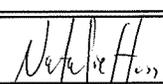
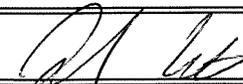


GUO LAB DODGEN B021/121 WEEKLY SWIPES & SURVEYS

Revised 7/9/2019

Week #	42	Dates:	10/17/2021-10/23/2021	Counted On	10/18/2021
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)=		9.01E-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	31	*****	*****	
2.	BACKGROUND 2	32	*****	*****	
3.	BACKGROUND 3	35	*****	*****	
4.	BACKGROUND 4	27	*****	*****	
5.	BACKGROUND 5	33	*****	*****	
6.	BACKGROUND 6	28	*****	*****	
7.	B021 ELEVATOR ENTRANCE	33	M	M	
8.	B021 FENCED GATE	31	M	M	
9.	B021 RAM SAFE	27	M	M	
10.	B021 EAST FLOOR	35	M	M	
11.	B021 NORTH BENCH TOP	28	M	M	
12.	B021 WEST LAB FLOOR	38	9.80E-06	9.80E-08	
13.	B021 WORK PLATFORM	34	M	M	
14.	B021 CALORIMETER	27	M	M	
15.	B021 COMPUTERS	30	M	M	
16.	B021 DSC/TGA	21	M	M	
17.	B021 SOUTH BENCH TOP	30	M	M	
18.	121 DOORWAY	24	M	M	
19.	121 GLOVE BOX- FLOOR	28	M	M	
20.	121 GLOVE BOX	30	M	M	
21.	121 WEST BENCH TOP	33	M	M	
22.	121 CENTER OF LAB	37	M	M	
23.	122 EAST BENCH TOP	29	M	M	
³⁶ CI SOURCE 09/14/1971		50093	*****	*****	
			101.00%	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: N. Hoss			REVIEWED BY: J. Cummings		
SIGN/DATE:  10/19/2021			SIGN/DATE:  10/26/21		

Assay Definition-

Assay Description:

Assay Type: CPM
 Report Name: Report1
 Output Data Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20211018_1744
 Raw Results Path: C:\Packard\Tricarb\Results\CSE\Reactor Weekly\20211018_1744\20211018_1744.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	10/18/2021	5:46:12 PM	1		5.00	25	6	31	236.74	
1	10/18/2021	5:52:37 PM	2		5.00	25	7	32	279.26	
1	10/18/2021	5:58:54 PM	3		5.00	27	8	35	267.51	
1	10/18/2021	6:05:20 PM	4		5.00	23	5	27	221.81	
1	10/18/2021	6:11:45 PM	5		5.00	27	6	33	222.81	
1	10/18/2021	6:18:09 PM	6		5.00	24	4	28	208.95	
1	10/18/2021	6:24:36 PM	7		5.00	28	5	33	176.81	
1	10/18/2021	6:31:02 PM	8		5.00	26	5	31	140.34	
1	10/18/2021	6:37:20 PM	9		5.00	22	5	27	245.60	
1	10/18/2021	6:43:44 PM	10		5.00	29	6	35	164.74	
1	10/18/2021	6:50:06 PM	11		5.00	23	5	28	201.11	
1	10/18/2021	6:56:35 PM	12		5.00	33	5	38	131.51	

Protocol# 1 - Reactor Weekly.lsa

User: CSE

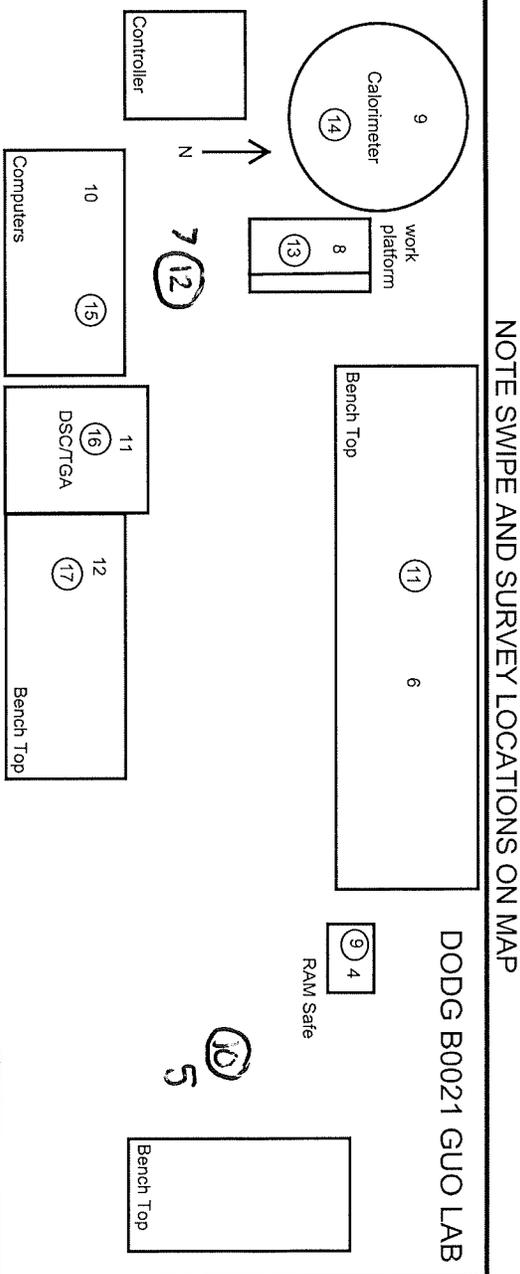
1	10/18/2021	7:03:02 PM	13	5.00	28	6	34	241.46
1	10/18/2021	7:09:24 PM	14	5.00	21	6	27	313.15
1	10/18/2021	7:15:40 PM	15	5.00	24	5	30	207.97
1	10/18/2021	7:22:01 PM	16	5.00	19	3	21	168.43
1	10/18/2021	7:28:25 PM	17	5.00	23	6	30	250.67
1	10/18/2021	7:34:46 PM	18	5.00	19	4	24	240.26
1	10/18/2021	7:41:11 PM	19	5.00	24	4	28	189.92
1	10/18/2021	7:47:34 PM	20	5.00	25	5	30	285.37
1	10/18/2021	7:53:50 PM	21	5.00	25	8	33	261.25
1	10/18/2021	8:00:06 PM	22	5.00	32	5	37	139.12
1	10/18/2021	8:06:28 PM	23	5.00	25	4	29	163.63
1	10/18/2021	8:12:09 PM	24	5.00	14497	35595	50093	1023.73

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 712	Serial No. 66666 172178	Radiation Detected Gamma
Authorized User Xiaofeng Guo	Date 10/18/21	Time 4:23 16:23	Swipe Instrument Quantasmat	Serial No. 073396	Radiation Detected Beta/Gamma
Reactor Status (Check One) ON <input type="checkbox"/> OFF <input checked="" type="checkbox"/>		LSC Printout Date 16/18/21			

Survey #	Location	CPM	Swipe # and Locations
1	Background	120	
2	Elevator Entrance	100	
3	South Floor	100	
4	RAM Safe	420	
5	East Lab Floor	90	
6	North Bench Top	100	
7	West Floor	75	
8	Work Platform	90	
9	Calorimeter	100	
10	Computers	80	
11	DSC/TGA	100	
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: NH	Date: 10/18/21	Notes
Swiped By: NH	Date: 10/18/21	
Reviewed By: JC	Date: 10/26/21	

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

