

U.S. DEPT. OF COMMERCE
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
 CLIMATE MONITORING AND DIAGNOSTICS LABORATORY
 DIGITAL OZONESONDE CHECKLIST

FLT # HU694

Huntsville

INITIAL PREPARATION 3-7 DAYS BEFORE FLIGHT.

DATE (LOCAL): 7/23/2011 PUMP CURRENT: 85.9 uA 30 MINUTES HI O₃ (v)
 INITIALS: SKH PUMP PRESSURE: 711 5 MINUTE NO O₃ (v)
 PUMP NUMBER: 29594-120 PUMP VACUUM: 722

ADD 3.0 CC CATHODE SOLUTION: (v) Short the cell leads: (v)
 WAIT 2 MINUTES: (v) Add about 2.5 CC more Cathode Solution (2Z) (v)
 ADD 1.5 CC ANODE SOLUTION: (v) Place Instrument inside plastic bag: (v)
 RUN 20 MINUTES ON NO O₃: (v) Store inside Styrofoam flight box: (v)
 Record the current after the 20 MINUTES ON NO O₃: = 0.76 uamps

FLIGHT PREPARATION IN LAB.

DATE (LOCAL): ~~8/1/2011~~ 8/6/2011
 INITIALS: WTC
 Cathode solution date written on bottle: 03/20/2010
 CHANGE CATHODE SOLUTION (3cc): (v)
 CHANGE ANODE SOLUTION (1.5cc): (v) (Yes/No)
 RUN ON NO O₃ FOR 5 MINUTES: (v)
 RECORD THE NO O₃ BACKGRND#1: BG1 = 0.067 uamps
 RUN ON 5 microamps of O₃ for 10 Minutes: (v)

T100 FLOWRATE TIMES:

FLOWRATE #1: 29.96 sec
 FLOWRATE #2: 29.87
 FLOWRATE #3: 29.80
 FLOWRATE #4: 29.93
 FLOWRATE #5: 29.81
AVERAGE T100: 29.87

DRY T100

#1: 27.8
 #2: 27.73
 #3: 27.87
DRY AVG: 27.81

WET T100

#1: 28.23
 #2: 28.33
 #3: 28.15
WET AVG: 28.24

RESONSE TIME

SWITCH TO NO O₃ AIR.

RECORD: THE TIME TO DROP FROM 4 TO 1.5 uamps: 22.47 sec.

RECORD: ROOM TEMP (C) 24.6 ROOM REL. HUMID. (%) 56

RECORD: 5 - T100 FLOWRATE TIMES:

*T100 Flowrate correction: 1.54 %

DAY OF FLIGHT @ THE LAUNCH SITE.

FLIGHT NUMBER: HU694
 GMT DATE: 8/6/2011 LOCAL DATE: 8/6/2011
 GMT LAUNCH TIME: 19:17:05 LOCAL TIME: 14:17:05

BALLOON TYPE 1200 Gram : Kaymont Scientific Sales (v one)

O₃ BACKGROUND (uamps from F9 key): _____

VAISALA NUMBER (9 digit): 198711844
 SURFACE PRESSURE: _____
 SURFACE TEMP. (C): _____
 SURFACE HUMIDITY: _____

SKY CONDITIONS: Cloudy
 - BURST PRESSURE (mb): _____

REMARKS: _____
Alt: 25.7 km

weighoff = _____ grams

*T100 flow corr (%) = [(WET/DRY)-1.0] X 100