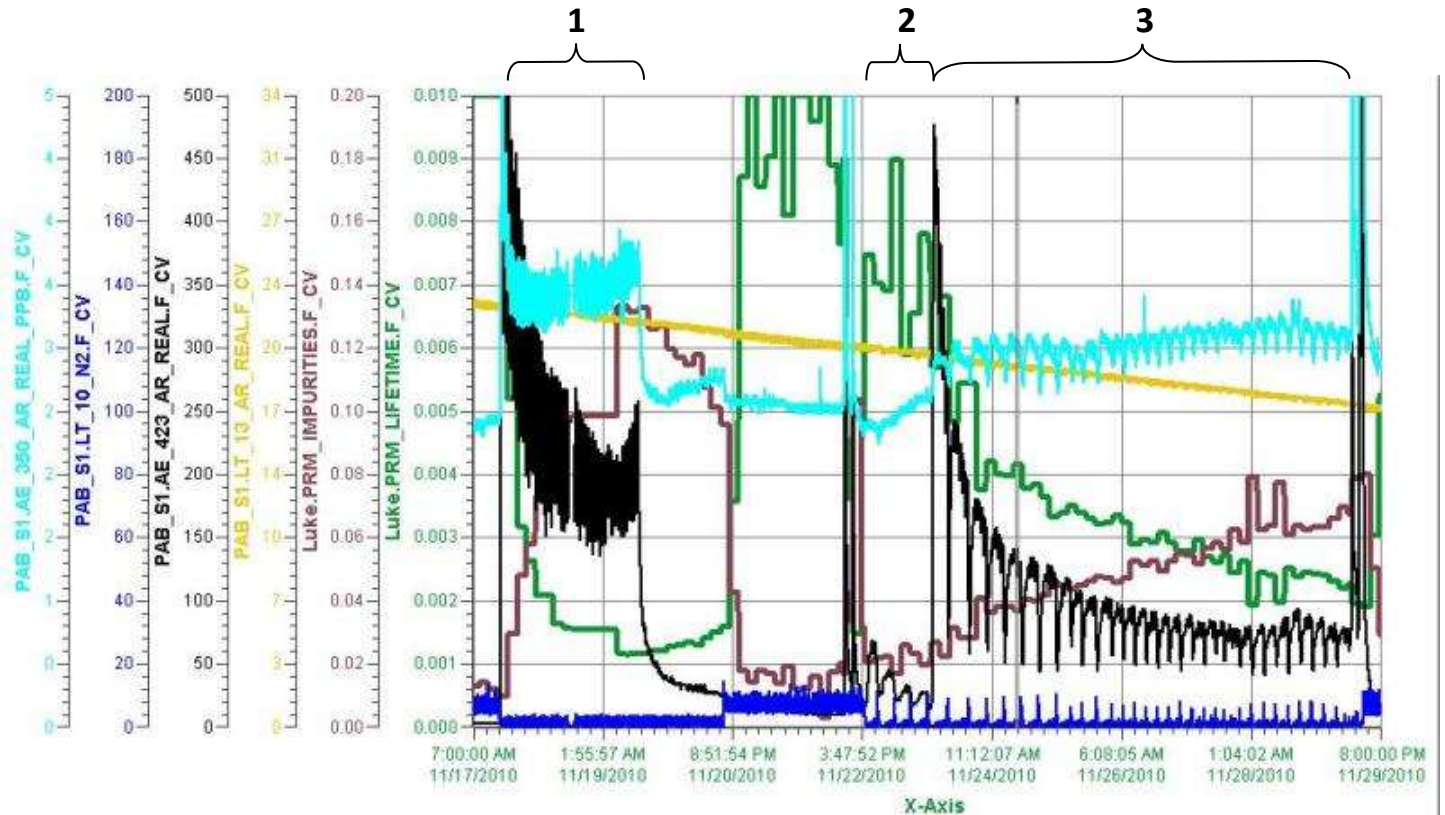


FR4 Test 11/16/2010 – 11/29/2010

This sample wasn't baked.

<i>PAB Materials Test System</i>	
Date of Receipt	11/30/10 , logbook entry # 1429
Sample Name/Description	FR4 , 4 plates
Sample	
Composition:	FR4 - glass reinforced epoxy laminate(woven fiberglass cloth with an epoxy resin)
Picture Location:	data base
Weight:	54 g
Dimensions/Area:	4 pieces 104 x 130 mm, total area: 0.11 m2
Source:	Stephen Pordes
Preparation:	cleaned - wiped
Submerging in LAr or LH2	no
Time in the airlock(hrs)	
Purge:	24 h purged from the bottle and 1 h from Luke
Vacuum:	
Room Temperature	
Start Time/Date, End Time/Date :	11/17/10 3:40 pm, 11/19/10 1:55 pm
PrM run # :	10540
Condenser state:	on
Filter state:	off
O2 reading:	increased by 1 ppb
H2O reading:	500 ppb in first hour, then decreased to 150-220 ppb
Lifetime:	decreased to < 2 ms in 16 h , after 46 h was 1.1 ms
Liquid Test	
Start Time/Date, End Time/Date :	11/22/10 4:45 pm, 11/23/10 2:45 pm
PrM run # :	10586
Condenser state:	on
Filter state/settings:	off
O2 reading:	no increase
H2O reading:	increased to 67 ppb in first few hours, then dropped to 15-25 ppb
Temperature:	95 K
Lifetime:	> 6 ms
Liquid level	20.5" to 20"
Vapor Test	
Start Time/Date, End Time/Date :	11/23/10 2:45 pm, 11/29/10 10:30 am
PrM run # :	10595
Condenser state:	on
Filter state/settings:	off
O2 reading:	increased by 0.3-0.5 ppb
H2O reading:	increased to 400 ppb in first 2 hours, then dropped to 40-90 ppb
Temperature:	220 K
Lifetime:	2-3 ms
Liquid level	20" to 17.5"

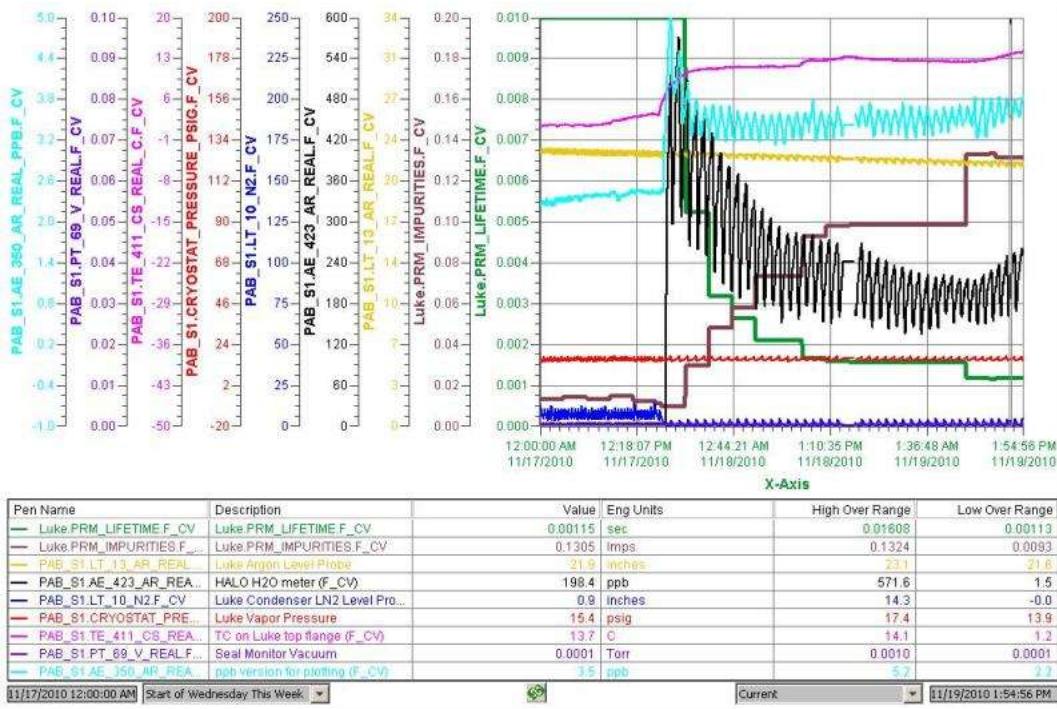
1. Room temperature test.
2. Liquid test.
3. Vapor test.



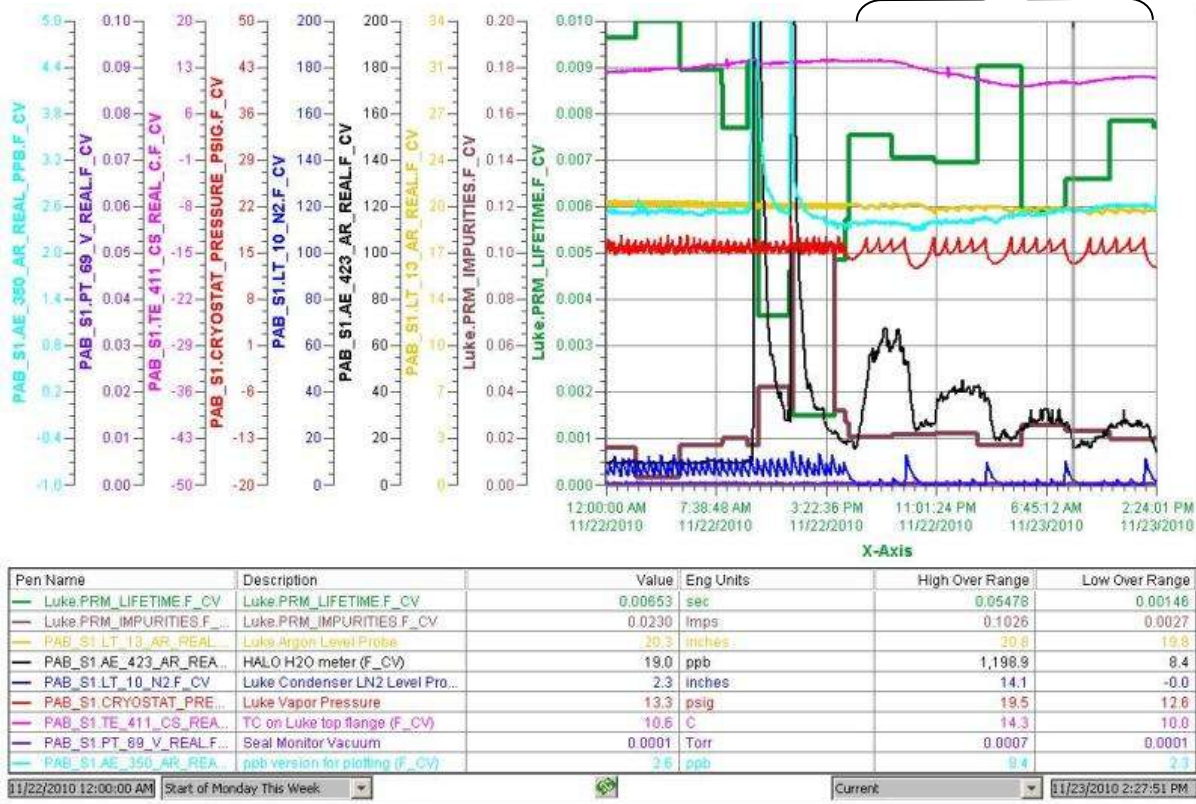
Pen Name	Description	Value	Eng Units	High Over Range	Low Over Range
— Luke.PRM_LIFETIME.F_CV	Luke.PRM_LIFETIME.F_CV	0.00414	sec	0.05478	0.00113
— Luke.PRM_IMPURITIES.F_CV	Luke.PRM_IMPURITIES.F_CV	0.0363	Imps	0.1324	0.0027
— PAB_S1_LT_13_AR_REAL	Luke Argon Level Probe	19.5	inches	22.9	17.0
— PAB_S1_AE_423_AR_REAL	HALO H2O meter (F_CV)	132.0	ppb	1,645.3	1.5
— PAB_S1_LT_10_N2_F_CV	Luke Condenser LN2 Level Pro...	-0.0	inches	14.3	-0.0
— PAB_S1_AE_350_AR_REAL	ppb version for plotting (F_CV)	3.0	ppb	42.9	2.2

11/17/2010 7:00:00 AM 11/29/2010 8:00:00 PM

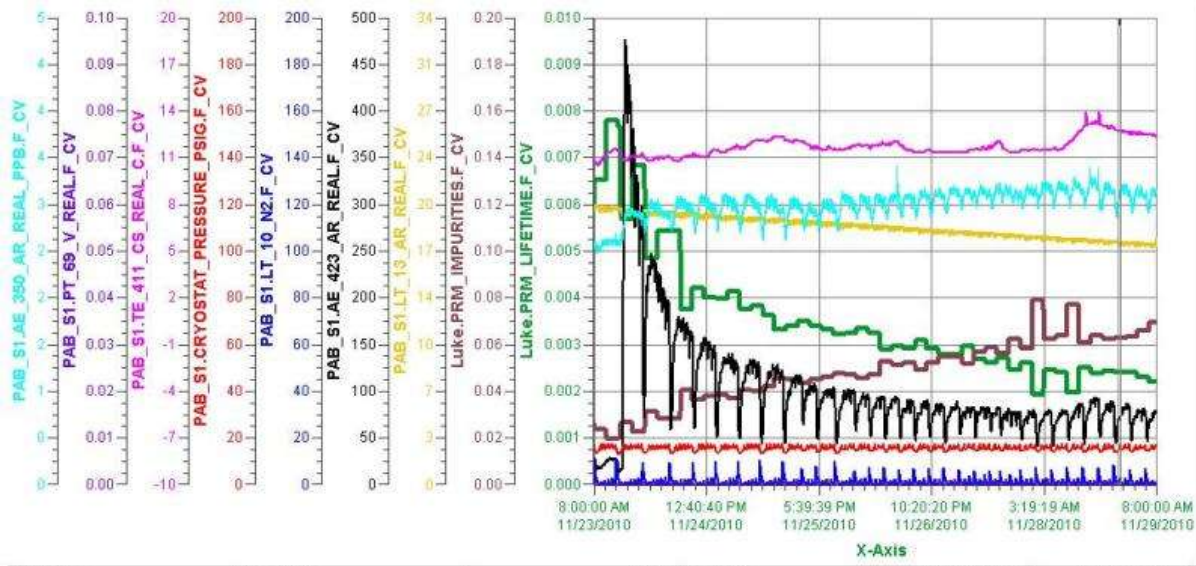
1. Room temperature test.



2. Liquid test.



3. Vapor test.



Pen Name	Description	Value	Eng Units	High Over Range	Low Over Range
Luke.PRM_LIFETIME.F_CV	Luke.PRM_LIFETIME.F_CV	0.00240	sec	0.00780	0.00191
Luke.PRM_IMPURITIES.F_CV	Luke.PRM_IMPURITIES.F_CV	0.0625	imps	0.0786	0.0192
PAB_S1_LT_13_AR_REAL_F_CV	Luke Argon Level Probe	17.6	inches	20.3	17.3
PAB_S1_AE_423_AR_REAL_F_CV	HALO H2O meter (F_CV)	69.5	ppb	476.9	12.2
PAB_S1_LT_10_N2_F_CV	Luke Condenser LN2 Level Pro...	-0.0	inches	11.3	-0.0
PAB_S1_CRYOSTAT_PRE...	Luke Vapor Pressure	14.7	psig	17.3	12.8
PAB_S1_TE_411_CS_REA...	TC on Luke top flange (F_CV)	12.7	C	14.0	10.5
PAB_S1_PT_69_V_REAL_F_CV	Seal Monitor Vacuum	0.0002	Torr	0.0007	0.0001
PAB_S1_AE_350_AR_REA...	ppb version for plotting (F_CV)	3.05	ppb	3.42	2.47

11/23/2010 8:00:00 AM 11/29/2010 8:00:00 AM



