Quality Assurance Program for the Lifeloc EV30

Scope and Purposes

To provide standards which will insure proper use and performance of the EV30 Portable Breath Analyzer in conformance with the U.S. Department of Transportation Regulations and the procedure for conducting alcohol testing as set forth in 49 CFR, Part 40.

General

For information regarding operation of the EV30 and detailed calibration instructions, please refer to the Operations Manual supplied with each instrument.

Operating Environment

The EV30 is designed to be used in the temperature range of 0°C to 40°C.

Calibration Checks (Cal Checks)

1) Cal Check must be performed by an operator utilizing dry gas or a wet bath simulator included on the NHTSA Conforming Products List of Calibration Units for Breath Alcohol Instruments and alcohol standards approved by Lifeloc Technologies, Inc.

2) A Cal Check should be conducted every thirty (30) days as specified by NHTSA guidelines.

3) Lifeloc recommends performing a Cal Check as soon as conveniently possible after a positive alcohol test as defined by user policy and DOT regulations. This prevents an out-of-calibration unit from compromising more than one positive result.

4) A Cal Check must be performed if the unit has undergone repair.

5) The EV30 can use most common alcohol standards for Cal Checks, including but not limited to .040, .080, and .100 BAC but Lifeloc recommends using a .040 BAC standard when the instrument is used for DOT testing. Please refer to the Operations Manual for specific information regarding selecting standards. Lifeloc Technologies, requires that standards used in calibration be accurate to +/- .002 BAC.

Tolerances

Cal Checks are acceptable if the tests are conducted in accordance with the EV30 Operations Manual and are within +/- .005 BAC of the value of the alcohol standard utilized up to a .100 BAC standard.

Calibration

1) Calibrations must be performed by a Lifeloc certified calibration technician utilizing dry gas or a wet bath simulator included on the NHTSA Conforming Products List of Calibrating Units for Breath Alcohol Instruments and alcohol standards approved by Lifeloc Technologies, Inc.

2) The EV30 must be calibrated every 12 months or when the instrument fails two consecutive calibration checks (Cal Checks).
3) The EV30 can use most common alcohol standards for calibration including but not limited to .040, .080, and .100 BAC but Lifeloc recommends using a .040 BAC standard when the instrument is used for DOT testing. Please refer to the operations manual for specific information regarding selecting standards. Lifeloc Technologies, requires that standards used in calibration be accurate to +/- .002 BAC.

**Mouthpieces**

Direct tests utilizing the EV30 should only be conducted with mouthpieces approved by Lifeloc.

**Inspection**

1) The EV30 automatically conducts a diagnostic check of the electronic hardware and software system each time the instrument is turned on.

2) The operator will perform a visual physical inspection of the instrument before usage to insure that it has not sustained physical damage.

3) It is recommended that the EV30 be returned to the factory or an authorized service center once every two years for a complete evaluation.

**Conditions that necessitate removing an EV30 from service**

1) In the event that the EV30 fails its diagnostic check, it is to be removed from service and the Operations Manual consulted for further instructions.

2) Failure of two consecutive Cal Checks will require removal from service and calibration of the unit.

3) If the EV30 required calibration three times in three successive months.

4) If there are error codes which would necessitate removal of the EV30 from service. Consult your Operation's manual for a complete listing of EV30 error codes and instructions for each.

**Maintenance**

Routine maintenance procedures are specified in the EV30 Operations Manual. Repairs should be performed by personnel or persons trained and/or authorized by Lifeloc Technologies, Inc.

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The QAP is our manufacturers' Quality Assurance Plan, which has received approval by the US Department of Transportation (DOT). The terms of the QAP are enforced under DOT regulations.