

January 2014 NEW

INITIAL PREPARATION 10-14 DAYS BEFORE FLIGHT.

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| DATE (LOCAL): <u>3/26/2014</u> | 1. Run zero air 10 minutes <input checked="" type="checkbox"/> (✓) | 5. Bypass cell <input checked="" type="checkbox"/> (✓) |
| INITIALS: <u>WTC</u> | 2. PUMP CURRENT: <u>95.67</u> | 6. Add 5-6cc cathode <input checked="" type="checkbox"/> (✓) |
| PUMP# (add x,y,z,R): <u>2#24677</u> | 3. PUMP PRESSURE: <u>>11</u> | 7. 30 MINUTES HI O ₃ <input checked="" type="checkbox"/> (✓) |
| | 4. ENSCI Press/vac: <u>30/20 in Hg</u> | 8. 3 MINUTES NO O ₃ <input checked="" type="checkbox"/> (✓) |
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| 9. DUMP CATHODE RINSE: <input checked="" type="checkbox"/> (✓) | 16. Run sonde for 10 minutes on NO O ₃ AIR <input checked="" type="checkbox"/> (✓) |
| 10. ADD 3.0 CC FRESH CATHODE # <input checked="" type="checkbox"/> (✓) | 17. Short the cell leads: <input checked="" type="checkbox"/> (✓) |
| 11. ADD 1.5 CC ANODE SOLUTION: <input checked="" type="checkbox"/> (✓) | 18. Intake tube stored in sonde frame: <input checked="" type="checkbox"/> (✓) |
| 12. RUN 10 MINUTES on NO O ₃ <input checked="" type="checkbox"/> (✓) | 19. Place Instrument inside plastic bag: <input checked="" type="checkbox"/> (✓) |
| 13. RECORD CURRENT: BG = <u>0.279</u> μamps | 20. Store inside Styrofoam flight box: <input checked="" type="checkbox"/> (✓) |
| 14. RUN 10 MINUTES on 5 μamps O ₃ <input checked="" type="checkbox"/> (✓) - then switch to NO O ₃ AIR. | |
| 15. RECORD: TIME TO DROP FROM 4 TO 1.5 μamps: <u>42.13</u> sec. | |

AFTER 1 WEEK: REPLACE SOLUTIONS:

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| DATE (LOCAL): <u>4/3/2014</u> | 1. RUN 5 MINS on NO O ₃ <input checked="" type="checkbox"/> (✓) | 3. RUN 5 MINS on 5 μamps O ₃ <input checked="" type="checkbox"/> (✓) - then switch to NO O ₃ AIR |
| | 2. RECORD CURRENT: <u>0.078</u> μamps | 4. RECORD TIME TO DROP FROM 4 TO 1.5 μamps: <u>27.83</u> sec |
| | | 5. Short cell leads and Store in Styrofoam flight box: <input checked="" type="checkbox"/> (✓) |

FLIGHT PREPARATION IN LAB. (Under 24 hours to launch)

DATE (LOCAL): 4/12/2014
INITIALS: WTC

T100 FLOWRATE TIMES:

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| 1. Cathode solution # or date written on bottle: <u>239</u> | ROOM TEMP (C): <u>22</u> , ROOM RH (%): <u>43</u> |
| 2. CHANGE CATHODE SOLUTION (3cc): <input checked="" type="checkbox"/> (✓) | Flowrate Correction: <u>82.12</u> (%) |
| 3. CHANGE ANODE SOLUTION (1.5cc): <input checked="" type="checkbox"/> (Yes/No) | FLOWRATE #1: <u>28.47</u> sec |
| 4. RUN ON NO O ₃ FOR 10 MINUTES: <input checked="" type="checkbox"/> (✓) | FLOWRATE #2: <u>29.30</u> sec |
| 5. RECORD THE NO O ₃ BACKGRND#1: BG1 = <u>0.032</u> μamps | FLOWRATE #3: <u>28.55</u> sec |
| 6. RUN ON 5 microamps of O ₃ for 10 Minutes: <input checked="" type="checkbox"/> (✓) | FLOWRATE #4: <u>28.16</u> sec |
| 7. SWITCH TO NO O ₃ AIR. | FLOWRATE #5: <u>28.37</u> sec |
| 8. RECORD: THE TIME TO DROP FROM 4 TO 1.5 μamps: <u>27.06</u> sec | AVERAGE T100: <u>28.37</u> sec |
| 9. RECORD: 5 - T100 FLOWRATE TIMES: | |

Wet
29.36
29.40
29.38
29.38
Day
28.81
28.80
28.72
28.75

DAY OF FLIGHT @ THE LAUNCH SITE.

Results: O₃ Sonde TCO extrap: _____ (DU)
O₃ Sonde TCO SBUV: _____ (DU)

FLIGHT NUMBER: HU 860
GMT DATE (YYMMDD): 140412 LOCAL DATE: 140412
GMT LAUNCH TIME: _____ LOCAL TIME: _____
Operator Initials: WTC

BALLOON SIZE: 1200 Grams: TOTEX Hwoyee _____ PAWAN _____ (✓ one)
PAY-OFF-WEIGHT: 1700 Grams: Burst Alt: _____ (km) Turn/Burst: _____

O₃ sn: 2324677 O₃ CELL BACKGROUND (μamps): 0.032 O₃ Ventilation Holes: (Y/N) Y
O₃ Flowrate: 28.37 (sec) O₃ Flowrate Correction: 212 (%)
Radiosonde #: 25386 Freq: 403 (MHz) If Vais RS-80, Pressure offset written on bag: _____ (hPa)
NOAA FPH sn: _____
Other instruments: _____

SURFACE PRES: _____ (hPa)
SURFACE TEMP: _____ (C)
SURFACE RH: _____ (%)

Sky Conditions: _____

REMARKS: _____