MT8852B-36).
3. Changed the BLE limits sign expressions to comply with the Bluetooth Core specification v5.0.

Changes in 1.20.002 relative to 1.20

1. Addition of Save Data function for the TX results within the TX testing window.
2. The HCI command format for Bluetooth 5 DUT transmitter testing is now set to comply with the Bluetooth 5 specification in all tester firmware versions. The user can select the legacy HCI command format if required.
3. Enhancement to the Script report display to correct a potential screen alignment issue.
4. Correction of Modulation Index results display in the Script report for BLE only MT8852B testers.
5. Improved robustness for the software installation.

Changes in 1.20 relative to 1.16

2. Addition of support for option MT8852B-35, release for Bluetooth low energy 2 Mbps (2LE) measurements.
3. Addition of support for option MT8852B-36, release for Bluetooth low energy Long Range (BLR) measurements.
4. Selection of USBAdaptor to 2-Wire DUT control is now supported
5. Improved robustness for Sensitivity Search Testing.

   Further improved robustness for TX Testing.

Changes in 1.16 relative to 1.12

1. Addition of support for option MT8852B-34, Bluetooth low energy Data Length Extension (DLE) measurement allowing payloads up to 255 bytes.
2. Selection of USB-Adaptor DUT control is now supported
3. Improved robustness for TX Testing.
4. Support for Windows 7 32 and 64 bit systems.

Changes in 1.12 relative to 1.10

1. Improvement of frequency selection for BLE RX and receiver sensitivity testing
2. Improvement for power selection for receiver sensitivity testing when using step values less than 1 dB.
3. Faster response of Abort function

Changes in 1.10 relative to 1.00

1. Addition of receiver sensitivity search
2. PER Integrity test added to script operation
3. Path offset selection added
4. Automated Receiver testing
5. Stop on fail added to TX testing
6. Selection of both HCI RS232 and 2-Wire DUT control are now supported
7. All test conditions within script mode now default to the Bluetooth 4.0 RF test specification
8. BLE packet generator includes an option to turn on dirty or alternating CRC.
9. RX testing default settings changed to be consistent with Receiver Sensitivity test case

Known Limitation in 1.20.010

1. The maximum payload length analysis in the application TX window with Bluetooth 5.1 packets is 254 octets.

Note:

Microsoft .Net framework version 2.0 and National Instruments VISA runtime library are required to operate this software. Unless already installed, the Microsoft .Net Framework and the National Instruments runtime library are provided as part of the software download and on the product CD.