

Seacions August 2013

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DIGITAL O₃ JN
MMERCE
search Lab
E CHECKLISTFLT# HU 823

INITIAL PREPARATION ~7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 08/30/2013
INITIALS: NLP
PUMP# (add x,y,z,R): 2222234

1. Run zero air 10 minutes. ☒ (✓)
2. PUMP CURRENT: 103.57
3. PUMP PRESSURE: >10
4. ENSCI Press/vac: 2222234

5. Bypass cell ☒ (✓)
6. Add 5-6cc cathode ☒ (✓)
7. 30 MINUTES HI O₃ ☒ (✓)
8. 3 MINUTES NO O₃ ☒ (✓)

9. DUMP CATHODE RINSE: ☒ (✓)
10. ADD 3.0 CC FRESH CATHODE # ☒ (✓)
11. ADD 1.5 CC ANODE SOLUTION: ☒ (✓)
12. RUN 10 MINUTES on NO O₃ ☒ (✓)
13. RECORD CURRENT: BG = 0.114 μ amps ☒ (✓)
14. RUN 10 MINUTES on 5 μ amps O₃ ☒ (✓) - then switch to NO O₃ AIR.
15. RECORD: TIME TO DROP FROM 4 TO 1.5 μ amps: 33.37 sec.

16. Run sonde for 10 minutes on NO O₃ AIR ☒ (✓)
17. Short the cell leads: ☒ (✓)
18. Intake tube stored in sonde frame: ☒ (✓)
19. Place Instrument inside plastic bag: ☒ (✓)
20. Store inside Styrofoam flight box: ☒ (✓)

2-5 DAYS AFTER INITIAL PREP: REPLACE SOLUTIONS: DATE (LOCAL): 09/04/2013

1. Replace Cathode/Anode ☒ (✓)
2. RUN 5 MINS on NO O₃ ☒ (✓)
3. RECORD CURRENT: 0.049 μ amps
4. RUN 5 MINS on 5 μ amps O₃ ☒ (✓)
5. Switch to NO O₃ AIR

6. RECORD TIME TO DROP FROM 4 TO 1.5 μ amps: 25.89 sec
7. RUN 5 MINS on NO O₃ ☒ (✓)
8. Short cell leads ☒ (✓)
9. Store inside Styrofoam flight box: ☒ (✓)

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): 09/07/2013
INITIALS: NLP

1. Cathode solution # or date written on bottle: 239
2. CHANGE CATHODE SOLUTION (3cc): ☒ (✓)
3. CHANGE ANODE SOLUTION (1.5cc): ☒ (Yes/No)
4. RUN ON NO O₃ FOR 10 MINUTES: ☒ (✓)
5. RECORD THE NO O₃ BACKGRND#1: BG1 = 0.028 μ amps
6. RUN ON 5 microamps of O₃ for 10 Minutes: ☒ (✓)
7. SWITCH TO NO O₃ AIR.
8. RECORD: THE TIME TO DROP FROM 4 TO 1.5 μ amps: 21.11 sec
9. RECORD: 5 - T100 FLOWRATE TIMES:

T100 FLOWRATE TIMES:

ROOM TEMP (C): 25.3 ROOM RH (%): 47
Flowrate Correction: 1.94 (%)

FLOWRATE #1: 28.20 secFLOWRATE #2: 28.05 secFLOWRATE #3: 28.23 secFLOWRATE #4: 28.13 secFLOWRATE #5: 28.16 sec*AVERAGE T100: 28.15 sec

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU 823
GMT DATE (YYMMDD): 09/07/2013 LOCAL DATE: 09/07/2013
GMT LAUNCH TIME: 17:50 LOCAL TIME: 12:50
Operator Initials: NLP
BALLOON SIZE: 1000 Grams: TOTEX _____ Hwoyee ☒ (✓ one)
PAY-OFF-WEIGHT: 1700 Grams: Burst Alt: 30.18 (km)

O₃ sn: 2222234 O₃ CELL BACKGROUND (μ amps): 0.028
O₃ Flowrate: 28.15 (sec) O₃ Flowrate Correction: 1.94 (%)

Radiosonde s/n: 20968 Freq: 403 (MHz)SURFACE PRES: 994.6 (hPa)SURFACE TEMP: 31 (C)SURFACE RH: 47.9 (%)Sky Conditions: Sunny, with a high near 92. calm wind becoming SW around 5 mphREMARKS: per NOAA weather