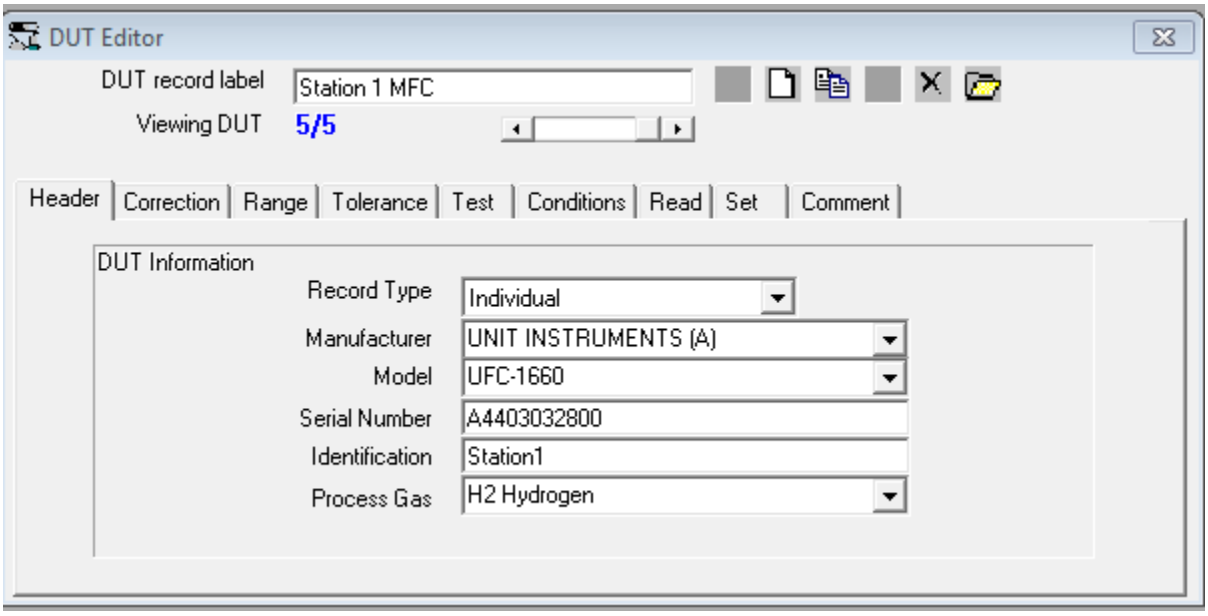
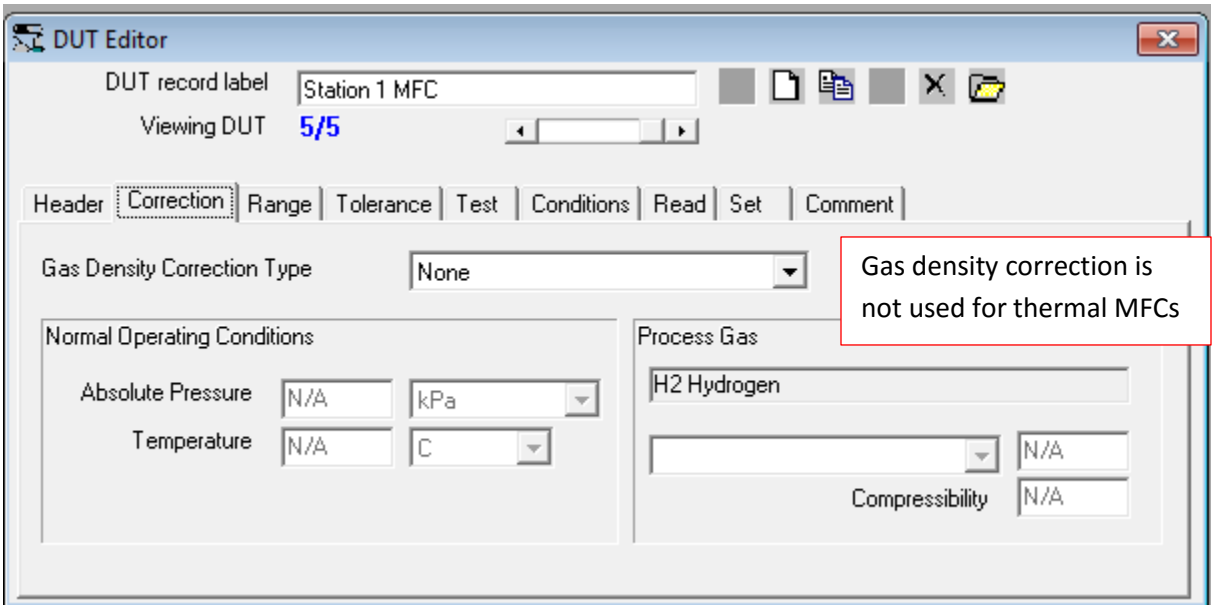
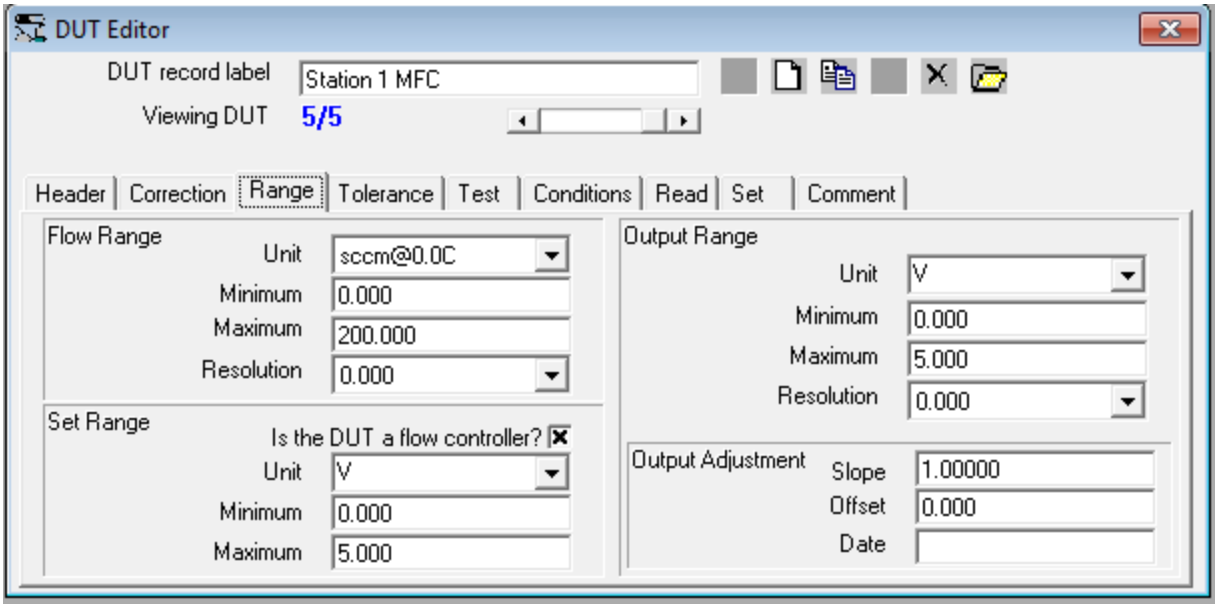
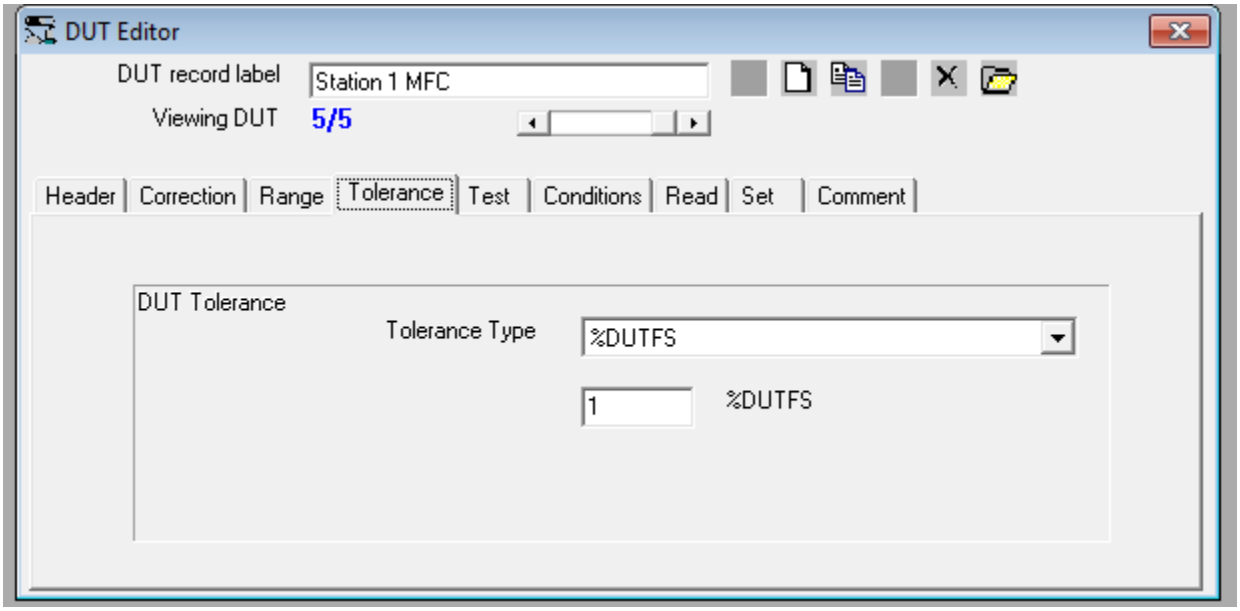
Flow Training Class Station 1 COMPASS for molbox Setup

DUT Setup - 200 sccm hydrogen MFC, calibrate in nitrogen. K-factor =1.024

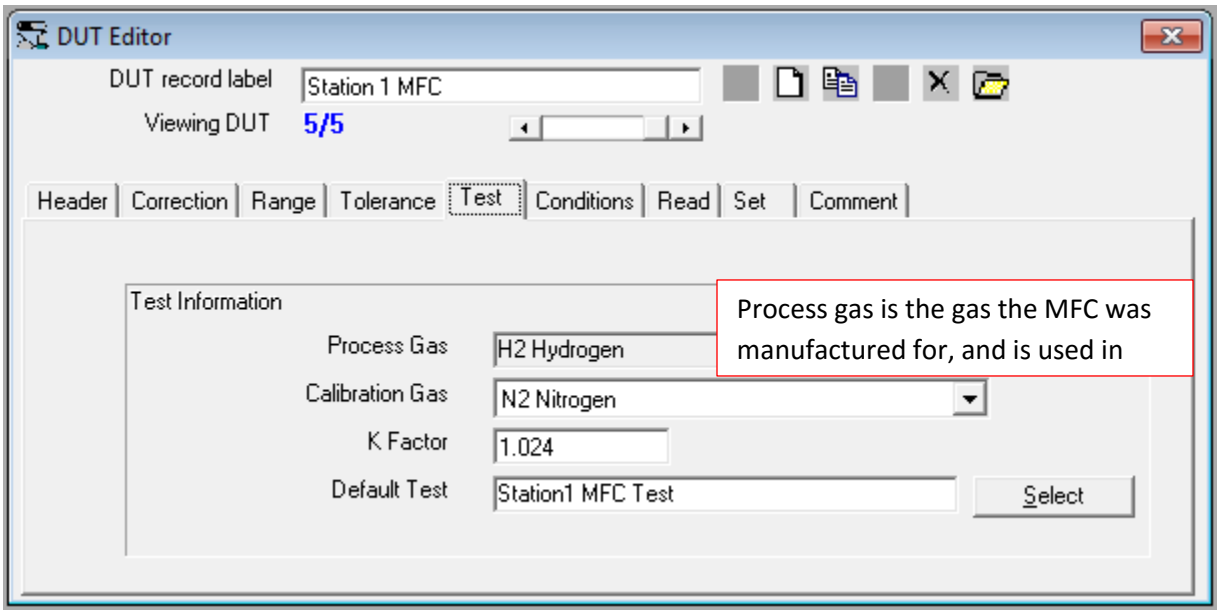


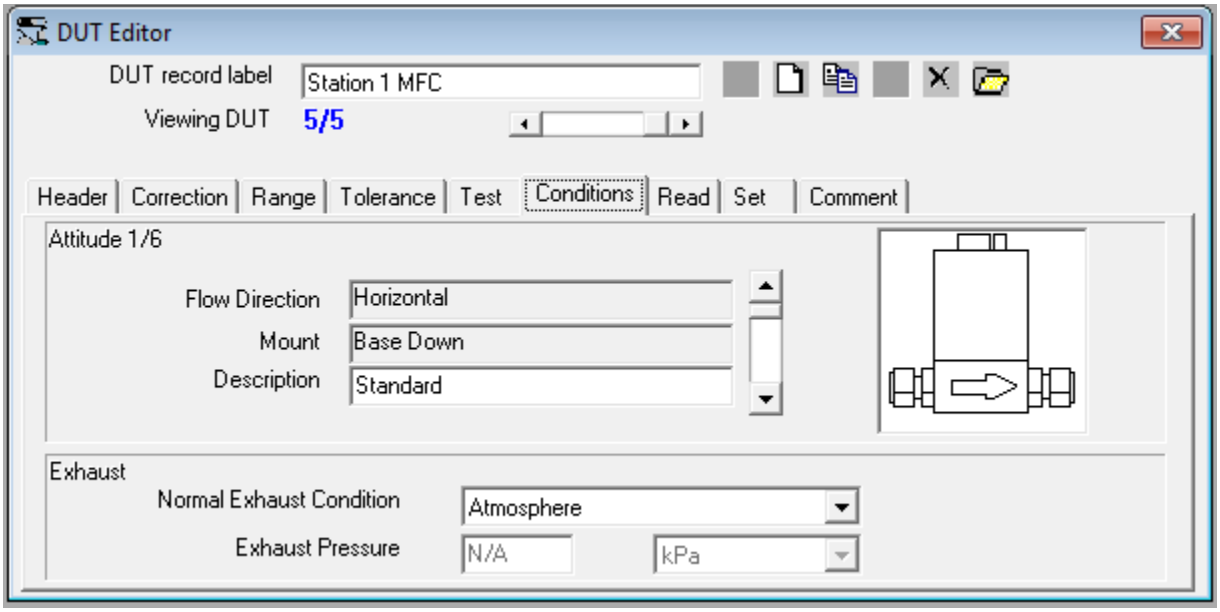


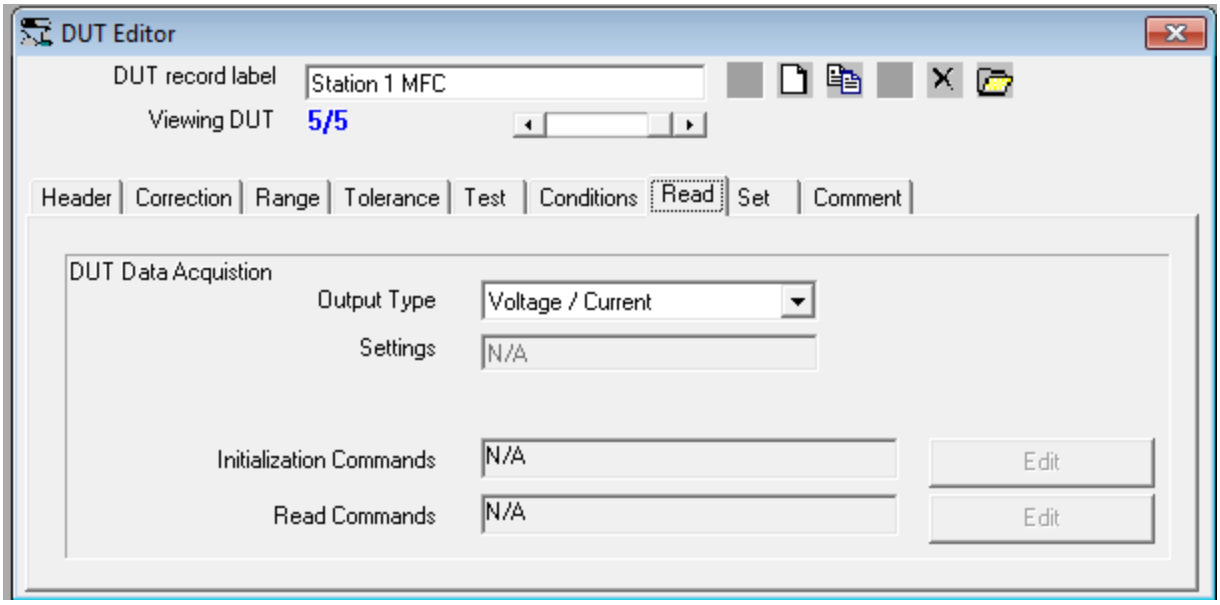

DUT Editor
DUT record label
Station 1 MFC
Viewing DUT
5/5
Header
Correction
Range
Tolerance
Test
Conditions
Read
Set
Comment
Flow Range
Unit
sccm@0.0C
Minimum
0.000
Maximum
200.000
Resolution
0.000
Set Range
Is the DUT a flow controller?
Unit
V
Minimum
0.000
Maximum
5.000
Output Range
Unit
V
Minimum
0.000
Maximum
5.000
Resolution
0.000
Output Adjustment
Slope
1.00000
Offset
0.000
Date

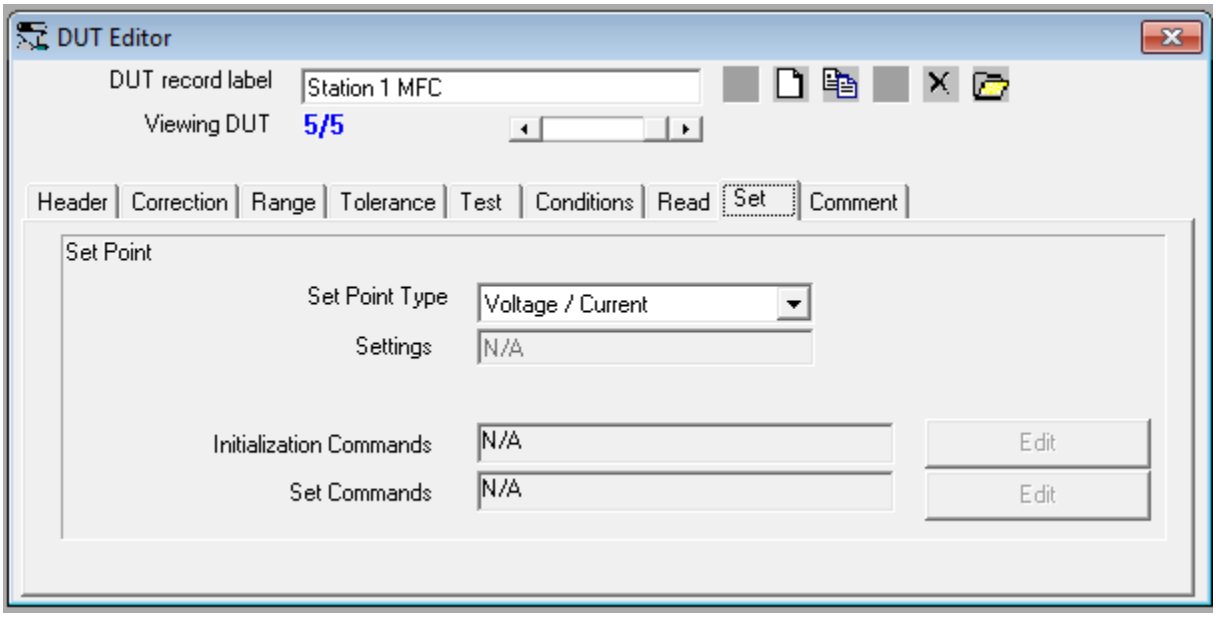

DUT Editor
DUT record label
Station 1 MFC
Viewing DUT
5/5
Header
Correction
Range
Tolerance
Test
Conditions
Read
Set
Comment
DUT Tolerance
Tolerance Type
%DUTFS
1
%DUTFS

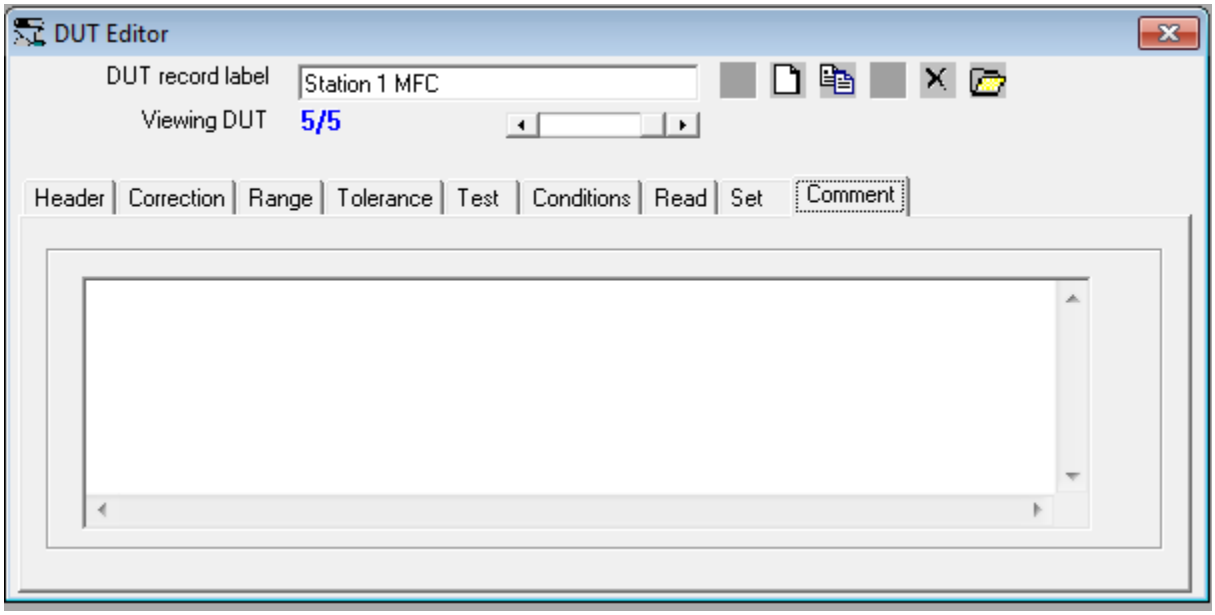
1.024 K-factor is from Process Gas Editor for this MFC.






DUT Editor
DUT record label
Station 1 MFC
Viewing DUT
5/5
Header
Correction
Range
Tolerance
Test
Conditions
Read
Set
Comment
DUT Data Acquistion
Output Type
Voltage / Current
Settings
N/A
Initialization Commands
N/A
Edit
Read Commands
N/A
Edit

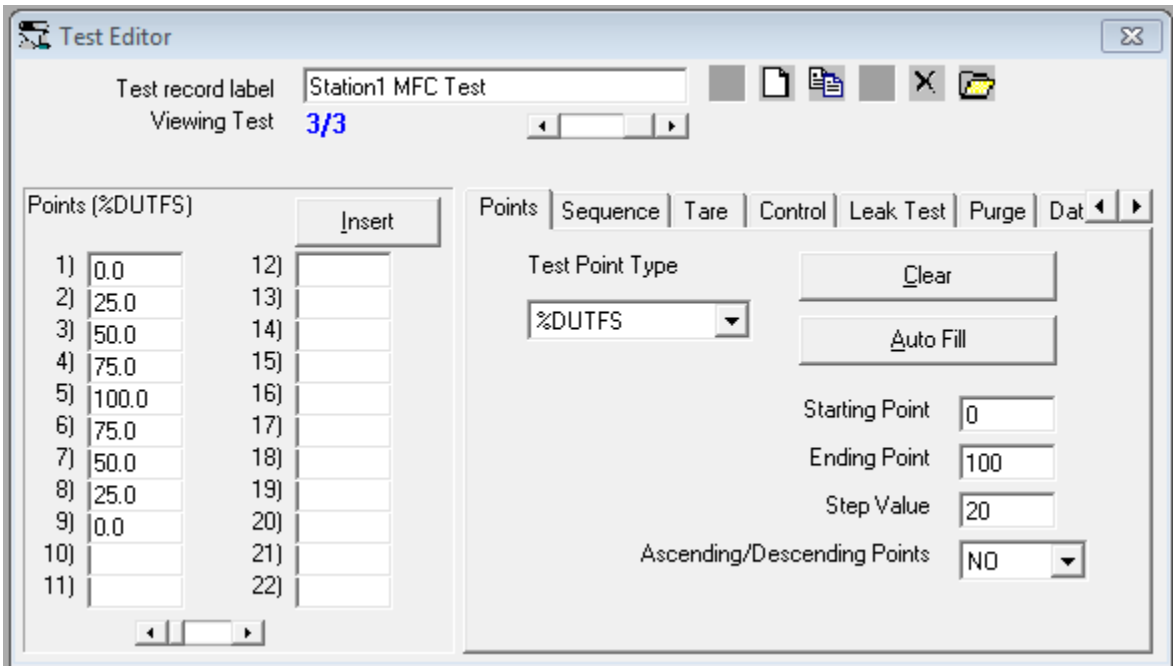

DUT Editor
DUT record label
Station 1 MFC
Viewing DUT
5/5
Header
Correction
Range
Tolerance
Test
Conditions
Read
Set
Comment
Set Point
Set Point Type
Voltage / Current
Settings
N/A
Initialization Commands
N/A
Edit
Set Commands
N/A
Edit

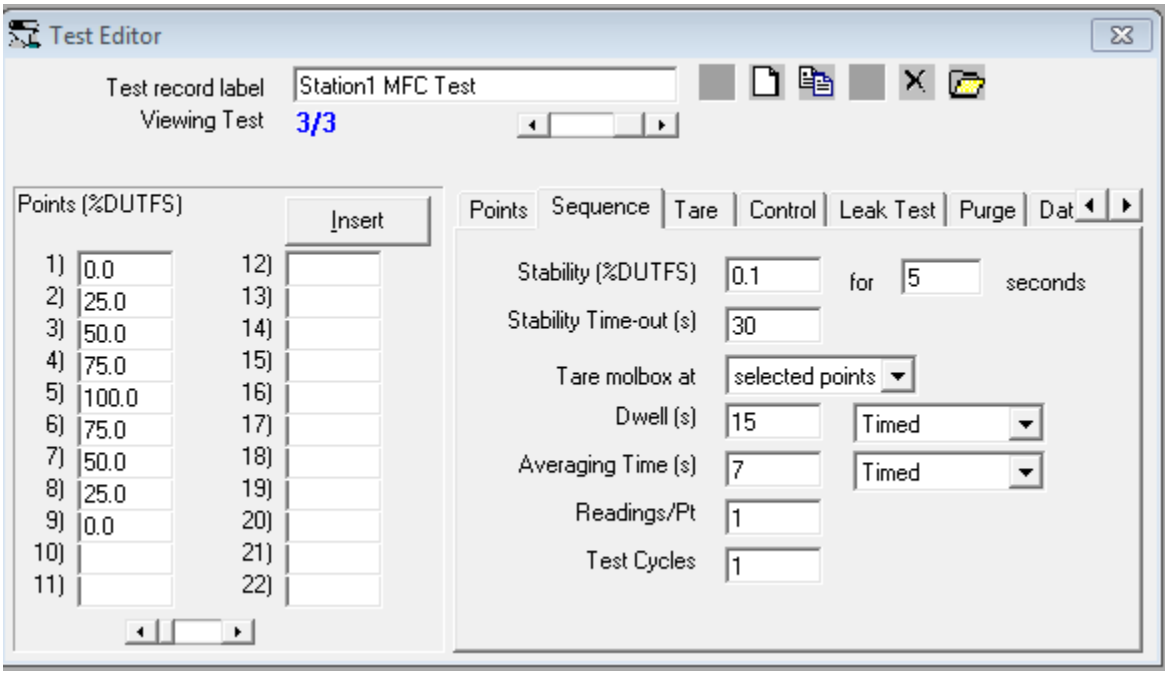

DUT Editor
DUT record label
Station 1 MFC
Viewing DUT
5/5
Header
Correction
Range
Tolerance
Test
Conditions
Read
Set
Comment

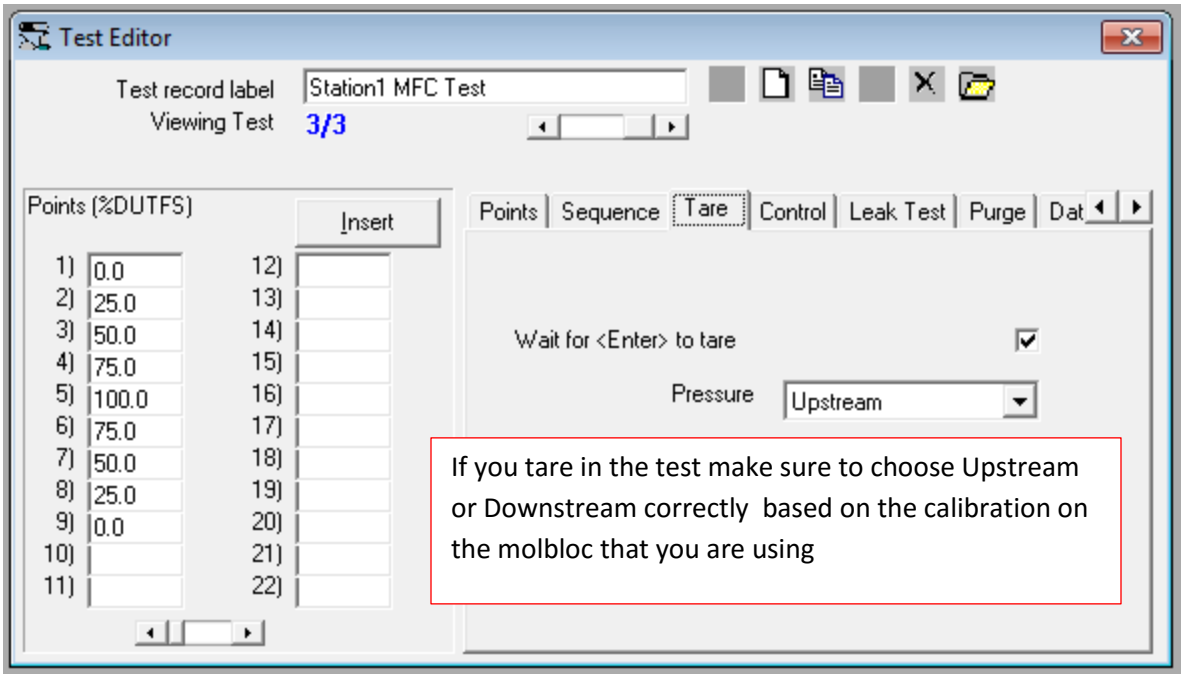
Flow Training Class Station 1 COMPASS for molbox Setup

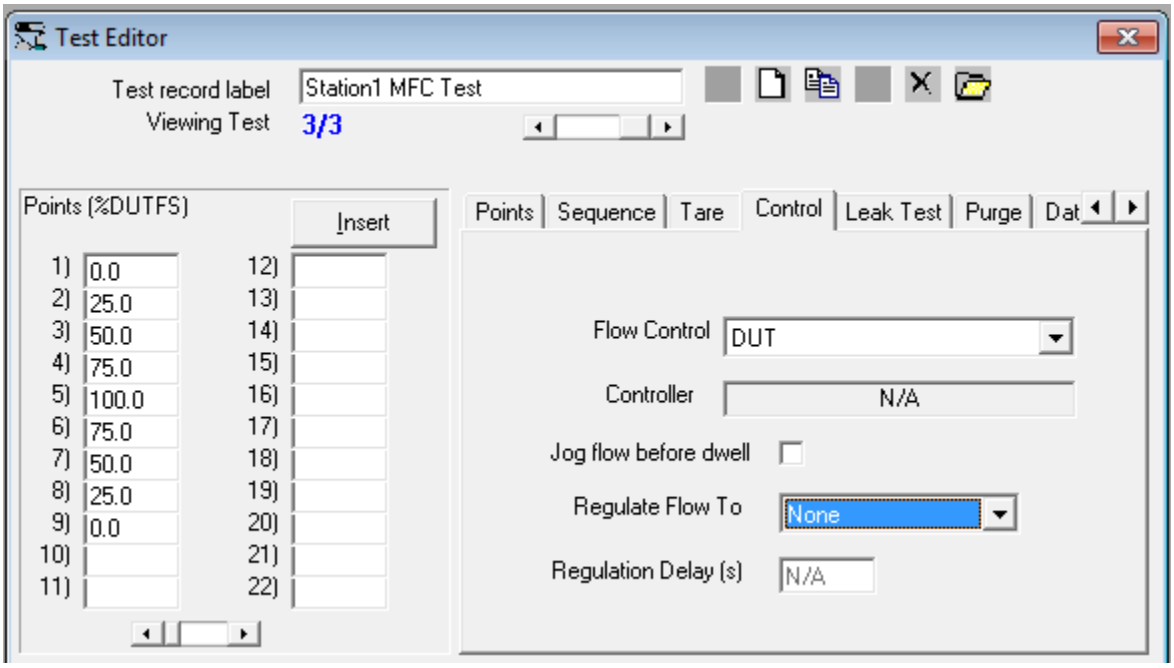
Test Setup for 200 sccm MFC, used in H2, Cal in N2

Will do any leak testing and purging, and will tare before running the COMPASS test. See quick-start guides.

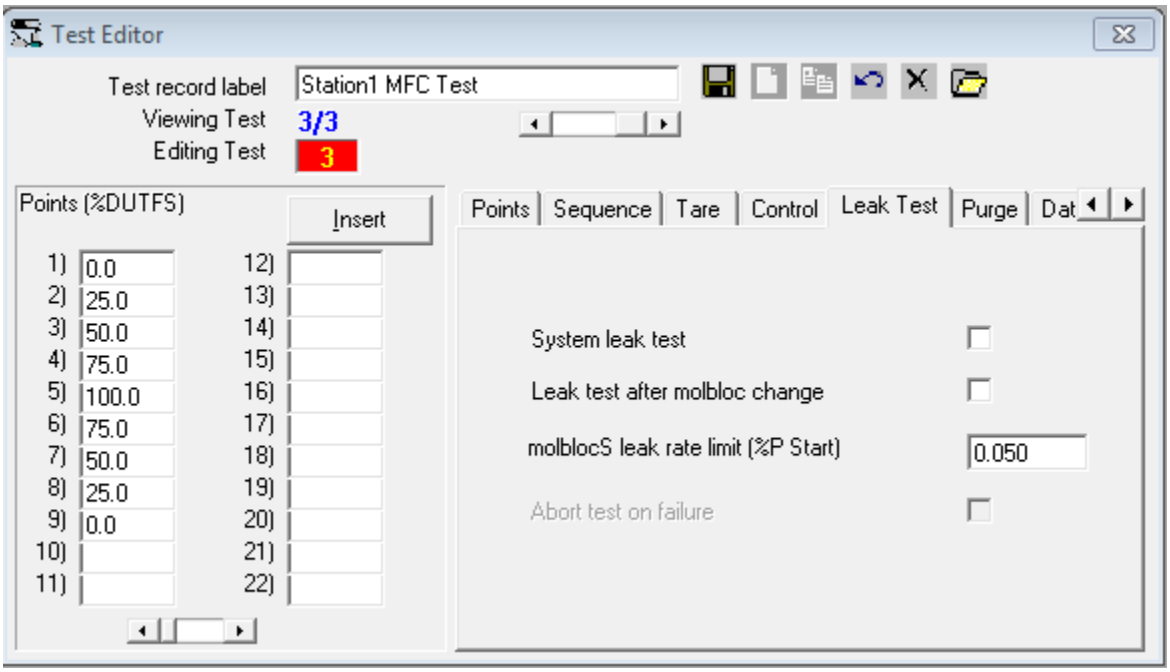


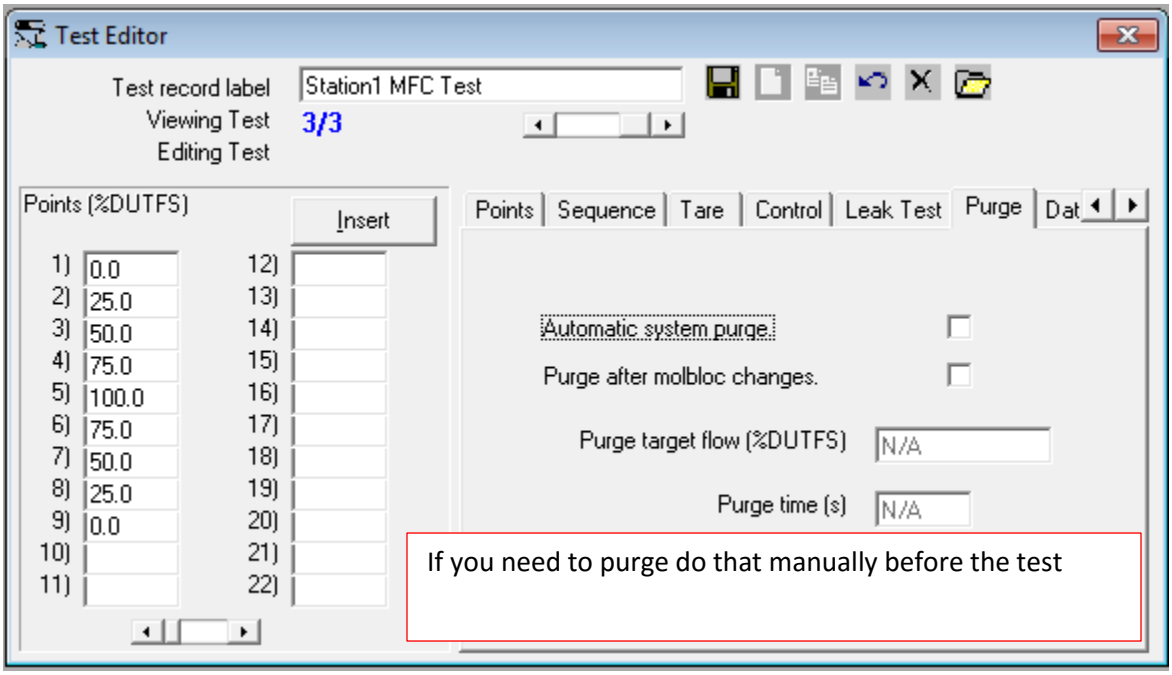


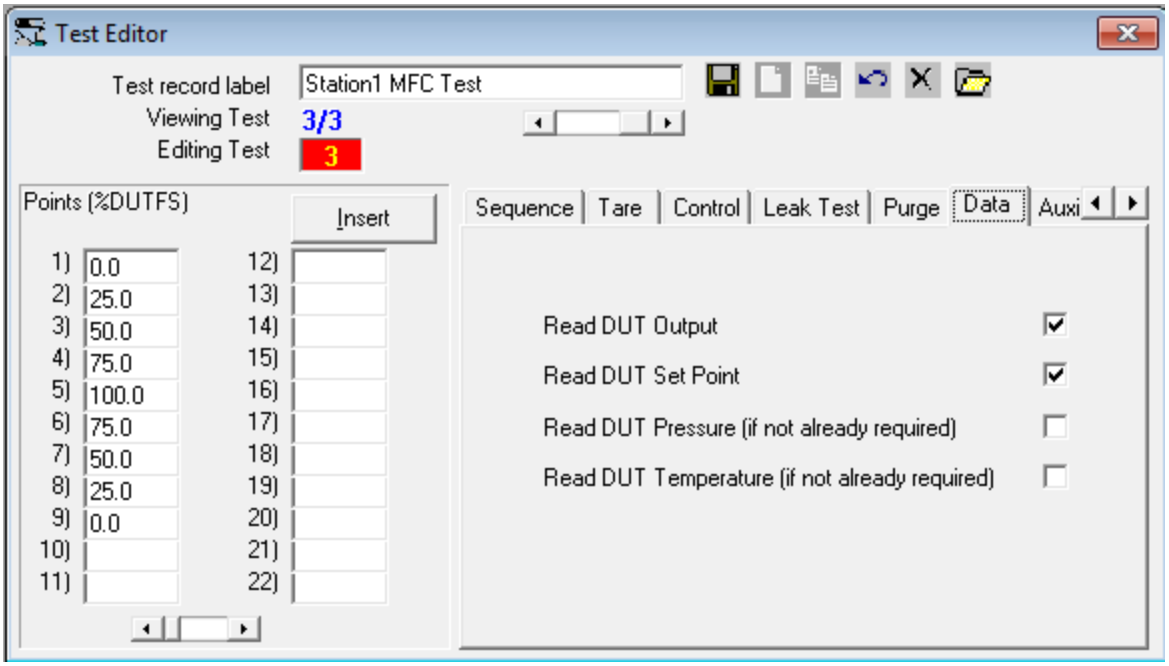

Test Editor
Test record label
Station1 MFC Test
Viewing Test
3/3
Points (%DUTFS)
Insert
1) 0.0
2) 25.0
3) 50.0
4) 75.0
5) 100.0
6) 75.0
7) 50.0
8) 25.0
9) 0.0
10)
11)
12)
13)
14)
15)
16)
17)
18)
19)
20)
21)
22)
Points
Sequence
Tare
Control
Leak Test
Purge
Dat
Wait for <Enter> to tare
Pressure
Upstream
If you tare in the test make sure to choose Upstream or Downstream correctly based on the calibration on the molbloc that you are using

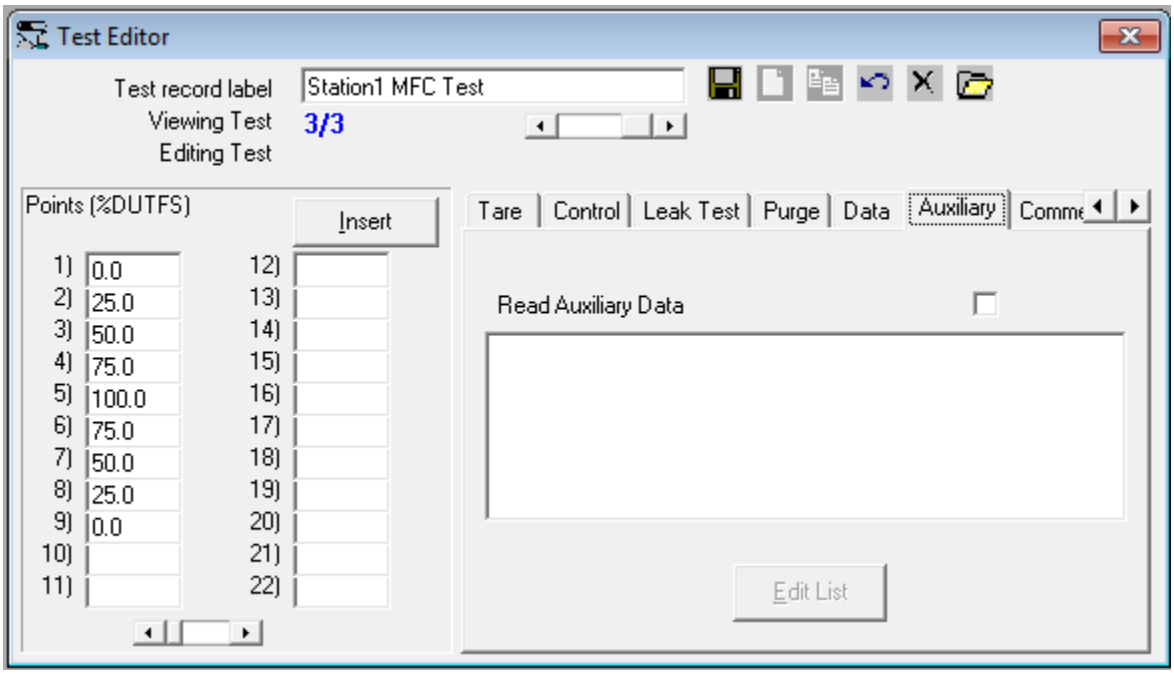

Test Editor
Test record label
Station1 MFC Test
Viewing Test
3/3
Points (%DUTFS)
Insert
1) 0.0
2) 25.0
3) 50.0
4) 75.0
5) 100.0
6) 75.0
7) 50.0
8) 25.0
9) 0.0
10)
11)
12)
13)
14)
15)
16)
17)
18)
19)
20)
21)
22)
Points
Sequence
Tare
Control
Leak Test
Purge
Dat
Flow Control
DUT
Controller
N/A
Jog flow before dwell
Regulate Flow To
None
Regulation Delay (s)
N/A

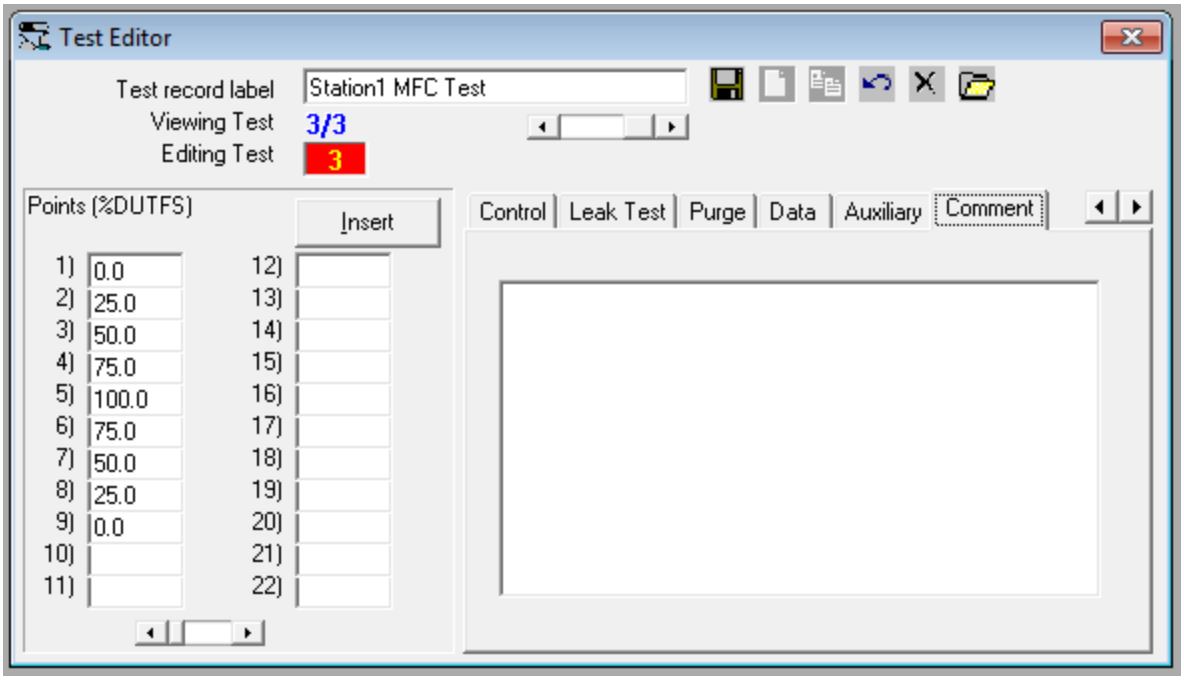
We leak tested and purged manually before the test.






Test Editor
Test record label
Station1 MFC Test
Viewing Test
3/3
Editing Test
3
Points (%DUTFS)
Insert
1) 0.0
2) 25.0
3) 50.0
4) 75.0
5) 100.0
6) 75.0
7) 50.0
8) 25.0
9) 0.0
10)
11)
12)
13)
14)
15)
16)
17)
18)
19)
20)
21)
22)
Sequence
Tare
Control
Leak Test
Purge
Data
Auxi
Read DUT Output
Read DUT Set Point
Read DUT Pressure (if not already required)
Read DUT Temperature (if not already required)


Test Editor
Test record label
Station1 MFC Test
Viewing Test
3/3
Editing Test
Points (%DUTFS)
Insert
1) 0.0
2) 25.0
3) 50.0
4) 75.0
5) 100.0
6) 75.0
7) 50.0
8) 25.0
9) 0.0
10)
11)
12)
13)
14)
15)
16)
17)
18)
19)
20)
21)
22)
Tare
Control
Leak Test
Purge
Data
Auxiliary
Comme
Read Auxiliary Data
Edit List

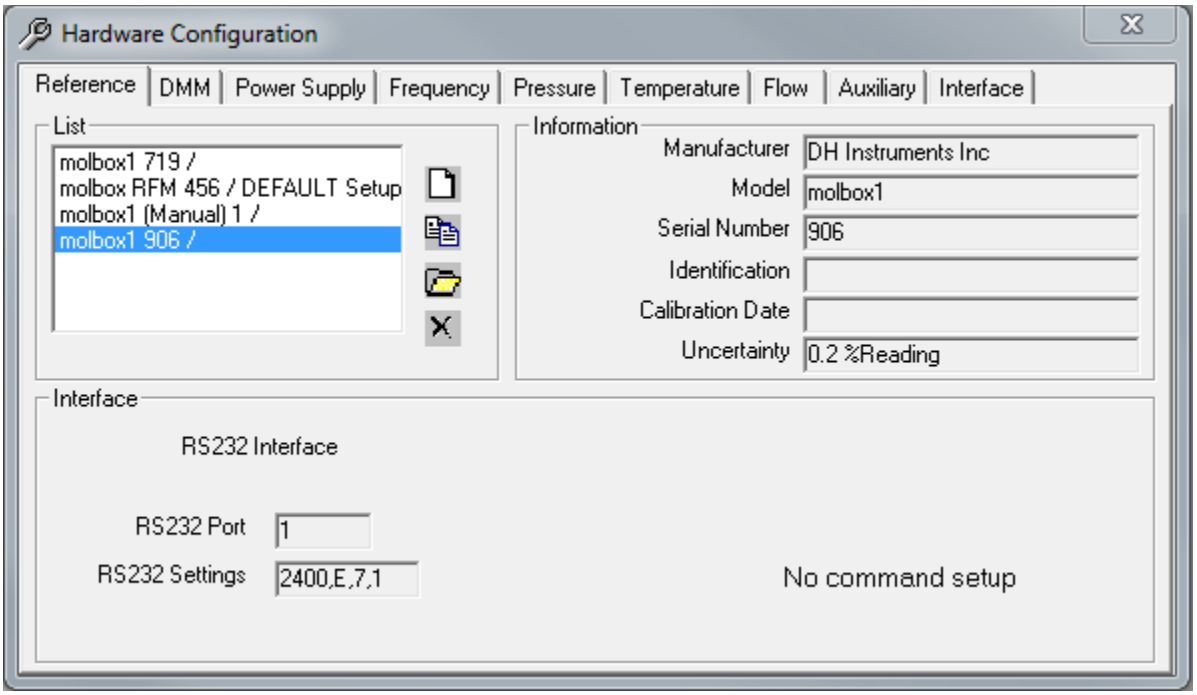

Test Editor
Test record label
Station1 MFC Test
Viewing Test
3/3
Editing Test
3
Points (%DUTFS)
Insert
1) 0.0
2) 25.0
3) 50.0
4) 75.0
5) 100.0
6) 75.0
7) 50.0
8) 25.0
9) 0.0
10)
11)
12)
13)
14)
15)
16)
17)
18)
19)
20)
21)
22)
Control
Leak Test
Purge
Data
Auxiliary
Comment

Flow Training Class Station 1 COMPASS for molbox Setup

Hardware and System setup for 200 sccm@0C MFC, for use with hydrogen, calibrate in nitrogen

[Setup], <Hardware> window. “Reference” tab

Reference device setup that is a molbox1+ flow terminal. You don’t need to setup or enter the commands because COMPASS knows them.



[Setup], <System> window

Read and set DUT through MFC circuit of reference molbox1. Change these to appropriate MFC-CB channel if using MFC-CB.