

## **In Field Instrument Review**

**04/12/2020 to 05/30/2020**

**Performed by Derek Walton**

**100343 (Sitka PD):** 1/12 Pump error, 7/12 Subject interference on subject tests – 3 different subjects and 2/5 Tank interference last cycle, *Recommend monitoring*

**100345 (Valdez PD):** 1/12 Subject interference, 1/12 Blank error, 1/12 Ambient fail on subject tests - No action taken

**100350 (Valdez PD):** 2/4 Ambient fail on subject tests, 5/5 Diagnostic fail on VOCs – Instrument removed from service on 5/29/20

**100352 (Anchorage Airport):** 4/22 Pump error on subject tests – *Recommend monitoring*

**100355 (Homer PD):** 1/12 RFI, 2/12 Subject interference on subject tests – No action taken

**100361 (Anchorage PD):** 3/70 RFI, 4/70 Subject interference, 3/70 Blank error on subject tests – No action taken

**100363 (AST Anchor Point):** 1/2 RFI on subject test – Followed by a successful test, No action taken

**100367 (Seward PD):** 2/18 RFI, 1/18 Blank error on subject tests – No action taken

**100369 (Bethel PD):** 2/4 Standard out of range on subject tests – Taken out of service on 04/24/20

**100378 (AST Fairbanks):** 4/36 RFI on subject tests – No action taken

**100380 (Anchorage PD):** 1/26 Ambient fail on subject tests – No action taken

**100381 (AST Soldotna):** 3/24 RFI, 1/24 Pump error on subject tests – No action taken

**100382 (University of Alaska – Fairbanks):** 2/5 Tank interference on VOCs – Interferences occurred on the same day the instrument was shut down to attach to a different UPS unit – *Recommend monitoring*

**100395 (Fairbanks Airport):** 1/4 Internal standard error on subject tests – Appears to be higher than other recent internal standard values - *Recommend monitoring*

**100398 (AST Galena):** 1/4 Tank interference, 1/4 Diagnostic failed (due to pump) on VOCs – No action taken

**100400 (Craig PD):** 1/7 Tank interference on subject tests – No action taken

**100406 (Juneau PD):** 2/18 RFI, 1/18 Blank error on subject tests – No action taken

**100413 (Kenai PD):** 1/12 RFI on subject tests – No action taken

**100414 (AST Delta Junction):** 1/3 RFI, 1/3 Gas flow error on same subject, followed by a completed test – No action taken

**100416 (Fairbanks PD):** 3/41 RFI, 3/41 Tank interference on subject tests – All within 5 hours with 2 subjects - *Recommend monitoring*

**100424 (Eielson AFB):** 1/6 Subject interference on subject tests, 5/6 Filter wheel error on VOCs – Removed from service on 04/04/20. Several subject tests performed after Out of Service date from Change in Instrument Status form – all resulted in status messages.

**100668 (Palmer PD):** 1/18 RFI on subject tests – No action taken

**100669 (AST Tok):** 5/8 Filter wheel errors on subject tests – Instrument taken out of service on 05/25/20.

**100675 (AST Bethel):** 1/15 Blank error, 1/15 Ambient fail on subject tests – No action taken

**100678 (AST Mat-Su West):** 3/25 RFI, 1/25 Tank interference on subject tests – No action taken

**100689 (Anchorage PD):** 1/64 Blank error, 1/64 Ambient fail, 1/64 Internal standard error on subject tests, 1/2 Diagnostic failed on VOCs – Instrument taken out of service on 05/18/20

**100694 (Anchorage PD):** 1/129 Subject interference, 6/129 Tank interference, 13/129 Blank error, 1/129 Ambient fail, 3/129 Internal standard error on subject tests – *Recommend monitoring*

**100695 (AST Talkeetna):** 1/3 Tank interference on subject tests – Followed by a completed test, No action taken

#### **Follow ups from previous In Field Instrument Review**

**100406 (Juneau PD):** No pump errors for 2 cycles – Discontinue monitoring

**100412 (Unalaska DPS):** No further status messages during this cycle - Discontinue monitoring

**Seward PD:** One additional blank error with replacement instrument (100367) – Continue monitoring

No agencies were excluded from this review.

# Subject Test Data

Serial Number	Total Subject Tests	Date Range								Total Tests		Total Messages									
		4/12/2020				5/30/2020				748		95									
		RFI		Pump Error		Interference		Tank Interference		Blank Error		Standard Out of Range		Gas Flow Error		Ambient Fail		Internal Standard Error		Diagnostic Failed	
100343	12	0	0%	1	8%	7	58%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100345	12	0	0%	0	0%	1	8%	0	0%	1	8%	0	0%	0	0%	1	8%	0	0%	0	0%
100350	4	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2	50%	0	0%	0	0%
100352	22	0	0%	4	18%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100355	12	1	8%	0	0%	2	17%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100361	70	3	4%	0	0%	4	6%	0	0%	3	4%	0	0%	0	0%	0	0%	0	0%	0	0%
100363	2	1	50%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100367	18	2	11%	0	0%	0	0%	0	0%	1	6%	0	0%	0	0%	0	0%	0	0%	0	0%
100369	4	0	0%	0	0%	0	0%	0	0%	0	0%	2	50%	0	0%	0	0%	0	0%	0	0%
100378	36	4	11%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100380	26	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	4%	0	0%	0	0%
100381	24	3	13%	1	4%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100395	4	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	25%	0	0%
100400	7	0	0%	0	0%	0	0%	1	14%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100406	18	2	11%	0	0%	0	0%	0	0%	1	6%	0	0%	0	0%	0	0%	0	0%	0	0%
100413	12	1	8%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100414	3	1	33%	0	0%	0	0%	0	0%	0	0%	1	33%	0	0%	0	0%	0	0%	0	0%
100416	41	3	7%	0	0%	0	0%	3	7%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100424	6	0	0%	0	0%	1	17%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100668	18	1	6%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100675	15	0	0%	0	0%	0	0%	0	0%	1	7%	0	0%	0	0%	1	7%	0	0%	0	0%
100678	25	3	12%	0	0%	0	0%	1	4%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
100689	64	0	0%	0	0%	0	0%	0	0%	1	2%	0	0%	0	0%	1	2%	1	2%	0	0%
100694	129	0	0%	0	0%	1	1%	6	5%	13	10%	0	0%	0	0%	1	1%	3	2%	0	0%
100695	3	0	0%	0	0%	0	0%	1	33%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Total	748	25	3%	6	1%	16	2%	12	2%	21	3%	2	0%	1	0%	7	1%	5	1%	0	0%





