

In Field Instrument Review  
Date Range: 2023.01.04 – 2023.02.21  
Review Completed on 2023.03.15 by Colleen O'Bryant

Status Messages and Action Taken

**100342 (Bethel PD):** 1/8 Pump Error on Subject Tests – No action taken

**100344 (Juneau PD):** 2/22 Interference Detected on Subject Tests – Both tests on the same subject - No action taken

**100345 (North Pole PD):** 1/12 RFI on Subject Test – No action taken

**100347 (AST/Cantwell):** 1/4 Tank Interference on VOC – followed by a completed VOC. No action taken

**100348 (Metlakatla PD):** 3/8 Diagnostic Failed on Subject Tests – All three tests on the same subject and failed due to breath tube temperature being too low. BTS Janes conducted a test/test the following day and temperature returned to within range. No additional issues with breath tube temperature. No action taken.

**100358 (AST/Mat-Su West):** 4/22 RFI on Subject Test, 1/22 Pump Error on Subject Test – One RFI occurred during test/test, remaining three RFIs were followed by completed tests. No action taken

**100366 (Kodiak PD):** 1/12 Pump Error on Subject Test – followed by completed test – No action taken.

**100370 (UAF PD):** 1/4 RFI on Subject Test – followed by completed test – No action taken.

**100389 (AST/Fairbanks):** 1/42 RFI on Subject Test– followed by completed test – No action taken.

**100412 (AST/Unalakleet):** 1/1 Tank Interference on VOC – successfully completed VOC on 2023.02.28. – Monitor instrument for tank interference

**100420 (Ft. Greely PD):** 1/5 Blank Error on Subject Tests – followed by completed test – No action taken.

**100421 (JBER):** 1/31 Ambient Fail on Subject Tests – No action taken

**100667 (Anchorage PD):** 2/4 Interference Detected on Subject Tests – Occurred on the same subject, elevated filter two readings – No action taken.

**100668 (Anchorage PD):** 1/7 Interference Detected on Subject Tests, 3/7 Filter Wheel Error on Subject Tests, 2/5 Blank Error on VOCs, 1/5 Diagnostic Fail on VOCs - Removed from service for filter wheel errors on 2023.02.09 (100668 2023.02.09 Change In Status)

**100689 (Anchorage PD):** 2/155 RFI on Subject Tests, 1/155 Pump Error on Subject Tests, 1/155 Interference Detected on Subject Tests, 2/155 Diagnostic failed on Subject Tests –

Diagnostic failures were due to tank pressure being too low (95psi). Tank change occurred following – No action taken

**100691 (Cordova PD):** 1/1 Gas Flow Error on VOC – VOC successfully completed on 2023.02.25 – Monitor instrument for gas flow errors

**100693 (Juneau PD):** 2/2 Blank Error on Subject Tests – Both tests were conducted on the same individual with an elevated detector response. No action taken.

**100697 (Anchorage PD):** 10/156 RFI on Subject Tests, 1/156 Pump Error on Subject Tests, 4/156 Interference Detected on Subject Tests, 3/156 Tank Interference on Subject Tests, 1/156 Blank Error on Subject Tests, 1/156 Ambient Fail on Subject Tests – 3 Interference Detected on External standards were conducted using “test/test” with an elevated Filter 3 reading. 4 Interference Detected on Subject Tests were conducted on two subjects – Continue monitoring for interference detected on external standards

**100699 (Valdez PD):** 1/7 Standard out of Range on Subject Tests – Followed by a completed test with an elevated detector response – Tank pressure ~300psi – Requested a new tank be sent on 2023.03.15.

**100700 (Palmer PD):** 3/49 RFI on Subject Tests, 1/49 Pump Error on Subject Tests – No action taken

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

**100413 (Fairbanks PD)** – Recommend Monitoring for internal standard errors – No additional status messages meeting these descriptions during this IFIR cycle – Discontinue Monitoring.

**100668 (Anchorage PD):** Recommend Removing the Instrument from Service for Filter Wheel Errors - Removed from service for filter wheel errors on 2023.02.09 (100668 2023.02.09 Change In Status)

**100689 (Anchorage PD):** Recommended Monitoring for Standard out of Range and Diagnostic Failures for low breath tube temperature – No additional status messages meeting these descriptions during this IFIR cycle – Discontinue Monitoring.

**100690 (Clear AFB):** Recommended Monitoring for Internal Standard Failures – 2023.01.03 VOC failed internal standard at 4.4%. 2023.01.03 (2) VOC and 2023.02.21 VOCs successfully completed with all internal standard values less than 4%. – Discontinue Monitoring

**100697 (Anchorage PD):** Recommended Monitoring for tank interference on subject tests and VOCs - 3 Interference Detected on External standards were conducted using “test/test” with an elevated Filter 3 reading – Continue monitoring for interference detected on external standards

Agencies not included in this summary:

**100376 (AST/St. Marys)** – Last Upload 2022.02.02 – Data received after IFIR completed.

**100424 (Eielson AFB)** – Last date of files 2023.01.03 – USB mailed to agency – not returned as of this report.

Subject Test Data

Serial Number	Total Subject Tests	Date Range								Total Tests		Total Messages		Diagnostic Failed		Total Codes						
		RFI		Pump Error		Interference		Tank Interference		Blank Error		Standard Out of Range		Gas Flow Error			Ambient Fail		Internal Standard Error			
		1/4/2023	2/21/2023	1/4/2023	2/21/2023	1/4/2023	2/21/2023	1/4/2023	2/21/2023	1/4/2023	2/21/2023	1/4/2023	2/21/2023	1/4/2023	2/21/2023		1/4/2023	2/21/2023	1/4/2023	2/21/2023		
100342	8	0	0%	1	13%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100344	22	0	0%	0	0%	2	9%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2
100345	12	1	8%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100348	8	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	3	38%	3
100358	22	4	18%	1	5%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	5
100366	12	0	0%	1	8%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100370	4	1	25%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100389	42	1	2%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100420	5	0	0%	0	0%	0	0%	0	0%	1	20%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100421	31	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	3%	0	0%	0	0%	0	0%	1
100667	4	0	0%	0	0%	2	50%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2
100668	7	0	0%	0	0%	1	14%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100689	155	2	1%	1	1%	1	1%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	2	1%	6
100693	2	0	0%	0	0%	0	0%	0	0%	2	100%	0	0%	0	0%	0	0%	0	0%	0	0%	2
100697	156	10	6%	1	1%	4	3%	3	2%	1	1%	0	0%	1	1%	0	0%	0	0%	0	0%	20
100699	7	0	0%	0	0%	0	0%	0	0%	1	14%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100700	49	3	6%	1	2%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	4
Total	756	22	3%	6	1%	10	1%	3	0%	4	1%	1	0%	2	0%	0	0%	0	0%	5	1%	53

\*\*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.\*\*

**Subject Test Data**

Serial Number	Total Subject Tests	User Abort		Detector Overflow		Barometer Error		Filter Wheel Error		Date Range		Total Tests		Total Messages		Samp Chamb Low	Breath Tube High	Static Analysis Error	Total Codes	
										1/4/2023	2/21/2023	756	0.4%	3	0.4%					
100668	7	0	0%	0	0%	0	0%	3	43%	0	0%	0	0%	0	0%	0	0%	0	0%	3
Total	756	0	0%	0	0%	0	0%	3	0%	0	0%	0	0%	0	0%	0	0%	0	0%	3

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VOC Data

Serial Number	Total VOC Tests	RHI		Pump Error		Interference		Tank Interference		Date Range		Total Tests				Total Messages		Diagnostic Failed	Total Codes					
										1/5/2023	2/21/2023	101		6		5.9%								
										Blank Error		Standard Out of Range		Gas Flow Error		Ambient Fail				Internal Standard Error				
100347	4	0	0%	0	0%	0	0%	1	25%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1		
100412	1	0	0%	0	0%	0	0%	1	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1
100668	5	0	0%	0	0%	0	0%	0	0%	2	40%	0	0%	0	0%	0	0%	0	0%	0	0%	1	20%	3
100691	1	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	1	100%	0	0%	0	0%	0	0%	0	0%	1
Total	101	0	0%	0	0%	0	0%	2	2%	2	2%	0	0%	1	1%	0	0%	0	0%	0	0%	1	1%	6

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VOC Data

Serial Number	Total VOC Tests	User Abort	Detector Overflow	Barometer Error	Filter Wheel Error	Date Range		Total Tests			Samp Chamb Low	Breath Tube High	Static Analysis Error	Total Codes
						1/5/2023	2/21/2023	Undefined Error	Filter 1 Won't Zero	101				
100255	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100342	2	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100343	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100344	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100345	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100346	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100347	4	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100348	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100349	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100350	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100351	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100352	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100353	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100354	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100355	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100356	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100357	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100358	2	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100359	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100360	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100361	2	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100362	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100363	3	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100364	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100365	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100366	2	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100367	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100368	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100369	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100370	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100371	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100372	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100373	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100374	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100375	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100376	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100377	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100378	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100379	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100380	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100381	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100382	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100384	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100385	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100386	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100387	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100388	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100389	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100390	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100391	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100392	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100395	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100396	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100397	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100398	2	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100399	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100400	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100402	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100403	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100404	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100405	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100406	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100410	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100411	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100412	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100413	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100414	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100415	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100416	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100417	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100418	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100420	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100421	2	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100422	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100423	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100424	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100665	3	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100666	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100667	4	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100668	5	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100669	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100670	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100671	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100672	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100673	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100674	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100675	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100676	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100677	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100678	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100679	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100680	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100681	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100682	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100683	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100684	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100685	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100686	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100687	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100688	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100689	2	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100690	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100691	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100692	3	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100693	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100694	0	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100695	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100696	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100697	3	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100698	3	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100699	2	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
100700	1	0	0%	0	0%	0	0	0	0%	0	0	0	0	0
Total	101	0	0%	0	0%	0	0	0	0%	0	0	0	0	0

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