

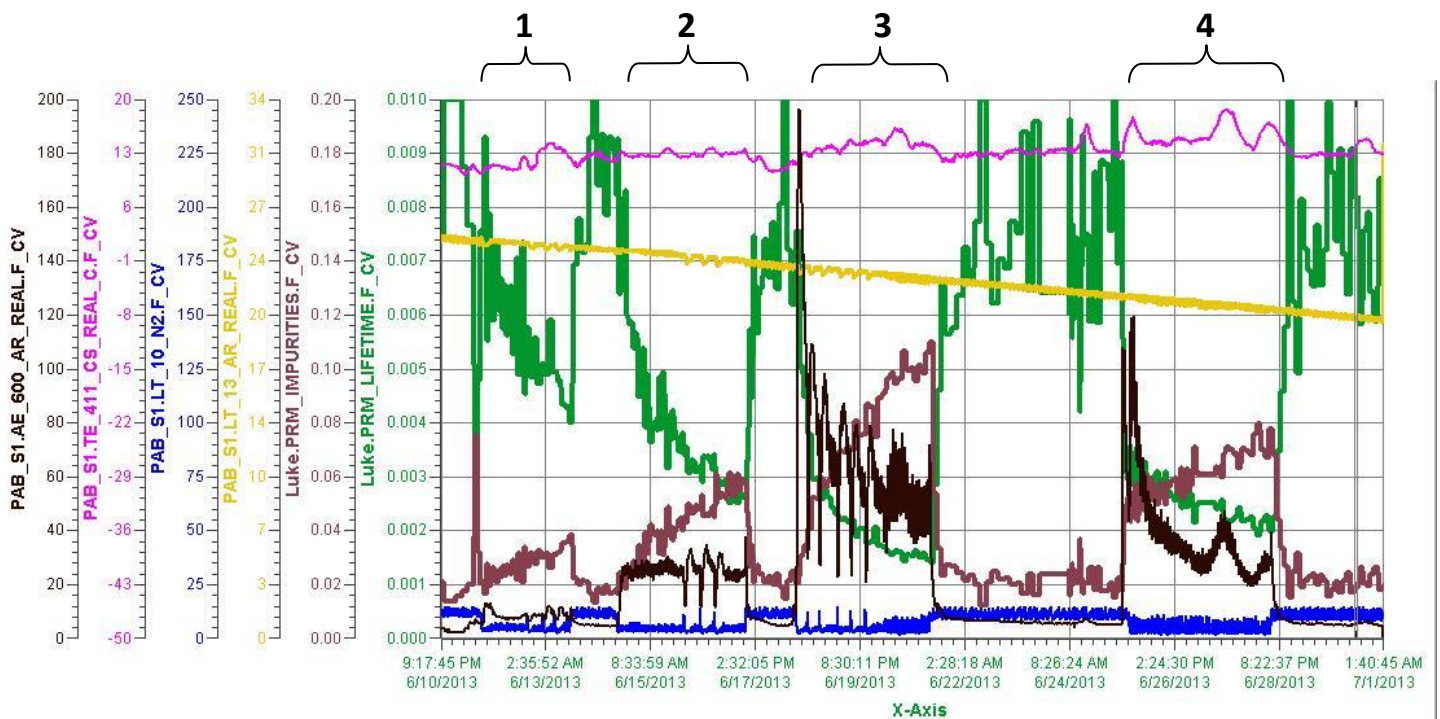
Acrylic/Bis-MSB Test 6/11/2013 – 6/28/2013

PAB Materials Test System	
Date of Receipt	7/1/2013, logbook entry #3839
Sample Name/Description	Acrylic coated with Bis-MSB
Sample	
Composition:	acrylic coated with Bis-MSB
Picture Location:	data base
Density:	x
Weight:	12.8 g
Dimensions/Area:	7.5 cm x 2.5 cm x 0.5cm
Source:	Russ Rucinski
Preparation:	used pressured air, handled with gloves
Time in the airlock(hrs)	
Purge:	20 hrs from bottle, 3 hrs from Luke
Vacuum:	x
Liquid Test	
Start Time/Date, End Time/Date :	6/11/2013 5:30 pm, 6/13/2013 3pm
PrM run # :	17793
Condenser state:	on
Filter state:	off
O2 reading:	x
H2O reading:	stabilized in 6-8 ppb range
Temperature:	95 K
Lifetime:	slowly decreased to 4-5 ms
Liquid level :	started at 25.2 inches ended at 24.6 inches
Vapor Test	
Start Time/Date, End Time/Date :	6/14/13 3 pm, 6/17/13 10 am
PrM run # :	17840
Condenser state:	on
Filter state:	off
O2 reading:	x
H2O reading:	increased to 20-25 ppb
Temperature:	212 -215 K
Lifetime:	decreased to a minimum of 2.5 ms.
Liquid level :	started at 24.5 inches ended at 23.6 inches
Room Temperature Test	
Start Time/Date, End Time/Date :	6/17/13 11:30 am, 6/21/13 8:30 am
PrM run # :	17923
Condenser state:	on
Filter state/settings:	off
O2 reading:	x
H2O reading:	increased from 5 to 190 ppb in 2 hours, then dropped to stay in 40-60 ppb range.
Lifetime:	dropped from 7 ms to 3 ms in first 8 hours, slowly stabilized 1.4-1.6 ms range.

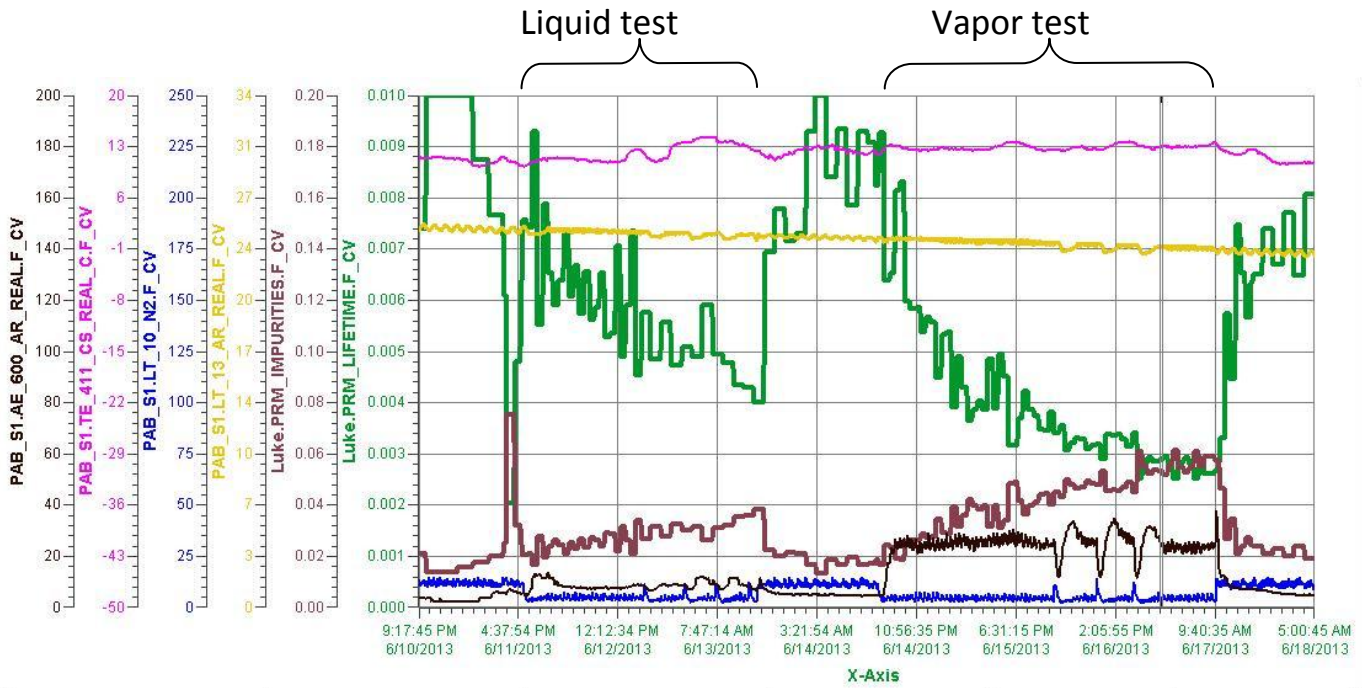
Liquid level :	started at 23.4 inches ended at 22.5 inches
Zero Test (room temperature)	6/25/2013
H2O reading:	increased from 5 to 120 ppb in 2 hours, then dropped to stay in 20-40 ppb
Lifetime:	dropped fast to 3 ms, then stabilized in 2-2.5 ms range.



1. Liquid Test.
2. Vapor Test.
3. Room Temperature Test
4. Zero Test

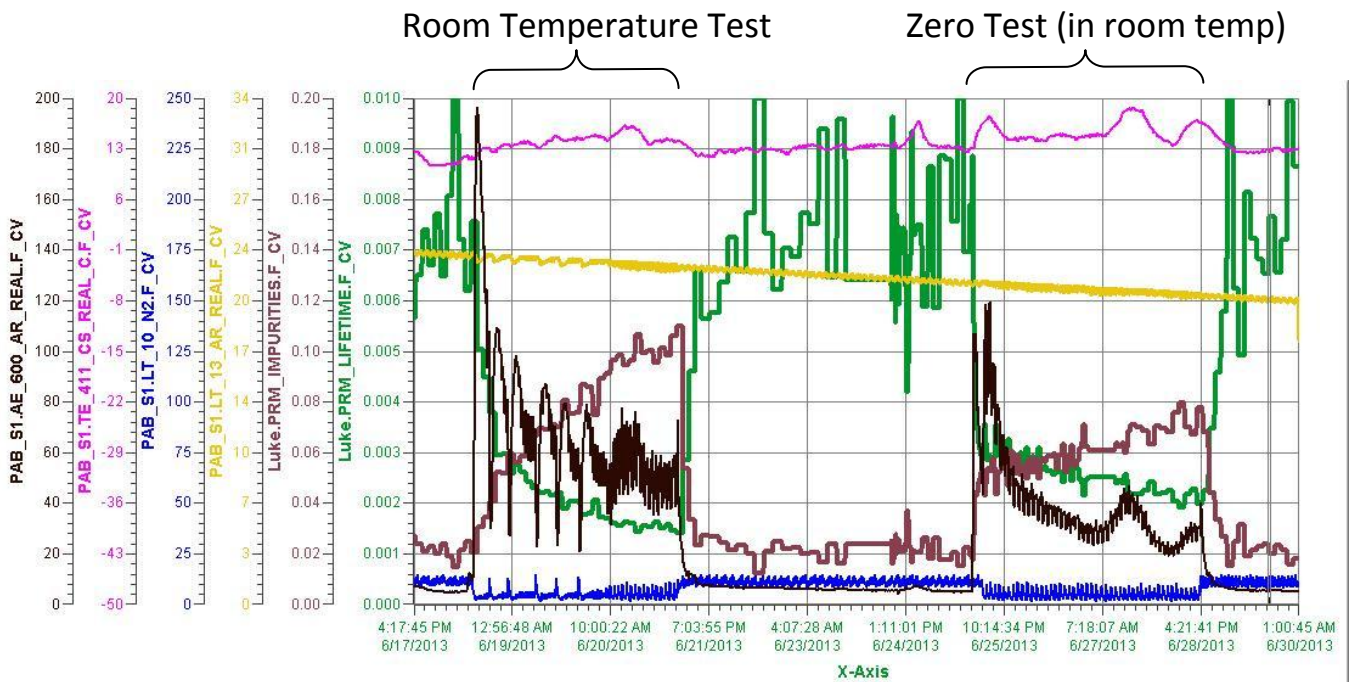


Pen Name	Description	Value	Eng Units	High Over Range	Low Over Range
— Luke PRM_LIFETIME.F_CV	Luke PRM_LIFETIME.F_CV	0.00814	sec	0.01277	0.00137
— Luke PRM_IMPURITIES.F_CV	Luke PRM_IMPURITIES.F_CV	0.0184	Imps	0.1093	0.0117
— PAB_S1_LT_13_AR_REAL.F_CV	Luke Argon Level Probe	20.2	inches	31.2	19.9
— PAB_S1_LT_10_N2.F_CV	Luke Condenser LN2 Level Probe (F_CV)	12.1	inches	14.5	1.2
— PAB_S1_TE_411_CS_REAL.F_CV	TC on Luke top flange (F_CV)	13.7	C	18.7	10.2
— PAB_S1_AE_600_AR_REAL.F_CV	Luke Halo (F_CV)	4.8	ppb	196.4	-1.8



Pen Name	Description	Value	Eng Units	High Over Range	Low Over Range
— Luke.PRM_LIFETIME.F_CV	Luke.PRM_LIFETIME.F_CV	0.00285	sec	0.01181	0.00201
— Luke.PRM_IMPURITIES.F_CV	Luke.PRM_IMPURITIES.F_CV	0.0527	Imps	0.0745	0.0127
— PAB_S1.LT_13.AR.REAL.F_CV	Luke Argon Level Probe	24.0	inches	25.4	23.3
— PAB_S1.LT_10.N2.F_CV	Luke Condenser LN2 Level Probe (F_CV)	4.1	inches	14.5	1.5
— PAB_S1.TE_411.CS.REAL.CF_CV	TC on Luke top flange (F_CV)	12.8	C	14.4	10.2
— PAB_S1.AE_600.AR.REAL.F_CV	Luke Halo (F_CV)	23.2	ppb	37.3	1.8

6/10/2013 9:17:45 PM 6/18/2013 5:00:45 AM



Pen Name	Description	Value	Eng Units	High Over Range	Low Over Range
— Luke.PRM_LIFETIME.F_CV	Luke.PRM_LIFETIME.F_CV	0.00683	sec	0.01277	0.00137
— Luke.PRM_IMPURITIES.F_CV	Luke.PRM_IMPURITIES.F_CV	0.0221	Imps	0.1093	0.0117
— PAB_S1.LT_13.AR.REAL.F_CV	Luke Argon Level Probe	20.3	inches	23.7	17.7
— PAB_S1.LT_10.N2.F_CV	Luke Condenser LN2 Level Probe (F_CV)	11.4	inches	14.5	1.2
— PAB_S1.TE_411.CS.REAL.CF_CV	TC on Luke top flange (F_CV)	12.9	C	18.6	10.6
— PAB_S1.AE_600.AR.REAL.F_CV	Luke Halo (F_CV)	4.9	ppb	196.4	3.2

6/17/2013 4:17:45 PM 6/30/2013 1:00:45 AM