

SAT-QR-95001
 Verification Checklist
 In Situ Ultraviolet Spectrophotometer (ISUS)



This document is the final inspection, verification checklist for a Satlantic ISUS. The inspection is performed after all other work has been completed, before it is shipped to a customer. The inspection is conducted and QA counter signed by qualified Satlantic Technicians.



Aluminum ISUS with optional Biofouling guard

Serial Number: 209
 Version: Standard ISUS-X
 Construction: Aluminum PVC
 Battery Pack: SN: _____
 Project Number: 2009-277
 Date: 11 Aug. 2010

Interface Functions (ISUSCom):

- Check instrument setup
- Confirm default schedule present
- Run complete system (cables, battery packs, MDU)
 Run acquisition
- Create Summary Report
 Store internal copy
- Test update calibration procedure

Data Functions:

- | | |
|---|--------------------------------|
| <input checked="" type="checkbox"/> Nitrate value using DIW | <u>0.49</u> μM |
| <input checked="" type="checkbox"/> Nitrate value using ASW | <u>-0.44</u> μM |
| <input checked="" type="checkbox"/> Nitrate value using standard solution | <u>80.31</u> μM |
| <input checked="" type="checkbox"/> Instrument temperature after 10 minutes | <u>28.5</u> $^{\circ}\text{C}$ |
| <input checked="" type="checkbox"/> Lamp temperature after 10 minutes | <u>41.2</u> $^{\circ}\text{C}$ |
| <input checked="" type="checkbox"/> Spec temperature after 10 minutes | <u>24.1</u> $^{\circ}\text{C}$ |
| <input checked="" type="checkbox"/> Internal humidity value | <u>6.5</u> % |
| <input checked="" type="checkbox"/> Shutter function - check dark frames | <u>860</u> Counts |
| <input checked="" type="checkbox"/> Test binary output | |
| <input checked="" type="checkbox"/> Delete test files from disk | |

Hardware Functions:

- | | |
|--|----------------|
| <input checked="" type="checkbox"/> Test analog output. Voltage at midscale | <u>2.061</u> V |
| <input checked="" type="checkbox"/> Test scheduled mode
Reset to continuous <input checked="" type="checkbox"/> | |
| <input checked="" type="checkbox"/> Run ISUS from 2-pin Power port. Current Draw at 12V | <u>540</u> mA |
| <input checked="" type="checkbox"/> Run ISUS from 6-pin P/T port. Current Draw at 25V | <u>300</u> mA |
| <input checked="" type="checkbox"/> Check cable terminations, splices, and pigtails | |

Quality Assurance: Derek Adam

Date: 12 Aug 2010