

Protocol #: 9

LEAK TEST B

User : CPL Whi

Time: 10.00

Data Mode: Dual DPM

Nuclides: 3H-14C-UG

Quench Sets

Sigma Coincidence On

Low Energy: 3H-UG

Background Subtract: None

High Energy: 14C-UG

	LL	UL	LCR	25%	BKG
Region A:	0.0 - 18.6		0	0.0	0.00
Region B:	18.6 - 156		0	0.0	0.00
Region C:	156 - 2000		0	0.0	0.00

Quench Indicator: tSIE/AEC

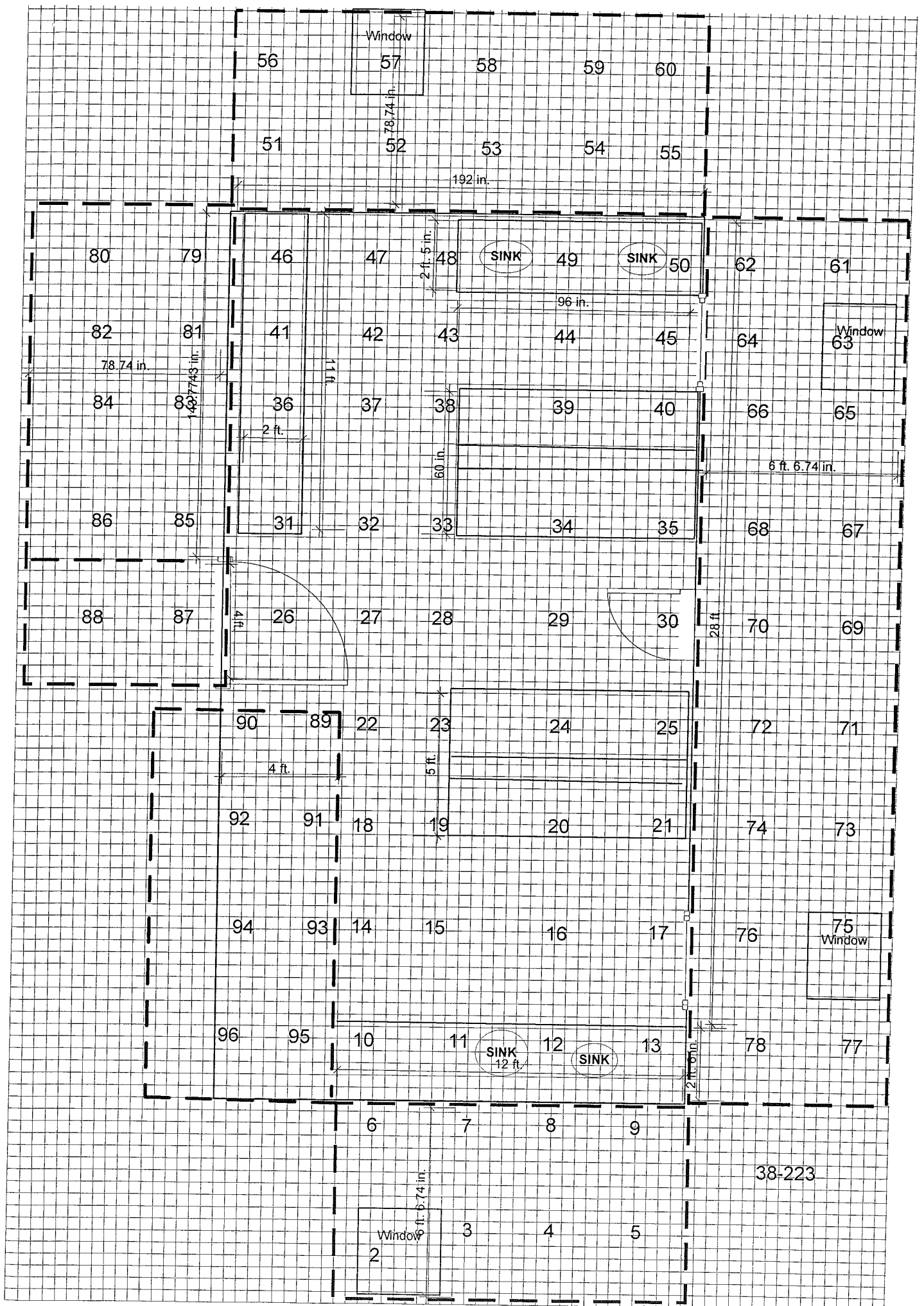
Ext Std Terminator: Count

3H, 14C, ?

Coincidence Time(ns): 18

Delay Before Burst(ns): 75

S#	TIME	CPMA A:25%	CPMB B:25%	CPMC	DPM1	DPM2	tSIE	FLP2
1	10.00	4.06 31.38	5.88 26.07	3.96	7.53	8.17	338.19	
2	10.00	4.07 31.35	6.43 24.94	3.70	7.46	9.01	315.85	
3	10.00	4.25 30.67	5.65 26.61	4.20	8.37	7.85	334.81	
4	10.00	4.20 30.87	6.60 24.62	2.70	7.53	9.21	327.04	
5	10.00	3.81 32.39	5.60 26.72	2.99	6.86	7.76	346.71	
6	10.00	5.84 26.17	5.56 26.82	4.80	14.35	7.77	306.48	
7	10.00	3.45 34.05	6.15 25.50	3.00	7.43	9.04	227.55	
8	10.00	6.38 25.03	6.12 25.58	3.80	22.77	9.02	206.85	
9	10.00	4.35 30.31	6.88 24.12	3.37	12.35	10.40	192.29	
10	10.00	3.24 35.16	6.26 25.27	2.70	6.69	9.32	211.71	
11	10.00	2.62 39.11	6.18 25.43	3.80	4.08	9.45	187.95	
12	10.00	2.78 37.95	5.42 27.16	4.30	5.23	7.93	235.24	
13	10.00	3.38 34.41	7.02 23.87	4.00	6.79	10.65	192.62	
14	10.00	4.52 29.74	5.18 27.80	3.10	10.94	7.31	284.62	
15	10.00	4.71 29.15	6.39 25.02	3.70	9.63	8.95	313.73	
16	10.00	4.03 31.52	6.67 24.48	3.10	7.47	9.43	295.36	
17	10.00	3.57 33.46	8.23 22.05	3.20	5.37	12.18	219.97	
18	10.00	3.15 35.66	6.15 25.50	2.70	4.83	8.67	304.54	
19	10.00	2.22 42.40	5.18 27.80	2.80	2.76	7.36	285.34	
20	10.00	2.84 37.54	6.86 24.14	3.80	3.50	9.89	258.96	
21	10.00	3.76 32.60	5.44 27.12	3.70	8.18	7.72	277.43	
22	10.00	4.81 28.83	5.09 28.04	3.50	11.69	7.15	295.42	
23	10.00	3.54 33.60	5.66 26.59	2.70	6.40	7.92	318.93	
24	10.00	3.50 33.79	6.60 24.62	3.50	5.46	9.26	316.81	
25	10.00	4.28 30.58	6.62 24.58	3.70	7.71	9.23	329.87	
26	10.00	3.50 33.82	6.00 25.81	3.10	5.72	8.36	335.87	
27	10.00	3.53 33.65	6.19 25.43	3.18	5.85	8.66	322.18	
28	10.00	3.97 31.75	5.33 27.39	2.30	8.39	7.49	302.74	
29	10.00	4.13 31.12	6.17 25.46	3.40	7.66	8.60	328.78	
30	10.00	3.89 32.06	5.71 26.47	3.70	7.20	7.94	335.62	
31	10.00	3.46 34.02	5.84 26.16	3.80	5.93	8.18	320.84	
32	10.00	4.23 30.75	5.67 26.56	3.70	8.65	7.93	317.01	
33	10.00	3.24 35.16	6.46 24.88	3.90	4.70	9.07	317.82	



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Page #

Protocol #: 9

LEAK TEST B

User : CPL W-i

Time: 10.00

Data Mode: Dual DPM

Nuclides: 3H-14C-UG

Quench Sets

Sigma Coincidence On

Low Energy: 3H-UG

Background Subtract: None

High Energy: 14C-UG

	LL	UL	LCR	25%	BKG
Region A:	0.0 - 18.6		0	0.0	0.00
Region B:	18.6 - 156		0	0.0	0.00
Region C:	156 - 2000		0	0.0	0.00

Quench Indicator: tSIE/AEC

Ext Std Terminator: Count

3H,14C, ?

Coincidence Time(ns): 18

Delay Before Burst(ns): 75

S#	TIME	CPMA A:25%	CPMB B:25%	CPMC	DPM1	DPM2	tSIE	FLAG
1	10.00	6.63 24.56	5.57 26.80	3.10	15.09	7.64	355.08	
2	10.00	4.71 29.14	6.99 23.93	3.80	8.89	9.76	323.51	
3	10.00	5.00 28.28	6.50 24.81	2.90	10.22	9.06	324.29	
4	10.00	4.90 28.58	4.70 29.16	3.70	10.81	6.48	349.10	
5	10.00	4.32 30.43	6.18 25.44	3.20	9.10	8.73	289.10	
6	10.00	4.92 28.52	6.58 24.65	5.20	9.12	9.08	359.44	
7	10.00	3.39 34.34	6.21 25.38	4.20	6.26	8.87	266.99	
8	10.00	4.80 28.88	6.20 25.39	3.60	9.78	8.64	326.68	
9	10.00	3.66 33.07	5.94 25.94	3.60	6.68	8.35	308.28	
10	10.00	3.19 35.42	8.21 22.07	3.40	3.41	11.90	251.57	
11	10.00	3.14 35.67	5.99 25.83	4.16	5.97	8.72	241.85	
12	10.00	4.48 29.87	5.92 26.00	3.00	9.56	8.31	303.85	
13	10.00	3.79 32.48	8.21 22.08	5.20	6.35	12.12	223.23	
14	10.00	3.79 32.48	7.41 23.24	5.30	6.80	10.72	250.86	
15	10.00	2.85 37.49	8.05 22.28	3.70	2.16	11.51	274.84	
16	10.00	2.97 36.71	6.83 24.20	4.60	4.15	9.91	248.74	
17	10.00	3.16 35.55	6.24 25.33	3.70	5.42	8.94	262.89	
18	10.00	4.52 29.76	6.89 24.09	3.89	10.08	9.89	258.47	
19	10.00	2.89 37.19	6.91 24.06	3.90	3.88	10.14	232.92	
20	10.00	3.31 34.77	7.19 23.58	4.50	5.47	10.61	225.15	
21	10.00	5.02 28.23	10.89 19.16	6.29	8.28	16.04	226.92	
22	10.00	3.29 34.85	7.11 23.72	3.10	5.31	10.38	238.09	
23	10.00	3.75 32.65	6.75 24.35	4.10	7.70	9.84	238.70	
24	10.00	3.56 33.50	8.00 22.36	3.24	5.20	11.59	249.84	
25	10.00	3.73 32.77	7.27 23.45	4.30	6.00	10.33	285.42	
26	10.00	4.15 31.06	6.15 25.49	3.00	8.60	8.71	285.63	
27	10.00	6.48 24.84	6.49 24.82	4.03	19.90	9.40	236.12	

28	10.00	5.68	26.53	8.02	22.34	4.00	13.36	11.48	259.56
29	10.00	2.61	39.16	6.49	24.82	4.40	3.03	9.37	255.88
30	10.00	3.30	34.80	7.60	22.95	3.50	5.19	11.37	206.30
31	10.00	4.34	30.36	5.96	25.90	2.70	9.39	8.42	288.65
32	10.00	4.26	30.65	6.54	24.73	4.30	8.29	9.22	299.81
33	10.00	4.50	29.81	7.85	22.57	3.64	11.10	11.79	200.22
34	10.00	4.17	30.96	8.12	22.20	5.81	7.53	11.74	250.71
35	10.00	4.80	28.86	7.60	22.95	4.70	9.91	10.81	273.43
36	10.00	3.48	33.92	5.62	26.67	4.70	6.90	7.99	279.39
37	10.00	4.24	30.70	6.16	25.49	3.10	8.85	8.70	289.40
38	10.00	5.78	26.32	6.94	24.00	3.28	13.28	9.78	294.02
39	10.00	5.26	27.57	8.34	21.90	4.50	12.32	12.16	235.75
40	10.00	4.22	30.80	7.28	23.44	4.60	9.00	10.60	239.90
41	10.00	4.19	30.89	7.51	23.08	5.50	8.31	10.85	250.72
42	10.00	4.55	29.67	6.25	25.29	4.40	9.81	8.84	289.04
43	10.00	4.23	30.74	7.17	23.63	4.80	8.66	10.29	258.47
44	10.00	2.78	37.91	6.52	24.78	3.20	3.57	9.31	271.44
45	10.00	3.39	34.34	6.31	25.18	3.60	6.45	9.12	251.16
46	10.00	2.80	37.80	7.92	22.48	4.88	2.19	11.84	209.41
47	10.00	4.30	30.50	5.90	26.04	3.20	9.25	8.33	291.32
48	10.00	3.34	34.60	6.26	25.28	5.10	6.18	9.01	257.50
49	10.00	4.85	28.72	7.35	23.33	5.20	10.67	10.50	264.53
50	10.00	4.32	30.44	7.88	22.53	6.30	9.38	11.67	217.67
51	10.00	4.72	29.11	6.88	24.11	3.30	8.79	9.57	334.20
52	10.00	3.86	32.18	5.94	25.95	3.50	6.91	8.26	335.20
53	10.00	5.26	27.56	7.14	23.68	4.30	10.32	9.93	332.01
54	10.00	4.56	29.61	6.44	24.93	4.90	8.75	8.96	330.64
55	10.00	5.32	27.42	7.38	23.28	4.40	10.47	10.29	324.48
56	10.00	4.14	31.08	4.96	28.40	3.40	8.21	6.83	355.90
57	10.00	4.67	29.27	6.13	25.54	3.10	8.94	8.47	350.34
58	10.00	4.87	28.65	7.73	22.75	3.70	9.02	10.85	310.94
59	10.00	5.64	26.64	5.06	28.11	2.90	13.57	7.03	322.57
60	10.00	4.71	29.15	6.39	25.02	4.40	9.60	8.95	314.91
61	10.00	3.52	33.70	7.18	23.61	4.00	4.97	10.06	319.74
62	10.00	3.57	33.47	5.93	25.97	3.10	6.49	8.35	302.91
63	10.00	4.01	31.58	6.49	24.83	4.50	7.01	9.05	328.93
64	10.00	3.37	34.46	6.23	25.34	3.20	5.16	8.69	332.77
65	10.00	4.50	29.81	5.40	27.22	4.20	9.47	7.51	329.78
66	10.00	4.51	29.78	7.59	22.96	3.80	7.90	10.65	313.51
67	10.00	6.05	25.72	6.65	24.52	3.60	12.94	9.21	339.32
68	10.00	6.45	24.91	6.25	25.29	3.10	15.32	8.71	317.16
69	10.00	4.46	29.94	6.44	24.93	4.60	11.28	9.39	234.89
70	10.00	3.36	34.51	6.14	25.52	3.40	5.73	8.69	291.67
71	10.00	4.77	28.97	5.63	26.65	3.30	10.05	7.82	332.36
72	10.00	3.60	33.34	8.70	21.44	3.90	4.17	12.39	282.77
73	10.00	4.29	30.55	6.51	24.78	4.20	7.82	9.08	330.74
74	10.00	4.16	31.02	6.14	25.52	4.60	8.58	8.69	288.54
75	10.00	5.00	28.28	6.91	24.05	4.08	10.96	9.79	283.39
76	10.00	4.70	29.17	7.20	23.57	4.00	9.01	10.12	307.42
77	10.00	3.80	32.44	6.20	25.40	3.10	6.64	8.66	325.43
78	10.00	5.19	27.76	6.91	24.06	3.90	11.11	9.72	300.05
79	10.00	3.18	35.49	5.92	25.98	3.40	5.25	8.38	295.87

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S#	TIME	CPMA A:2S%	CPMB B:2S%	CPMC	DPM1	DPM2	tsIE	FLPS
80	10.00	4.09 31.27	5.61 26.70	4.30	8.23	7.84	317.84	
81	10.00	3.70 32.88	6.80 24.25	3.00	6.19	9.60	297.76	
82	10.00	5.30 27.48	10.40 19.61	9.90	8.44	14.76	287.06	
83	10.00	6.39 25.03	7.21 23.55	6.00	15.90	10.21	278.08	

85	10.00	3.99	31.67	5.61	26.70	4.60	7.79	7.83	323.52
86	10.00	5.83	26.20	6.97	23.95	4.40	12.99	9.77	307.14
87	10.00	5.02	28.22	7.58	22.98	4.50	9.37	10.58	323.52
88	10.00	4.58	29.57	6.22	25.35	4.80	9.21	8.70	319.86
89	10.00	5.53	26.91	7.37	23.29	4.10	11.24	10.30	319.96
90	10.00	4.67	29.25	6.33	25.15	3.20	9.15	8.80	332.69
91	10.00	4.20	30.87	5.20	27.73	3.00	8.75	7.24	327.10
92	10.00	4.83	28.76	4.67	29.28	4.10	11.94	6.53	302.69
93	10.00	4.84	28.76	4.36	30.28	3.90	11.85	6.07	315.14
94	10.00	3.66	33.05	7.03	23.85	3.00	5.44	9.83	328.46
95	10.00	4.68	29.25	5.62	26.67	3.50	9.97	7.84	323.72
96	10.00	4.48	29.87	5.82	26.22	3.30	8.91	8.08	336.77

SYSTEM NORMALIZED

C14 IPA DATA PROCESSED - 24-Oct-2005 20:28

C14 Eff (0-156 keV) = 96.26 %

H3 IPA DATA PROCESSED - 24-Oct-2005 20:29

H3 Eff (0-18.6 keV) = 63.28 %

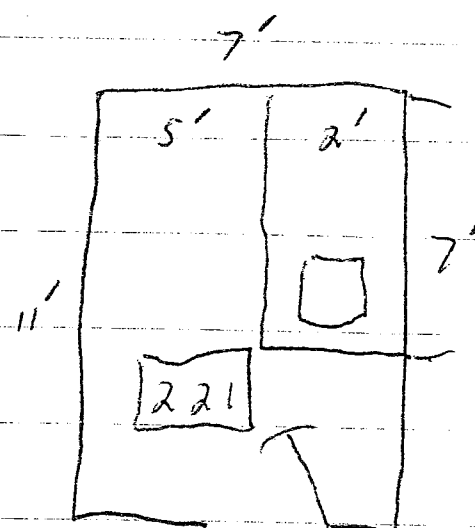
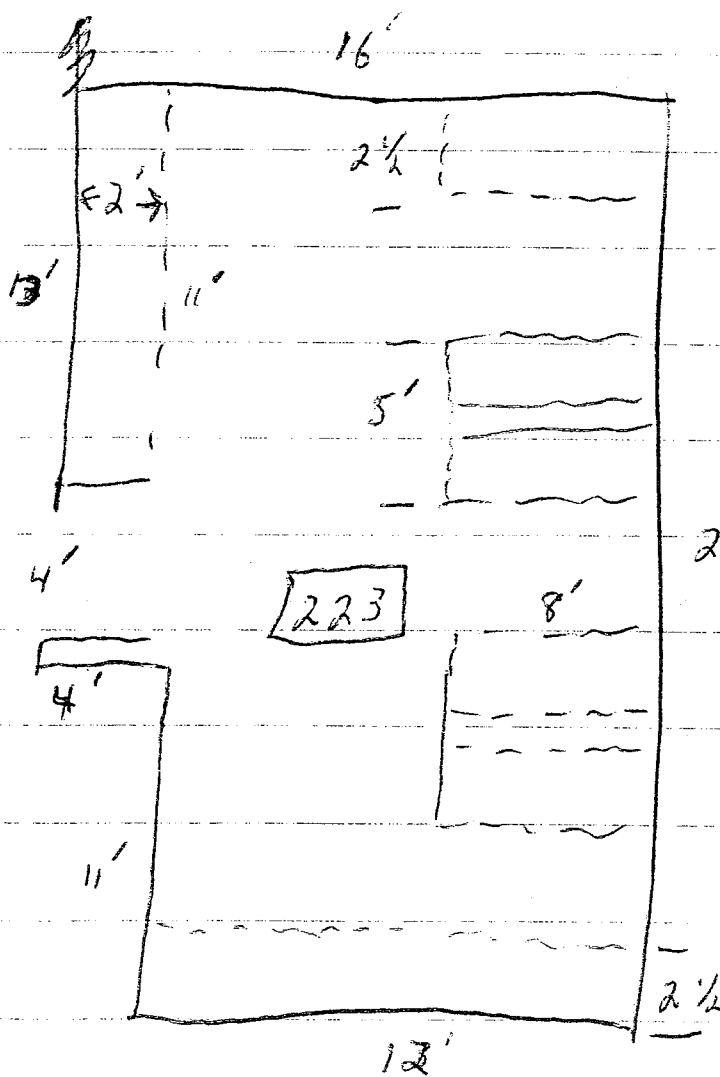
BKG IPA DATA PROCESSED - 24-Oct-2005 21:31

Bkg (0-18.6 keV) = 11.77 cpm

Bkg (0-156 keV) = 17.82 cpm

C14 E²/B (1-156 keV) = 657.73

H3 E²/B (1-18.6 keV) = 340.71

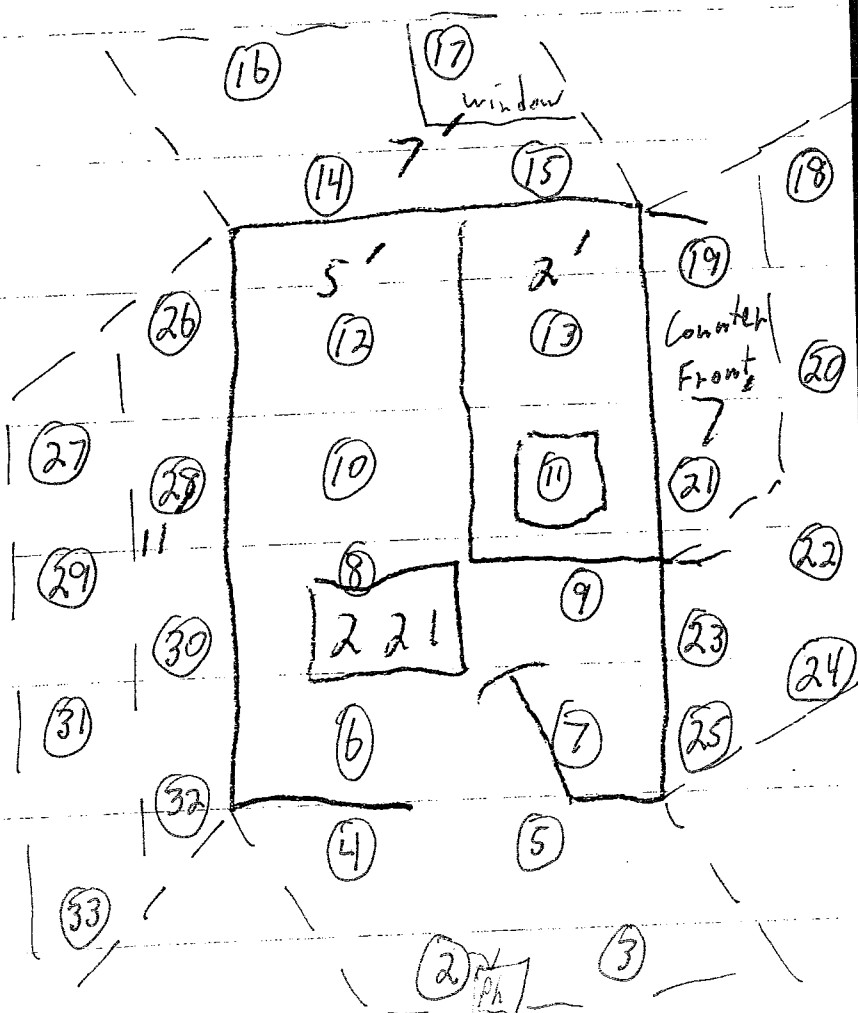


tile floors, ceramic in 223 + asbestos in 220
stainless steel lab benches

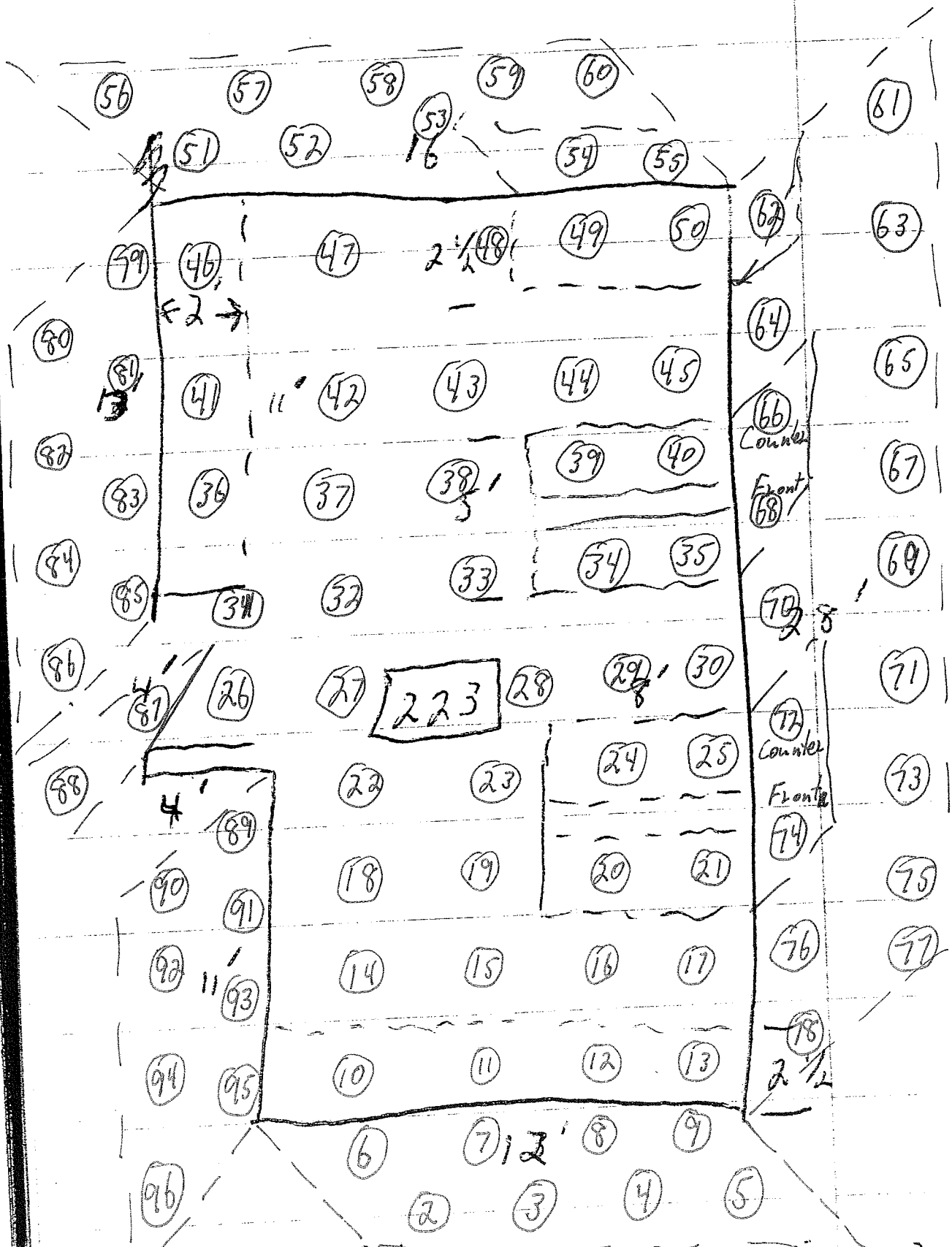
H-3 only used
wet 1" rough swipes

#1 background

33



#1 back ground



#1 background 33

