

**In Field Instrument Review**  
**Date Range: 2023.04.11 – 2023.05.30**  
**Review Completed on 2023.06.26 by Colleen O’Bryant**

**Status Messages and Action Taken**

**100344 (Juneau PD):** 1/28 Internal Standard Error on Subject Tests – Status message was part of a series of 9 tests conducted on the same subject. Internal standard reading was 5.6%. Internal standard readings dropped to 0.5 – 2% for following tests. – No action taken.

**100351 (AST/Soldotna):** 3/36 RFI on Subject Tests, 1/4 Blank Error on VOC – A single VOC resulted in interference detected on the external standard and then a blank error. This event was followed by a completed VOC the next day – Recommend Monitoring.

**100355 (Homer PD):** 1/24 RFI on Subject Tests, 1/24 Subject Interference on Subject Tests, 1/24 Blank Error on Subject Tests – All status messages followed by completed tests - No action taken.

**100360 (Ft. Wainwright MP) –** 1/10 Blank Error on Subject Tests, 2/10 Ambient Fail on Subject Tests, 1/10 Static Analysis Error on Subject Tests, 2/6 Blank Error on VOC, 1/6 Diagnostic Failed on VOC (Pump Off) – Suggest removing instrument from service.

**100366 (Kodiak PD):** 1/22 RFI on Subject Tests – No action taken.

**100367 (Seward PD):** 1/12 Internal Standard Error on Subject Tests – Internal standard reading was 468%. Followed by a completed test with an internal standard reading of 2.8%. – Recommend Monitoring.

**100389 (AST/Fairbanks):** 1/38 RFI on Subject Tests – No action taken.

**100398 (AST/Ketchikan):** 1/2 Filter Wheel Error on VOC – Followed by a completed VOC. Recommend Removing Instrument from Service.

**100405 (Fairbanks Airport PD):** 1/6 Standard Out of Range on Subject Tests – Followed by three “Refusals” from the same subject. – No action taken.

**100406 (Denali NP):** 3/9 Diagnostic Failed on Subject Tests – 7 of 9 tests were conducted on the same subject, 2 of 9 tests were “test/test”. The three diagnostic failed status messages were on the same subject and were due to the breath tube temperature being 1-3 degrees too low. Temperature rose following three diagnostic failed status messages. – Recommend Monitoring

**100413 (Fairbanks PD):** 1/33 RFI on Subject Tests, 1/33 Pump Error on Subject Tests – Both status messages occurred on the same subject and were followed by a completed test. No action taken.

**100421 (JBER):** 1/27 RFI on Subject Tests, 2/27 Subject Interference on Subject Tests, 1/27 Standard Out of Range on Subject Tests. Followed by multiple completed tests on other subjects – Recommend Monitoring.

**100423 (Ft. Wainwright MP):** 1/1 Standard Out of Range on VOC – This instrument was removed from service on 2023.04.07. The check in process included a VOC attempt and upload with the instrument location still listed as Ft. Wainwright. This VOC was part of the troubleshooting process and was conducted at the lab. (100423 2023.05.17 Check In). – No Action Taken.

**100667 (Anchorage PD):** 1/146 RFI on Subject Tests, 1/146 Subject Interference on Subject Tests, 2/146 Blank Error on Subject Tests, 1/146 Diagnostic Failure on Subject Tests – All status messages were followed by a completed test. The diagnostic test failed due to breath tube temperature being too low. - No Action Taken.

**100687 (Anchorage PD):** 2/3 Subject Interference on Subject Tests – Both subject tests were conducted on the same subject. Elevated filter 2 reading. No Action Taken.

**100691 (Cordova PD):** 1/4 RFI on VOC – Followed by a successfully completed VOC. No action taken.

**100695 (Whittier PD):** 3/3 Tank Interference on Subject Tests, 1/4 RFI on VOC, 1/4 Diagnostic failure on VOC – Two additional failed VOCs due to diagnostic failures on 2023.06.12. Elevated chopper wheel values for all three diagnostic failures on VOCs. Recommend Replacing Instrument.

**100697 (Anchorage PD):** 2/122 RFI on Subject Tests, 1/122 Interference on Subject Tests, 1/122 Blank Error on Subject Tests – No action taken.

**100698 (AST/Glennallen):** 1/4 Subject Interference on Subject Tests – Followed by a successfully completed test – No action taken.

**100699 (Valdez PD):** 1/5 RFI on Subject Tests, 1/5 Standard Out of Range on Subject Tests – Tank pressure above 1000psi. Due to low amount of subject tests – Recommend monitoring.

**100700 (Palmer PD):** 1/39 RFI on Subject Tests – No Action Taken.

### **Follow Up from Previous In Field Instrument Review**

**100382 (Petersberg PD):** Instrument was being monitored for 1/10 Static Analysis Error on Subject tests. No additional status messages. Discontinue Monitoring.

**100398 (AST/Ketchikan):** Instrument was being monitored for 1/1 Filter Wheel Error on VOC. Instrument also encountered a filter wheel error this cycle. Recommend Removing Instrument from Service.

**100691 (Cordova PD):** Instrument was being monitored for gas flow errors. No additional status messages. Discontinue Monitoring.

Agencies not included in this summary:

**100352 (North Slope Borough PD):** Tank Change Needed

**100362 (AST/Kodiak):** Tank Change Needed

**100368 (Seldovia PD):** Tank Change Needed

**100381 (AST/Talkeetna):** Tank Change Needed

**100360 (Ft. Wainwright):** Instrument doesn't upload, files needed – Recommend Replacement

**100420 (Ft. Greely MP):** Instrument doesn't upload, files needed.

**100424 (Eielson AFB):** Instrument doesn't upload, files needed.

**100398 (AST/Ketchikan):** Instrument likely has a status message being displayed. No  
2023.05.30 VOC. – Recommend Replacement



Subject Test Data

Table with columns: Serial Number, Total Subject Tests, User Abort, Detector Overflow, Barometer Error, Filter Wheel Error, Suck Back Error, Date Range (4/11/2023 - 5/30/2023), Total Tests (743), Total Messages (1), and 0.1%. Rows 100255 to 100700.

\*\*The date range listed above represents the first and last dates of data generated from the DMHost report. The search range could be larger than the date range listed.\*\*



