

ADDITIONAL TESTING

Additional testing will be completed to ensure accuracy and reliability of the instruments prior to deployment in the field. This testing will consist of 10 Draeger Alcotest 9510 instruments. The testing of the instruments will utilize multiple solution values (identified below). The testing will be conducted on the 10 Draeger instruments on five separate days and the data compiled. All data will be run utilizing the same protocol and raw data supplied may be used for Accuracy & Precision, Measurement Range, Level of Detection, and Level of Quantification.

SOLUTION VALUES TO BE TESTED

Approximate values in g/210L See individual batch numbers for precise value as identified by G/C
0.010
0.015
0.020
0.040
0.080
0.150
0.200
0.300
0.400

SUPPLIES

- o Draeger Alcotest 9510 instrument/s
- o Guth Model 34C or Model 2100 simulators
- o Laboratory grade deionized water provide by Washington State Toxicology Laboratory
- o Simulator solutions at multiple concentrations identified above that were provided and tested by the Washington State Toxicology Laboratory
- o Simulator Solution Test Reports provided by Washington State Toxicology Laboratory.

INSTRUCTIONS

- Only use Draeger instrument/s that have been calibrated using the current draft of the calibration procedure. The printed Calibration Adjustment Record that is generated by the instrument at the conclusion of the procedure will serve as the document to be technically and administratively reviewed and issued for purposes of this testing. Documenting the technical and administrative review and certificate issuance shall be completed by the approved reviewer signing and dating at the bottom of the document after all data entry such as solution reference values, systematic error, standard deviation, coefficient of variation computations have been verified. Use of the current Excel QAPCalc record may be used for these computation verification checks.
- Set up Draeger instrument to perform 10 supervisory tests.
- Add solution to simulator and heat to appropriate temperature of $34^{\circ}\text{C} \pm 0.2^{\circ}\text{C}$. Allow at least 15 minutes for headspace and tubing of simulator to equilibrate.
- Attach simulator to Draeger and start the 10 supervisory tests.
- At completion of tests, print the results on the internal printer from the Draeger instrument and enter results into provided spreadsheet. Attach the internal printer document to the same spreadsheet by pasting in the location indicated on the spreadsheet.
- Provide the internal printout/s along with the spreadsheet with completed data to an approved technical reviewer to ensure data was entered correctly.
- Each document (spreadsheet and form with attached printouts) will be signed and dated by the technician performing the testing as well as the technician performing the technical review.
- Repeat testing on each instrument on five separate days. The days do not have to be back to back.
- At the end of the five days of testing, all documents will be provided to BTP supervisors without staples, and in an individual folder labeled with the instrument serial number and date range of the tests. Example: ARAH-5555 October 1-8, 2013.