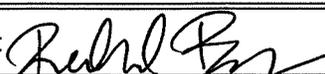


GUO LAB DODGEN B021/121 WEEKLY SWIPES & SURVEYS

Revised 7/9/2019

Week #	25	Dates:	6/20/2021-6/26/2021	Counted On	6/23/2021
INSTRUMENT USED: Quantasart (Serial# 073396)		CONTROL FACTOR:		1.40E-06	
CHANNEL ENERGY RANGE (keV)		CH A: 4-200	CH B: 200-2000	CH C: 4-2000	
COUNTING TIME: 5 Min.		uCi/swipe = CPM:C * Control Factor		uCi/cm ² = CPM:C * Control Factor / 100	
Limit of quantification (LOQ)=		8.78E-08 uCi/cm ²		QUANTIFICATION BELOW REG GUIDE 8.23 LIMITS OK	
Swipe #	LOCATION: ROOM # & AREA/OBJECT	GROSS CPM CHANNEL C	uCi/swipe	uCi/cm ²	NOTE
1.	BACKGROUND 1	30	*****	*****	
2.	BACKGROUND 2	29	*****	*****	
3.	BACKGROUND 3	29	*****	*****	
4.	BACKGROUND 4	26	*****	*****	
5.	BACKGROUND 5	28	*****	*****	
6.	BACKGROUND 6	25	*****	*****	
7.	B021 ELEVATOR ENTRANCE	27	M	M	
8.	B021 FENCED GATE	23	M	M	
9.	B021 RAM SAFE	29	M	M	
10.	B021 EAST FLOOR	26	M	M	
11.	B021 NORTH BENCH TOP	24	M	M	
12.	B021 WEST LAB FLOOR	26	M	M	
13.	B021 WORK PLATFORM	27	M	M	
14.	B021 CALORIMETER	25	M	M	
15.	B021 COMPUTERS	30	M	M	
16.	B021 DSC/TGA	28	M	M	
17.	B021 SOUTH BENCH TOP	30	M	M	
18.	121 DOORWAY	31	M	M	
19.	121 GLOVE BOX- FLOOR	33	M	M	
20.	121 GLOVE BOX	25	M	M	
21.	121 WEST BENCH TOP	23	M	M	
22.	121 CENTER OF LAB	33	M	M	
23.	122 EAST BENCH TOP	27	M	M	
³⁶ CI SOURCE 09/14/1971		50181		*****	*****
		101.18%	CALIBRATION CHECK OK?		YES
Notes(s): M = below limit of quantification on the LSC. The limit of quantification is checked against lowest allowable contamination limit of 1 x 10 ⁻⁶ uCi/cm ² .					
SURVEY PREPARED BY: R. Bergman			REVIEWED BY: M. Heine		
SIGN/DATE:  06/23/21			SIGN/DATE:  6/24/21		

Assay Definition-

Assay Description:

Assay Type: CPM

Report Name: Report1

Output Data Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20210623_1304

Raw Results Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20210623_1304\20210623_1304.results

Assay File Name: C:\Packard\TriCarb\Assays\Reactor Weekly.lsa

Count Conditions-

Nuclide: Reactor

Quench Indicator: tSIE/AEC

External Std Terminator (sec): 0.5 2s%

Pre-Count Delay (min): 0.00

Quench Set: n/a

Count Time (min): 5.00

Count Mode: Normal

Assay Count Cycles: 1

Repeat Sample Count: 1

#Vials/Sample: 1

Calculate % Reference: Off

Background Subtract: Off

Low CPM Threshold: Off

2 Sigma % Terminator: Off

Regions	LL	UL
A	4.0	200.0
B	200.0	2000.0
C	4.0	2000.0

Count Corrections-

Static Controller: On

Luminescence Correction: Off

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

P#	DATE	TIME	S#	Count	Time	CPMA	CPMB	CPMC	SIS	MESSAGES
1	6/23/2021	1:06:07 PM	1	5.00	23	7	30	265.10		
1	6/23/2021	1:12:24 PM	2	5.00	23	6	29	224.08		
1	6/23/2021	1:18:36 PM	3	5.00	24	5	29	284.80		
1	6/23/2021	1:24:55 PM	4	5.00	23	3	26	149.63		
1	6/23/2021	1:31:13 PM	5	5.00	25	4	28	209.73		
1	6/23/2021	1:37:30 PM	6	5.00	20	5	25	267.96		
1	6/23/2021	1:43:48 PM	7	5.00	21	6	27	262.58		
1	6/23/2021	1:50:05 PM	8	5.00	20	3	23	204.02		
1	6/23/2021	1:56:19 PM	9	5.00	23	5	29	296.04		
1	6/23/2021	2:02:34 PM	10	5.00	21	6	26	244.50		
1	6/23/2021	2:08:49 PM	11	5.00	20	5	24	246.15		
1	6/23/2021	2:15:09 PM	12	5.00	22	4	26	212.70		

Protocol# 1 - Reactor Weekly.lsa

User: CSE

1	6/23/2021	2:21:33 PM	13	5.00	22	5	27	282.85
1	6/23/2021	2:27:51 PM	14	5.00	21	3	25	200.85
1	6/23/2021	2:34:03 PM	15	5.00	23	7	30	265.47
1	6/23/2021	2:40:15 PM	16	5.00	22	5	28	273.29
1	6/23/2021	2:46:33 PM	17	5.00	24	6	30	246.07
1	6/23/2021	2:52:51 PM	18	5.00	28	3	31	202.54
1	6/23/2021	2:59:10 PM	19	5.00	28	5	33	235.29
1	6/23/2021	3:05:28 PM	20	5.00	21	4	25	180.23
1	6/23/2021	3:11:45 PM	21	5.00	19	4	23	236.26
1	6/23/2021	3:18:04 PM	22	5.00	29	4	33	186.08
1	6/23/2021	3:24:24 PM	23	5.00	23	5	27	247.79
1	6/23/2021	3:30:06 PM	24	5.00	14248	35933	50181	1030.93

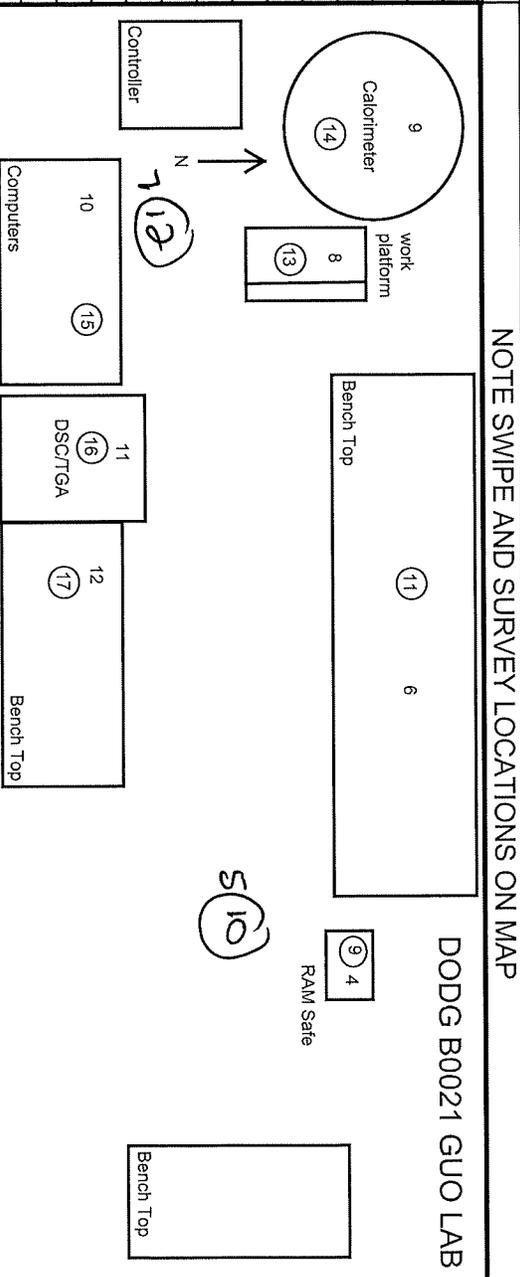
LABORATORY SURVEY

Radiation Safety Office
 Washington State University
 Pullman, WA 99164-1302
 (509) 335 8916

Building	Dodgen Research Facility	Room	B0021 - GUO	Lab Class	D	Survey Instrument	GM Detector Model 3	Serial No.	58680	Radiation Detected	Gamma
Authorized User	Xiaofeng Guo	Date	06/23/21	Time	0650	Swipe Instrument	Quantasmat	Serial No.	073396	Radiation Detected	Beta/Gamma
Reactor Status (Check One)	<input checked="" type="checkbox"/> ON <input type="checkbox"/> OFF										

LSC Printout Date 06/23/21

Survey #	Location	CPM	Notes
1	Background	70	
2	Elevator Entrance	80	
3	South Floor	100	
4	RAM Safe	220	
5	East Lab Floor	50	
6	North Bench Top	100	
7	West Floor	90	
8	Work Platform	30	
9	Calorimeter	40	
10	Computers	70	
11	DSC/TGA	40	
12	South Bench Top	70	
Swipe # and Locations			
1-6	Background	16	DSC/TGA
7	Elevator Entrance	17	South Bench Top
8	South Floor		
9	RAM Safe		
10	East Lab Floor		
11	North Bench Top		
12	West Lab Floor		
13	Work Platform		
14	Calorimeter		
15	Computers		



Surveyed By:	<i>KRB</i>	Date:	06/23/21
Swiped By:	<i>KRB</i>	Date:	06/23/21
Reviewed By:	<i>[Signature]</i>	Date:	06/24/21

Circled numbers on map indicate a swipe area of 100 square cm. Numbers not circled indicate a survey location.

