

# Radiological Survey Sheet

Job Location PFIZER INC, GROTON, CT. 06340 Page 1 of 25

Survey Purpose DECOMMISSIONING LAB 486/483 Date 4-13-09

Performed by E. GALLOR (Print) E. Gallor (Sign)

Instrument (Model/S/N)	Packard Tri-Carb S/N 431521	Packard Tri-Carb S/N 431520	Ludlum 2241-2 163603	Wallac Model 1409 S/N 4061042
Det. (Model/SN)	Internal	Internal	Ludlum 43-68 PR 149613	Internal
Type Rad.	$\beta$	$\beta$	$\beta$	$\beta$
Cal. Due:	04/03/2010	04/03/2010	<sup>24</sup> 04/07/2010 <sub>9</sub>	04/03/2010
Check Instruments Used	✓		✓	

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
1.	1045	BACKGROUND	
2.		UPPER door	
3.		LOWER door	
4.		FLOOR	
5.		UPPER WALL	
6.		LOWER WALL	
7.		TOP SHELF	
8.		" "	
9.		" "	
10.		" "	
11.		" "	
12.		BOTTOM SHELF	
13.		" "	
14.		UPPER WALL	
15.		LOWER "	
16.		UPPER "	
17.		LOWER "	
18.		UPPER "	
		LOWER "	

# Radiological Survey Continuation Sheet

Page 2 of 25

Date 11-13-09

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
19	1045	UPPER WALL	
20		LOWER "	
21		UPPER "	
22		LOWER "	
23		FLOOR	
24		"	
25		"	
26		"	
27		UPPER WALL	
28		LOWER "	
29		CAB DOOR & HANDLE	
30		TOP SHELF	
31		2ND "	
32		3RD "	
33		4TH "	
34		TOP "	
35		2ND "	
36		2RD "	
37		4TH "	
38		TOP "	
39		2ND "	
40		3RD "	
41		BENCH	
42		"	
43		"	
44		"	
45	v	"	

|

# Radiological Survey Continuation Sheet

Page 3 of 25

Date 11-13-07

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )	
46	1045	BENCH		
47		TOP SHELF		
48		2ND "		
49		3RD "		
50		TOP "		
51		2ND "		
52		3RD "		
53		BENCH		
54		CUP		
55		BENCH		
56		CUP		
57		BENCH		
58		"		
59		WALL		
60		"		
61		DRAWERS & HANDLS		
62		CAB DOOR & HANDL		
63		TOP DRAWER		
64		2ND "		
65		TOP SHELF		
66		BOTTOM "		
67		DRAWER & HANDLS		
68		TOP LEFT SMALL DRAWER		
69		BOTTOM "	4	4
70		TOP RIGHT "	"	"
71		BOTTOM "	"	"
72	✓	TOP LARGE		

# Radiological Survey Continuation Sheet

Page 4 of 25

Date 11-12-09

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
73	1645	BOTTOM LARGE DRAWER	
74		DRAWER	
75		LEFT DRAWER 5 <sup>th</sup> HNDL	
76		RIGHT " "	
77		LEFT TOP DRAWER	
78		" 2 <sup>nd</sup> "	
79		" 3 <sup>rd</sup> "	
80		RIGHT TOP "	
81		" 2 <sup>nd</sup> "	
82		TOP LARGE "	
83		BOTTOM " "	
84		FLOOR	
85		"	
86		"	
87		"	
88		TOP SHELF	
89		2 <sup>nd</sup> "	
90		3 <sup>rd</sup> "	
91		4 <sup>th</sup> "	
92		TOP "	
93		2 <sup>nd</sup> "	
94		3 <sup>rd</sup> "	
95		4 <sup>th</sup> "	
96		TOP SHELF	
97		2 <sup>nd</sup> "	
98		3 <sup>rd</sup> "	
99	✓	4 <sup>th</sup> "	

# Radiological Survey Continuation Sheet

Page 5 of 25

Date 11-13-09

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
100	1045	UPPER WALL	
101		LOWER "	
102		UPPER "	
103		LOWER "	
104		LEDGE	
105		"	
106		DRAWERS & HANDL	
107		TOP DRAWER	
108		2ND "	
109		3RD "	
110		DRAWER	
111		B ENCY	
112		"	
113		"	
114		"	
115		"	
116		"	
117		DRAWERS & HANDLS	
118		CAD DOOR & HANDL	
119		TOP DRAWER	
120		2ND "	
121		TOP SHELF	
122		2ND "	
123		DRAWER	
124		RIGHT DRAWERS & HANDLS	
125		LEFT " "	
126	✓	TOP RIGHT DRAWER	

# Radiological Survey Continuation Sheet

Page 6 of 25

Date 11-17-07

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
127	1045	2ND RIGHT DRAWER	
128		TOP LEFT	//
129		2ND	// //
130		1ST LARGE	//
131		2ND	// //
132		RIGHT DRAWERS & HANDLS	
133		LEFT	// //
134		TOP RIGHT	//
135		2ND	// //
136		3RD	// //
137		TOP LEFT	//
138		2ND	// //
139		1ST LARGE	//
140		2ND	// //
141		DRAWERS & HANDLS	
142		TORREX CAB door & HANDL	
143		TOP DRAWER	
144		2ND	//
145		TOP SHELF	
146		Bottom	//
147		DRAWER	
148		TOPED DRAWERS & HANDLS	
149		TOP	//
150		2ND	//
151		3RD	//
152		4TH	//
153	✓	DRAWER	

# Radiological Survey Continuation Sheet

Page 7 of 25

Date 11-12-09

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
154	1045	DRAWER & HANDLS	
155		TOP DRAWER	
156		2ND "	
157		3RD "	
158		4TH "	
159		SIDE OF CAB	
160		TOP SHELF	
161		2ND "	
162		3RD "	
163		4TH "	
164		DESK	
165		TOP SHELF	
166		2ND "	
167		3RD "	
168		TOP "	
169		2ND "	
170		3RD "	
171		CUP	
172		CUP	
173		BENCH	
174		"	
175		"	
176		"	
177		SINK AREA	
178		DESK	
179		CAB DOOR & HANDLS	
180	✓	INSIDE CAB LEFT SIDE	

# Radiological Survey Continuation Sheet

Page 8 of 25

Date 11-13-07

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
181	10:45	INSIDE CAB BOTTOM LEFT	
182		" " " RIGHT	
183		" " LEFT SIDE	
184		FLOOR	
185		"	
186		"	
187		"	
188		"	
189		"	
190		"	
191		"	
192		UPPER WALL	
193		LOWER "	
194		UPPER door	
195		LOWER door	
196		UPPER WALL	
197		LOWER WALL	
198		UPPER door	
199		LOWER door	
200		FLOOR	
201		TOP SHELF	
202		2ND "	
203		3RD "	
204		4TH "	
205		SHELF	
206		DESK	
207	✓	BENCH	



# Radiological Survey Continuation Sheet

Page 9 of 25

Date 11-14-07

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
208	1047	0 ENCY	
209			
210			
211		DRAWERS & HANDLS	
212		1ST DRAWER	
213		2ND	
214		3RD	
215		DRAWER	
216		DRAWERS & HANDLS	
217		TOP DRAWER	
218		2ND	
219		CAB. DOOR & HANDL	
220		TOP SHELF	
221		BOTTOM	
222		DRAWERS & HANDLS	
223		TOP DRAWER	
224		2ND	
225		3RD	
226		4TH	
227		DRAWERS & HANDLS	
228		TOP DRAWER	
229		2ND	
230		3RD	
231		4TH	
232		SIDE OF CAB	
233		DRAWER	D
234	✓	LEFT TOP SHELF	

# Radiological Survey Continuation Sheet

Page 6 of 25

Date 11-16-09

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
235	1045	LEFT MIDDLE SHELF	
236		" BOTTOM "	
237		RIGHT TOP "	
238		" MIDDLE "	
239		" BOTTOM "	
240		DESK	
241		LEFT DRAWERS	
242		RIGHT " "	
243		CAB DOORS DRAWERS	
244		" TOP "	
245		" BOTTOM "	
247		DESK	
248		DESK	
249		DRAWER & HANDLS	
250		TOP DRAWER	
251		2ND "	
252		BOTTOM "	
253		OUTSIDE DRAWERS	
254		TOP DRAWER	
255		BOTTOM "	
256		LEFT TOP SHELF	
257		2ND LEFT "	
258		3RD " "	
259		TOP RIGHT "	
260		MIDDLE " "	
261		BOTTOM " "	
262		✓ CAB DRAWERS OUTSIDE	

# Radiological Survey Continuation Sheet

Page 11 of 25

Date 11-16-09

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
263	1045	CAB TOP DRAWER	
264		" 2ND "	
265		" 3RD "	
266		" 4TH "	
267		OUTSIDE CAB	
268		CAB TOP DRAWER	
269		" 2ND "	
270		" 3RD "	
271		FLOOR	
272		"	
273		"	
274		"	
275		"	
276		"	
277		UPPER GLASS	
278		LOWER "	
279		UPPER door	
280		LOWER "	
281		UPPER GLASS	
282		LOWER "	
283		UPPER WALL	
284		LOWER WALL	
285		TOP LEFT SHELF	
286		MIDDLE " "	
287		BOTTOM " "	
288		TOP RIGHT & SHELF	
289	✓	MIDDLE " "	

# Radiological Survey Continuation Sheet

Page 12 of 25

Date 11-16-09

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
290	1045	BOTTOM RIGHT SHELF	
291		TOP DRAWER LEFT	
292		2ND " "	
293		3RD " "	
294		TOP " RIGHT	
295		2ND " "	
296		3RD " "	
297		DESK	
298		DRAWER OUTSIDE	
299		TOP DRAWER	
300		2ND "	
301		3RD "	
302		<del>4TH</del> 4TH FLOOR	
303		DESK	
304		TOP DRAWER	
305		BOTTOM "	
306		TOP LEFT SHELF	
307		2ND " "	
308		3RD " "	
309		TOP RIGHT "	
310		2ND " "	
311		3RD " "	
312		UPPER WALL	
313		LOWER "	
314		UPPER "	
315		LOWER WALL	
316	✓	UPPER "	

# Radiological Survey Continuation Sheet

Page 13 of 25

Date 11-16-09

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
317	1045	LOWER WALL	
318		SHelf	
319		WALL	
320		TOP SHelf	
321		BOTTOM "	
322		PEG Bd	
323		BENCH	
324		R SINK AREA	
325		BENCH	
326		DRAWER & HANDLS	
327		TOP DRAWER	
328		2Nd "	
329		3rd "	
330		4TH "	
331		CAB DOORS & HANDLS	
332		CAB INSIDE LEFT SIDE	
333		" " " BOTTOM	
334		" " RIGHT "	
335		" " " SIDE	
336		" " BACK LEFT	
337		" " " RIGHT	
338		HOOD LEFT SIDE	
339		" TOP LEFT BACK	
340		" BOTTOM " "	
341		" TOP MIDDLE "	
342		" BOTTOM " "	
343		" TOP RIGHT "	

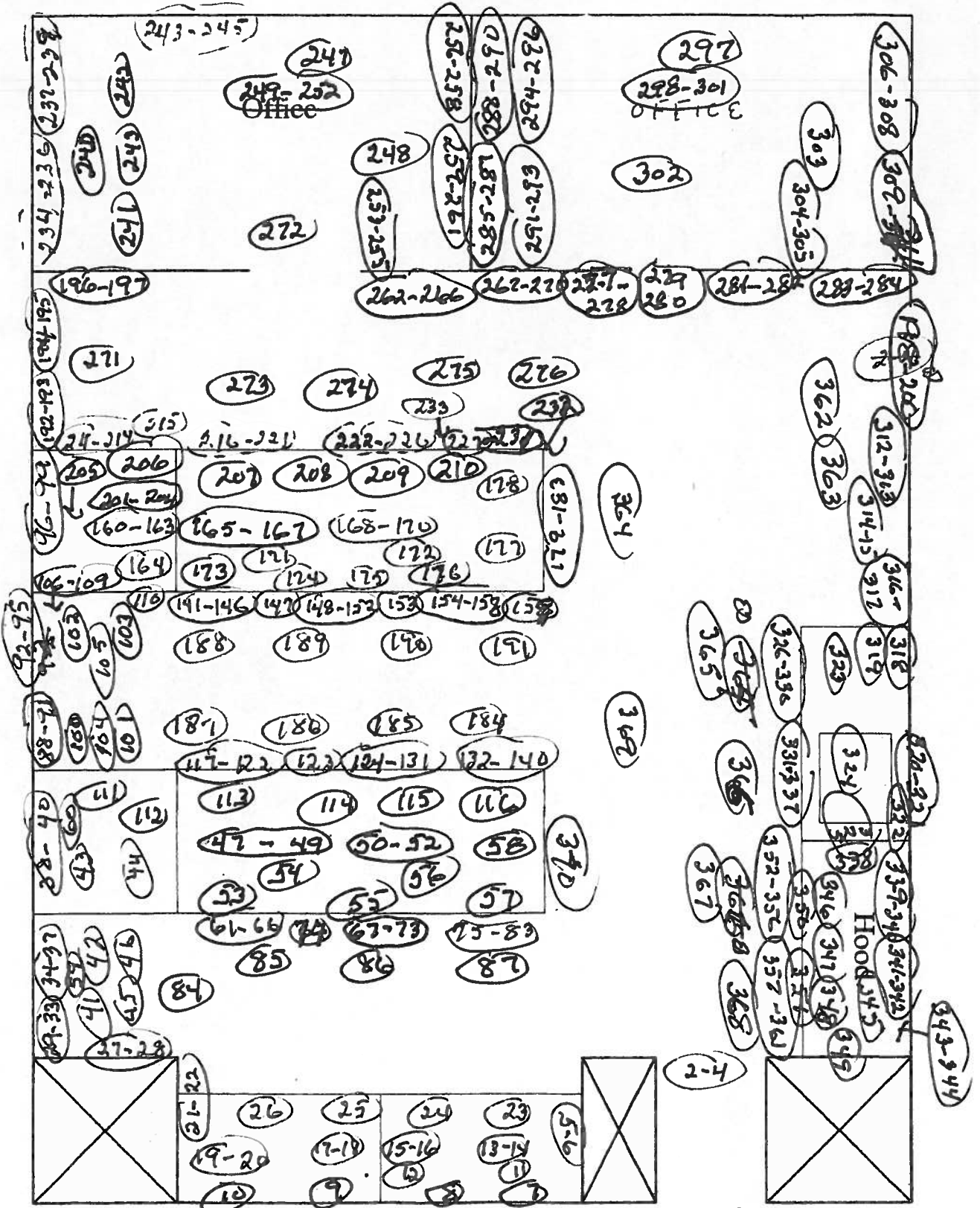
# Radiological Survey Continuation Sheet

Page 14 of 25

Date 11-16-09

No.	Time	Locations	See attached LSC printout for Total Activity (cpm/100 cm <sup>2</sup> )
344	1045	Hood Bottom RIGHT BACK	
345		Hood CVP	
346		" BOTTOM LEFT	
347		" " MIDDLE	
348	7	" " RIGHT	
349		" " RIGHT SIDE	
350		" HP SASH	
351		"	
352		CAB doors & HANDLS	
353		" INSIDE LEFT SIDE	
354		" " BACK	
355		" " RIGHT SIDE	
356		" " BOTTOM	
357		CAB doors & HANDLS	
358		" INSIDE LEFT SIDE	
359		" " BACK	
360		" " RIGHT "	
361		" " BOTTOM	
362		Floor	
363		"	
364		"	
365		"	
366		"	
367		"	
368		"	
369		"	
370	✓	"	





Outside LOCATION

- Surveyed no. of lower surfaces using 436 ~~APP~~ NO READINGS IN EXCESS OF NORMAL BACKGROUND LEVELS WERE OBSERVED



Assay Definition-

Assay Description:  
Equipment Swipes

Assay Type: CPM  
Report Name: Report1  
Output Data Path: C:\Packard\Tricarb\Results\Ed Gailor\Eds Monthly Swipes  
Raw Results Path: C:\Packard\Tricarb\Results\Ed Gailor\Eds Monthly Swipes\20091113\_1341  
\20091113\_1341.results  
RTF File Name: C:\Packard\Tricarb\Results\Ed Gailor\Eds Monthly Swipes\Ed's Monthly  
Swipes.rtf  
Assay File Name: C:\Packard\TriCarb\Assays\Eds Monthly Swipes.lsa

Count Conditions-

Nuclide: Triple  
Quench Indicator: tSIE/AEC  
External Std Terminator (sec): 0.5 2s%  
Pre-Count Delay (min): 0.00  
Quench Set: n/a  
Count Time (min): 1.00  
Count Mode: Normal  
Assay Count Cycles: 1 Repeat Sample Count: 1  
#Vials/Sample: 1 Calculate % Reference: Off

Background Subtract: On - Manual  
Low CPM Threshold: Off  
2 Sigma % Terminator: Off

Regions	LL	UL	Bkg Subtract
A	0.0	18.6	0.00
B	18.6	156.0	0.00
C	0.0	2000.0	0.00

Count Corrections-

Static Controller: On Luminescence Correction: On  
Colored Samples: n/a Heterogeneity Monitor: n/a  
Coincidence Time (nsec): 18 Delay Before Burst (nsec): 75

Half Life-

Half Life Correction: Off

Regions	Half Life	Units	Reference Date	Reference Time
A				
B				
C				

Cycle 1 Results

S#	CPMA	CPMB	CPMC	MESSAGES
1	14	3	24	
2	4	6	13	
3	15	6	28	
4	6	5	19	
5	7	3	16	
6	13	6	24	
7	12	8	25	
8	18	7	31	
9	10	4	15	
10	13	8	28	

18025

11	20	5	30
12	5	4	16
13	12	6	28
14	5	11	21
15	9	10	24
16	12	5	21
17	14	7	28
18	9	8	22
19	15	6	24
20	18	7	34
21	6	7	15
22	12	5	19
23	9	5	17
24	12	7	25
25	2	4	11
26	14	4	22
27	14	6	24
28	10	9	27
29	8	9	23
30	15	3	21
31	16	9	32
32	8	8	25
33	14	8	30
34	17	10	35
35	8	12	25
36	12	6	25
37	6	9	18
38	18	8	29
39	13	10	27
40	13	6	28
41	10	6	24
42	9	5	21
43	15	8	25
44	14	6	27
45	10	3	19
46	15	10	31
47	6	5	18
48	9	1	12
49	8	3	20
50	17	9	26
51	8	13	22
52	4	10	19
53	14	4	27
54	14	6	25
55	12	4	24
56	8	5	20
57	6	9	20
58	20	6	36
59	12	3	22
60	9	11	24
61	14	7	28
62	12	8	27
63	15	9	29
64	2	3	10
65	17	10	33
66	5	8	19
67	14	4	27
68	12	7	26
69	9	9	21
70	16	8	31
71	18	6	32
72	6	4	17

73	8	8	22
74	8	7	19
75	10	11	24
76	11	6	21
77	13	7	23
78	13	5	23
79	8	9	23
80	15	7	27
81	14	4	22
82	11	8	27
83	6	14	27
84	16	7	26
85	9	6	23
86	4	11	22
87	11	12	25
88	14	6	24
89	19	7	35
90	15	3	20
91	15	5	25
92	19	4	27
93	15	8	28
94	16	6	29
95	12	3	16
96	12	6	23
97	11	12	31
98	11	6	26
99	7	11	26
100	8	9	19
101	12	6	20
102	9	4	26
103	11	9	24
104	14	6	27
105	11	5	21
106	9	4	18
107	4	7	17
108	12	7	22
109	13	8	25
110	12	3	23
111	16	12	33
112	10	5	18
113	24	9	38
114	10	8	24
115	12	4	21
116	12	9	29
117	10	1	16
118	21	11	34
119	16	6	25
120	15	6	29
121	19	8	34
122	16	7	28
123	6	8	20
124	14	5	23
125	14	7	27
126	13	9	27
127	17	6	30
128	14	9	28
129	6	4	11
130	12	7	25
131	28	11	48
132	3	10	18
133	13	5	25
134	12	9	27
135	9	3	16

200625

136	7	9	21
137	15	2	20
138	14	5	22
139	11	5	21
140	14	5	25
141	8	8	18
142	17	3	21
143	8	5	14
144	9	4	19
145	13	9	28
146	7	7	18
147	11	6	20
148	13	5	25
149	10	5	24
150	15	5	28
151	12	9	28
152	12	2	21
153	12	5	20
154	11	4	24
155	15	9	28
156	14	9	38
157	16	9	33
158	10	8	21
159	6	7	20
160	9	5	17
161	6	6	18
162	13	6	23
163	5	8	17
164	12	7	23
165	14	4	25
166	17	8	28
167	3	8	12
168	8	8	20
169	15	9	28
170	6	4	13
171	5	0	11
172	7	8	18
173	11	7	25
174	14	9	28
175	7	7	17
176	2	11	19
177	8	1	15
178	13	6	24
179	9	5	19
180	6	8	19
181	15	6	30
182	10	8	24
183	3	6	17
184	11	4	17
185	7	6	21
186	11	7	20
187	8	11	26
188	11	7	23
189	12	6	23
190	3	7	18
191	14	16	37
192	16	6	27
193	16	6	24
194	11	9	29
195	6	8	17
196	17	9	27
197	8	6	19
198	17	4	29

210625

199	1	1	6
200	15	5	26

Protocol# 4 - Eds Monthly Swipes.lsa

User: Ed Gailor

Assay Definition-

Assay Description:  
Equipment Swipes

Assay Type: CPM  
Report Name: Report1  
Output Data Path: C:\Packard\Tricarb\Results\Ed Gailor\Eds Monthly Swipes  
Raw Results Path: C:\Packard\Tricarb\Results\Ed Gailor\Eds Monthly Swipes\20091116\_1227  
\20091116\_1227.results  
RTF File Name: C:\Packard\Tricarb\Results\Ed Gailor\Eds Monthly Swipes\Ed's Monthly  
Swipes.rtf  
Assay File Name: C:\Packard\TriCarb\Assays\Eds Monthly Swipes.lsa

Count Conditions-

Nuclide: Triple  
Quench Indicator: tSIE/AEC  
External Std Terminator (sec): 0.5 2s%  
Pre-Count Delay (min): 0.00  
Quench Set: n/a  
Count Time (min): 1.00  
Count Mode: Normal  
Assay Count Cycles: 1 Repeat Sample Count: 1  
#Vials/Sample: 1 Calculate % Reference: Off

Background Subtract: On - Manual  
Low CPM Threshold: Off  
2 Sigma % Terminator: Off

Regions	LL	UL	Bkg Subtract
A	0.0	18.6	0.00
B	18.6	156.0	0.00
C	0.0	2000.0	0.00

Count Corrections-

Static Controller: On Luminescence Correction: On  
Colored Samples: n/a Heterogeneity Monitor: n/a  
Coincidence Time (nsec): 18 Delay Before Burst (nsec): 75

Half Life-

Half Life Correction: Off  
Regions Half Life Units Reference Date Reference Time  
A  
B  
C

Cycle 1 Results

S#	CPMA	CPMB	CPMC	MESSAGES
1 <i>201</i>	3	6	15	
2	2	10	17	
3	22	6	32	
4	13	5	25	
5	1	8	11	
6	23	7	37	
7	1	8	17	
8	2	8	14	
9	5	8	16	
10 <i>210</i>	13	13	31	

11	8	5	18
12	9	6	25
13	4	8	16
14	8	6	22
15	5	9	18
16	10	4	21
17	10	7	25
18	14	6	24
19	13	3	22
20	220	9	8
21	20	11	34
22	10	5	21
23	10	9	23
24	11	5	22
25	18	7	30
26	13	6	25
27	17	3	23
28	25	10	43
29	18	5	29
30	230	25	7
31	8	6	20
32	12	8	22
33	14	2	22
34	12	3	18
35	21	8	35
36	6	4	10
37	9	8	24
38	10	9	29
39	16	7	32
40	240	7	5
41	11	6	26
42	10	9	23
43	15	10	29
44	12	5	23
45	7	7	19
46	8	8	24
47	13	5	26
48	9	7	22
49	16	7	27
50	250	14	9
51	7	2	13
52	4	6	12
53	11	11	27
54	6	8	21
55	10	7	25
56	0	2	5
57	7	8	21
58	6	4	17
59	10	9	23
60	260	6	4
61	16	3	20
62	13	4	23
63	17	7	28
64	3	6	11
65	0	5	13
66	22	7	35
67	13	9	34
68	0	4	0
69	18	6	28
70	270	14	5
71	12	7	22
72	11	8	26

73	14	8	25
74	7	8	19
75	9	7	20
76	15	7	31
77	10	6	24
78	12	4	22
79	0	7	2
80	280 6	7	18
81	25	9	39
82	18	5	32
83	22	11	37
84	21	3	33
85	10	6	23
86	18	5	26
87	9	6	22
88	5	8	16
89	7	7	21
90	290 17	5	25
91	9	8	22
92	11	3	18
93	7	7	16
94	8	6	16
95	27	9	39
96	18	4	30
97	8	12	22
98	14	11	31
99	21	11	41
100	300 0	5	3
101	23	4	33
102	1	8	13
103	20	8	35
104	1	5	15
105	18	9	29
106	0	9	7
107	11	6	27
108	0	10	13
109	17	8	31
110	310 4	14	21
111	0	8	0
112	9	7	18
113	7	4	18
114	1	7	13
115	11	4	17
116	13	8	27
117	14	8	28
118	14	3	19
119	7	7	17
120	320 10	12	27
121	31	4	43
122	6	8	20
123	11	10	26
124	12	6	21
125	8	6	18
126	8	7	20
127	14	6	26
128	10	6	23
129	8	11	28
130	330 0	9	11
131	2	12	18
132	31	10	48
133	14	5	25
134	15	5	25
135	1	8	15



136	91	5	100
137	4	4	12
138	6	9	19
139	1	3	12
140	340	0	8
141	5	9	23
142	23	6	31
143	4	10	18
144	7	9	20
145	2	7	18
146	1	4	7
147	0	15	5
148	0	10	10
149	3	10	19
150	350	0	10
151	18	11	32
152	2	11	17
153	0	10	8
154	0	6	8
155	15	7	29
156	0	5	8
157	0	6	0
158	1	9	14
159	17	4	26
160	360	29	7
161	20	8	32
162	17	12	38
163	12	9	28
164	14	8	25
165	5	4	11
166	0	9	10
167	4	10	21
168	20	7	31
169	1	4	11
170	370	1	8
171	6	8	15
172	0	10	18
173	6	5	17
174	374	0	12

Note: All swipe results are Satisfactory, including # 336 with Calver