

2013-08-27

### TM3 (NEW SOURCE TRAY)

LEAK CHECK AT CON STA  
HELIUM PRESSURE TEST ON ALL WATER  
CIRCUITS (~~EXCEPT~~ ~~W/ALDOU~~) WITH 60 PSI HELIUM

LEAK DETECTOR BASE LR =  $7.2 \times 10^{-9}$  atm.cc/sec

BASE PRESSURE =  $2.0 \times 10^{-2}$  torr

CS: 1G1  $5.2 \times 10^{-9}$  torr | 1G1S  $8 \times 10^{-6}$  torr | 1G2  $7.4 \times 10^{-6}$  torr

1. TAR OVEN (+) 7:11 start | 7:14 finish  
B.L  $5.8 \times 10^{-9}$  atm.cc/sec | B.L  $5.4 \times 10^{-9}$   
B.P  $2.0 \times 10^{-2}$  torr | B.P  $2.0 \times 10^{-2}$  torr

2. TAR OVEN (-) -  
7:14 start | 7:17 finish  
B.L  $5.4 \times 10^{-9}$  | B.L  $5.2 \times 10^{-9}$   
B.P  $2.0 \times 10^{-2}$  | B.P  $2.0 \times 10^{-2}$

3. TUBE HEATER (-)  
7:18 start | 7:21 finish  
B.L  $5.1 \times 10^{-9}$  | B.L  $4.9 \times 10^{-9}$   
B.P  $2.0 \times 10^{-2}$  | B.P  $2.0 \times 10^{-2}$

4. TUBE HEATER (+)  
7:21 start | 7:24 finish  
B.L  $4.8 \times 10^{-9}$  | B.L  $4.8 \times 10^{-9}$   
B.P  $2.0 \times 10^{-2}$  | B.P  $2.0 \times 10^{-2}$

5 COIL 1 2013-08-28

start 06:54  
B.L  $3.4 \times 10^{-5}$   
B.P  $1.2 \times 10^{-2}$

finish 06:57  
B.L  $3.4 \times 10^{-5}$   
B.P  $1.2 \times 10^{-2}$

6 COIL 2  
2013-08-28

start 07:11  
B.L  $3.5 \times 10^{-5}$   
B.P  $1.2 \times 10^{-2}$

finish 07:14  
B.L  $3.5 \times 10^{-5}$   
B.P  $1.2 \times 10^{-2}$

7 EE

start 7:25  
B.L  $4.9 \times 10^{-9}$   
B.P  $2.0 \times 10^{-2}$

finish 7:28  
B.L  $4.8 \times 10^{-9}$   
B.P  $2.0 \times 10^{-2}$

8 MSP

start 7:29  
B.L  $4.8 \times 10^{-9}$   
B.P  $2.0 \times 10^{-2}$

finish 7:32  
B.L  $4.7 \times 10^{-9}$   
B.P  $2.0 \times 10^{-2}$

9 G.F

2013-08-28  
start 06:58  
B.L  $3.4 \times 10^{-5}$   
B.P  $1.2 \times 10^{-2}$

finish 07:01  
B.L  $3.4 \times 10^{-5}$   
B.P  $1.2 \times 10^{-2}$

10. WINDOW 1.

2013-08-28  
start 07:02  
B.L  $3.4 \times 10^{-5}$   
B.P  $1.2 \times 10^{-2}$

finish 07:05  
B.L  $3.4 \times 10^{-5}$   
B.P  $1.2 \times 10^{-2}$

11 WINDOW 2.

07:06  
B.L  $3.4 \times 10^{-5}$   
0 0 1 ..... -2

07:09  
No charge

12 H/S 1 start 7:33

B.L  $4.8 \times 10^{-9}$

B.P  $2.0 \times 10^{-2}$

finish 7:33

B.L  $\rightarrow$  Maximum

$2.8 \times 10^{-2}$  torr

In 10 seconds

H/S 2 2013-08-28

start 07:16

B.L  $3.5 \times 10^{-5}$

B.P.  $1.2 \times 10^{-2}$

finish 07:16

B.L  $\rightarrow$  Maximum

B.P  $1.3 \times 10^{-2}$

In 5 seconds

After venting helium  
the leak rate back  
to  $5 \times 10^{-5}$