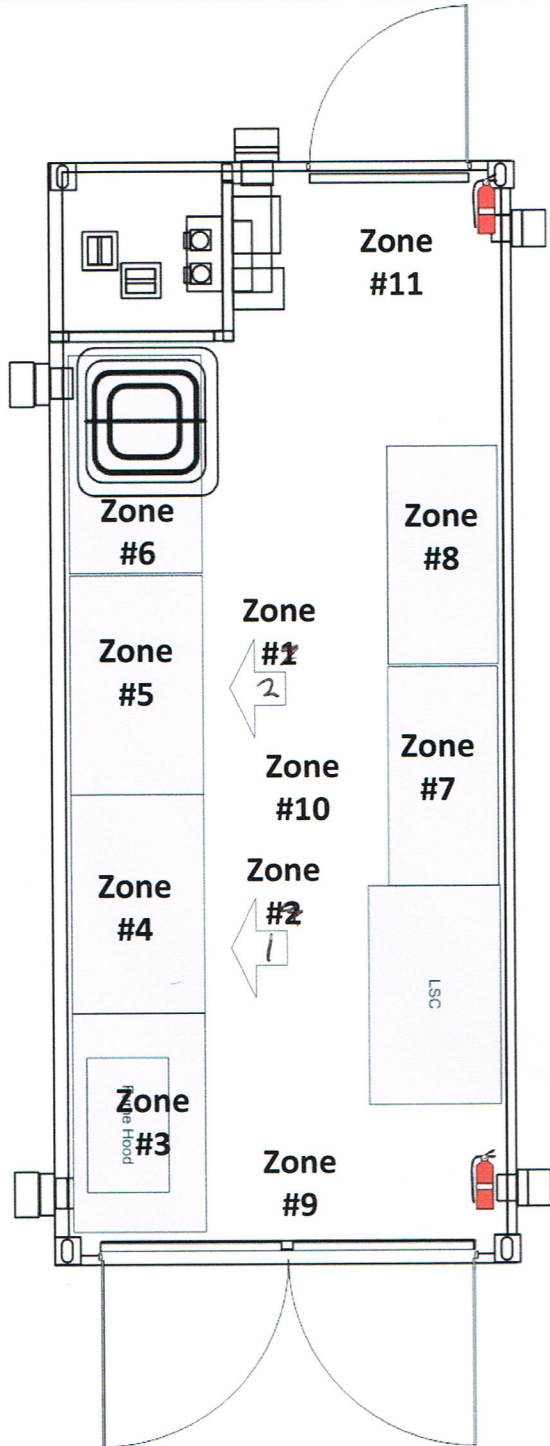


SWAB TEST PLAN ISOTOPE LAB

S/N for van 2408-04

Propose:
This plan is to be used to define the zone to be tested during a SWAB test. Each zone used is to be wipe tested. This will ensure that each PI has an opportunity to detect spills & define back-round noise, allowing the clean up procedure to be used where needed.

ANY AREA EXCEEDING 100 DMP MUST BE CLEANED and RE-TESTED



ZONE #1	Inside freezer & handle of door	Vial / DPMA / DPMB / DPMC / _ / 58 / 18 / _
ZONE #2	Inside refrigerator & handle of door	Vial / DPMA / DPMB / DPMC / _ / 45 / 24 / _
ZONE #3	Wooden counter top & fume hood	Vial / DPMA / DPMB / DPMC / _ / 54 / 26 / _
ZONE #4	Wooden counter top	Vial / DPMA / DPMB / DPMC / _ / 55 / 16 / _
ZONE #5	Wooden counter top	Vial / DPMA / DPMB / DPMC / _ / 47 / 15 / _
ZONE #6	Wooden counter top	Vial / DPMA / DPMB / DPMC / _ / 36 / 28 / _
ZONE #7	Wooden counter top	Vial / DPMA / DPMB / DPMC / _ / 29 / 18 / _
ZONE #8	Wooden counter top	Vial / DPMA / DPMB / DPMC / _ / 37 / 26 / _
ZONE #9	Floor & door handle entrance	Vial / DPMA / DPMB / DPMC / _ / 38 / 23 / _
ZONE #10	Middle floor	Vial / DPMA / DPMB / DPMC / _ / 31 / 25 / _
ZONE #11	Floor & door handle entrance	Vial / DPMA / DPMB / DPMC / _ / 52 / 24 / _
ZONE #12	Stainless steel tray zone 4	Vial / DPMA / DPMB / DPMC / _ / 65 / 17 / _
ZONE #13	Stainless steel tray zone 5	Vial / DPMA / DPMB / DPMC / _ / 78 / 14 / _
ZONE #14	Science option fume hood tray	Vial / DPMA / DPMB / DPMC / _ / 37 / 16 / _
ZONE #15	Science option	Vial / DPMA / DPMB / DPMC / _ / _ / _ / _
CONTROL		Vial / DPMA / DPMB / DPMC / _ / 49 / 18 / _

Cruise 12112 DK

Tester W. Tucker, T. Ciminsky

Pre Cruise

Date 4/9/12

Post cruise

P.I. D. Kirchman

R.S.O. W. Tucker

WIPE TEST PLAN ISOTOPE LAB

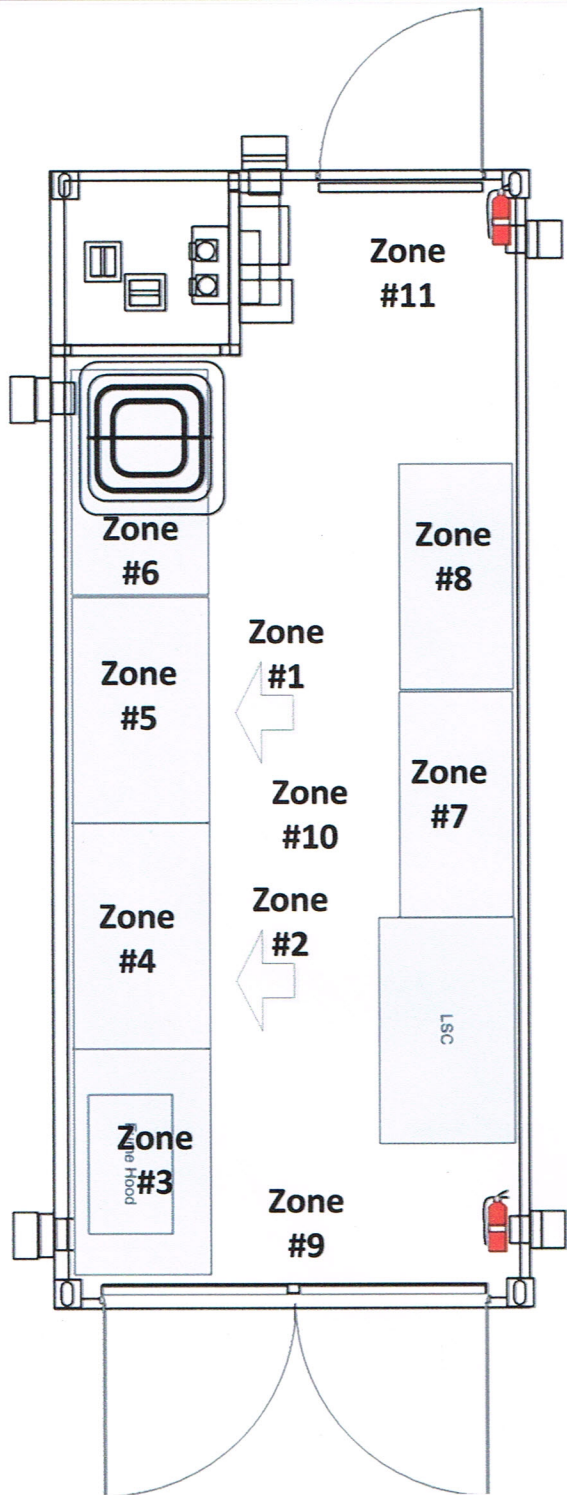
S/N for van

2408-04

Propose:

This plan is to be used to define the zone to be tested during a wipe test. Each zone used is to be wipe tested as described in the R/V HUGH R. SHARP Lab Safety Manual. This will ensure that each PI has an opportunity to detect spills & define back-round noise, allowing the clean up procedure to be used where needed.

ANY AREA EXCEEDING 100 DMP MUST BE CLEANED and RE-TESTED



ZONE #	Description	Vial	DPMA	DPMB	DPMC	SIS
#1	Inside freezer & handle of door	1	33			
#2	Inside refrigerator & handle of door	2	35			
#3	Wooden counter top & fume hood	3	22			
#4	Wooden counter top	4	29			
#5	Wooden counter top	5	22			
#6	Wooden counter top + sink	6	42			
#7	Wooden counter top	7	28			
#8	Wooden counter top	8	33			
#9	Floor & door handle entrance	9	30			
#10	Middle floor	10	26			
#11	Floor & door handle entrance	11	27			
#12	Stainless steel tray	12	22			
#13	Stainless steel tray					
#14	Science option					
#15	Science option					
	CONTROL					

Pre Cruise

Daily Cruise Test

Post cruise

Cruise WACS 2012
 Ron Brown

Date 8/28/12

P.I. Kimberly Halsy

R.S.O. _____

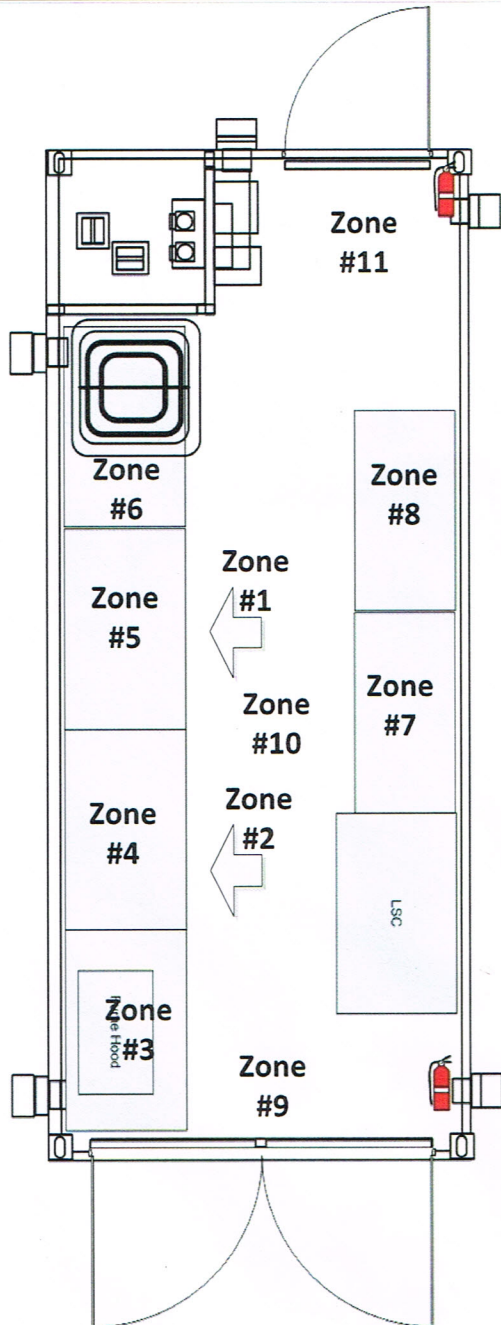
WIPE TEST PLAN ISOTOPE LAB

S/N for van 2408-04

Propose:

This plan is to be used to define the zone to be tested during a wipe test. Each zone used is to be wipe tested. This will ensure that each PI has an opportunity to detect spills & define back-round noise, allowing the clean up procedure to be used where needed.

ANY AREA EXCEEDING 100 DMP MUST BE CLEANED and RE-TESTED



ZONE #1	Inside freezer & handle of door	Vial / ^{DPMA DPMB} DPMA / DPMB / DPMC / <u>27</u> / <u>25</u> / <u> </u> / <u> </u>
ZONE #2	Inside refrigerator & handle of door	Vial / DPMA / DPMB / DPMC / <u>2</u> / <u>34</u> / <u>29</u> / <u> </u> / <u> </u>
ZONE #3	Wooden counter top & fume hood	Vial / DPMA / DPMB / DPMC / <u>3</u> / <u>45</u> / <u>33</u> / <u> </u> / <u> </u>
ZONE #4	Wooden counter top	Vial / DPMA / DPMB / DPMC / <u>4</u> / <u>46</u> / <u>37</u> / <u> </u> / <u> </u>
ZONE #5	Wooden counter top	Vial / DPMA / DPMB / DPMC / <u>5</u> / <u>31</u> / <u>29</u> / <u> </u> / <u> </u>
ZONE #6	Wooden counter top + Sink	Vial / DPMA / DPMB / DPMC / <u>6</u> / <u>50</u> / <u>45</u> / <u> </u> / <u> </u>
ZONE #7	Wooden counter top	Vial / DPMA / DPMB / DPMC / <u>7</u> / <u>29</u> / <u>25</u> / <u> </u> / <u> </u>
ZONE #8	Wooden counter top	Vial / DPMA / DPMB / DPMC / <u>8</u> / <u>27</u> / <u>23</u> / <u> </u> / <u> </u>
ZONE #9	Floor & door handle entrance	Vial / DPMA / DPMB / DPMC / <u>9</u> / <u>30</u> / <u>27</u> / <u> </u> / <u> </u>
ZONE #10	Middle floor	Vial / DPMA / DPMB / DPMC / <u>10</u> / <u>30</u> / <u>21</u> / <u> </u> / <u> </u>
ZONE #11	Floor & door handle entrance	Vial / DPMA / DPMB / DPMC / <u>11</u> / <u>25</u> / <u>19</u> / <u> </u> / <u> </u>
ZONE #12	Stainless steel tray Light switch	Vial / DPMA / DPMB / DPMC / <u>12</u> / <u>25</u> / <u>22</u> / <u> </u> / <u> </u>
ZONE #13	Stainless steel tray LSC/computer	Vial / DPMA / DPMB / DPMC / <u> </u> / <u> </u> / <u> </u> / <u> </u> / <u> </u>
ZONE #14	Science option	Vial / DPMA / DPMB / DPMC / <u> </u> / <u> </u> / <u> </u> / <u> </u> / <u> </u>
ZONE #15	Science option	Vial / DPMA / DPMB / DPMC / <u> </u> / <u> </u> / <u> </u> / <u> </u> / <u> </u>
CONTROL		Vial / DPMA / DPMB / DPMC / <u> </u> / <u> </u> / <u> </u> / <u> </u> / <u> </u>

Pre Cruise Cruise WACS/Ron Brown

Daily Cruise Test Date 8/17/12

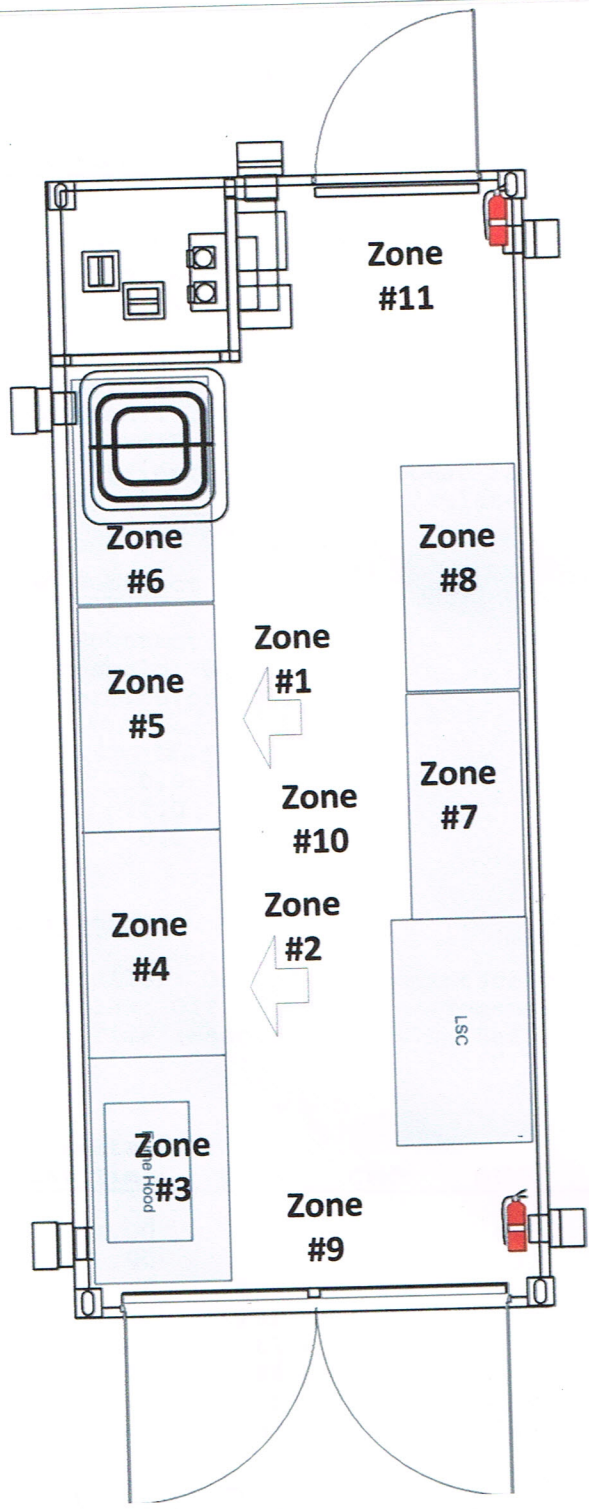
Post cruise P.I. Kim Halsay

R.S.O. _____

WIPE TEST PLAN ISOTOPE LAB

Propose:
 This plan is to be used to define the zone to be tested during a wipe test. Each zone used is to be wipe tested as described in the R/V HUGH R. SHARP Lab Safety Manual. This will ensure that each PI has an opportunity to detect spills & define back-round noise, allowing the clean up procedure to be used where needed.

ANY AREA EXCEEDING 100 DMP MUST BE CLEANED and RE-TESTED



ZONE	Description	Vial	DPMA	DPMB	DPMC	SIS
#1	Inside freezer & handle of door	2	948	11		186.57
#2	Inside refrigerator & handle of door	3	2295	28		142.52
#3	Wooden counter top & fume hood	4	301	18		135.82
#4	Wooden counter top					
#5	Wooden counter top					
#6	Wooden counter top (SINK)	5	679	17		121.06
#7	Wooden counter top					
#8	Wooden counter top					
#9	Floor & door handle entrance	6	191	22		279.1
#10	Middle floor	7	160	23		422.6
#11	Floor & door handle entrance	8	174	30		228.1
#12	Stainless steel tray					
#13	Stainless steel tray					
#14	Science option <u>LSC lid</u>	9	141	17		136.2
#15	Science option					
	CONTROL	1	27	29		156.6

Pre Cruise

Daily Cruise Test

Post cruise

Cruise HRS/20808DK

Date 8/11/12

P.I. David Kirchman

R.S.O. Nick Short

① *All Zones are "Hot", going to clean everything and retest *

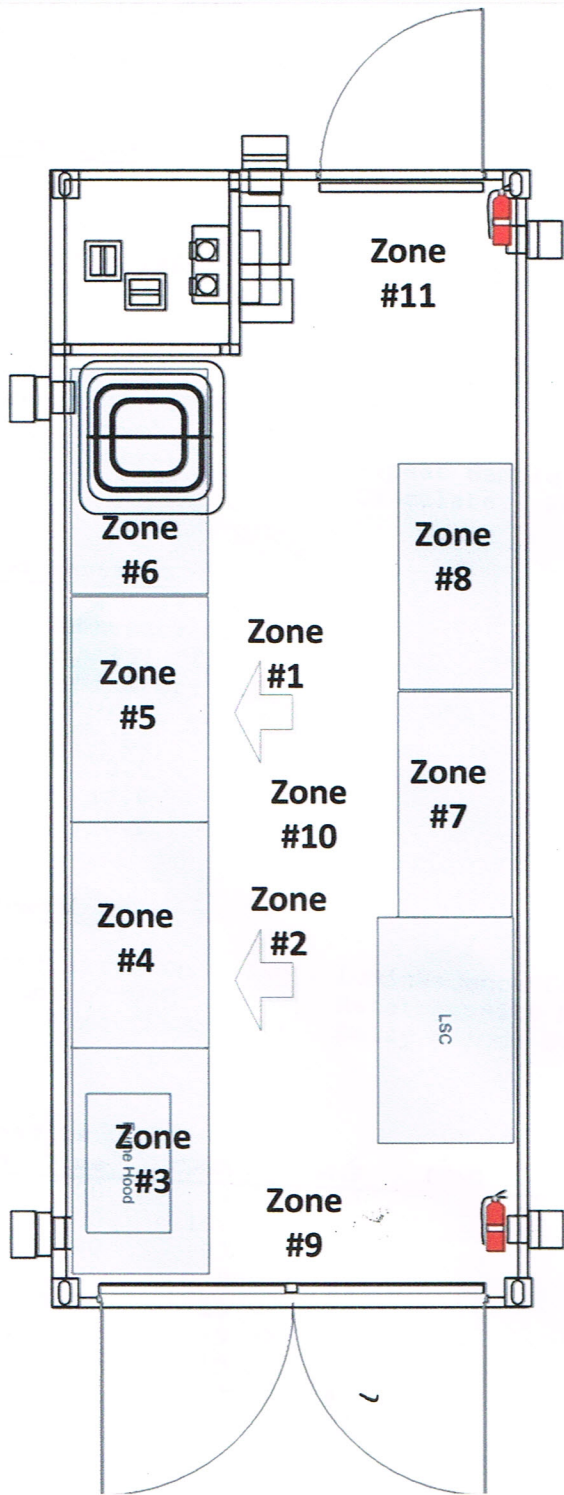
WIPE TEST PLAN ISOTOPE LAB

S/N for van 2408-04

Propose:
 This plan is to be used to define the zone to be tested during a wipe test. Each zone used is to be wipe tested as described in the R/V HUGH R. SHARP Lab Safety Manual. This will ensure that each PI has an opportunity to detect spills & define back-round noise, allowing the clean up procedure to be used where needed.

ANY AREA EXCEEDING 100 DMP MUST BE CLEANED and RE-TESTED

ZONE #1	Inside freezer & handle of door	Vial / DPMA / DPMB / DPMC / SIS <u>2 / 40 / 16 / 185.6</u>
ZONE #2	Inside refrigerator & handle of door	Vial / DPMA / DPMB / DPMC / SIS <u>3 / 182 / 26 / 129.4</u>
ZONE #3	Wooden counter top & fume hood	Vial / DPMA / DPMB / DPMC / SIS <u>4 / 15 / 25 / 1647</u>
ZONE #4	Wooden counter top	Vial / DPMA / DPMB / DPMC / SIS _____
ZONE #5	Wooden counter top	Vial / DPMA / DPMB / DPMC / SIS _____
ZONE #6	Wooden counter top (SINK)	Vial / DPMA / DPMB / DPMC / SIS <u>5 / 29 / 21 / 1737.8</u>
ZONE #7	Wooden counter top	Vial / DPMA / DPMB / DPMC / SIS _____
ZONE #8	Wooden counter top	Vial / DPMA / DPMB / DPMC / SIS _____
ZONE #9	Floor & door handle entrance	Vial / DPMA / DPMB / DPMC / SIS <u>6 / 39 / 18 / 1777</u>
ZONE #10	Middle floor	Vial / DPMA / DPMB / DPMC / SIS <u>7 / 43 / 18 / 1251.5</u>
ZONE #11	Floor & door handle entrance	Vial / DPMA / DPMB / DPMC / SIS <u>8 / 44 / 21 / 1439</u>
ZONE #12	Stainless steel tray	Vial / DPMA / DPMB / DPMC / SIS _____
ZONE #13	Stainless steel tray	Vial / DPMA / DPMB / DPMC / SIS _____
ZONE #14	Science option <u>LSC Lid</u>	Vial / DPMA / DPMB / DPMC / SIS <u>9 / 44 / 32 / 1630.3</u>
ZONE #15	Science option _____	Vial / DPMA / DPMB / DPMC / SIS _____
CONTROL		Vial / DPMA / DPMB / DPMC / SIS <u>1 / 26 / 23 / 1648</u>



Pre Cruise

Daily Cruise Test

Post cruise

Cruise HRS120808DK

Date 8/11/12

P.I. David Kirchman

R.S.O. Nick Short

(2) * Test after cleaning all zones *
 * Results - Going to reclean refrigerator + freezer *

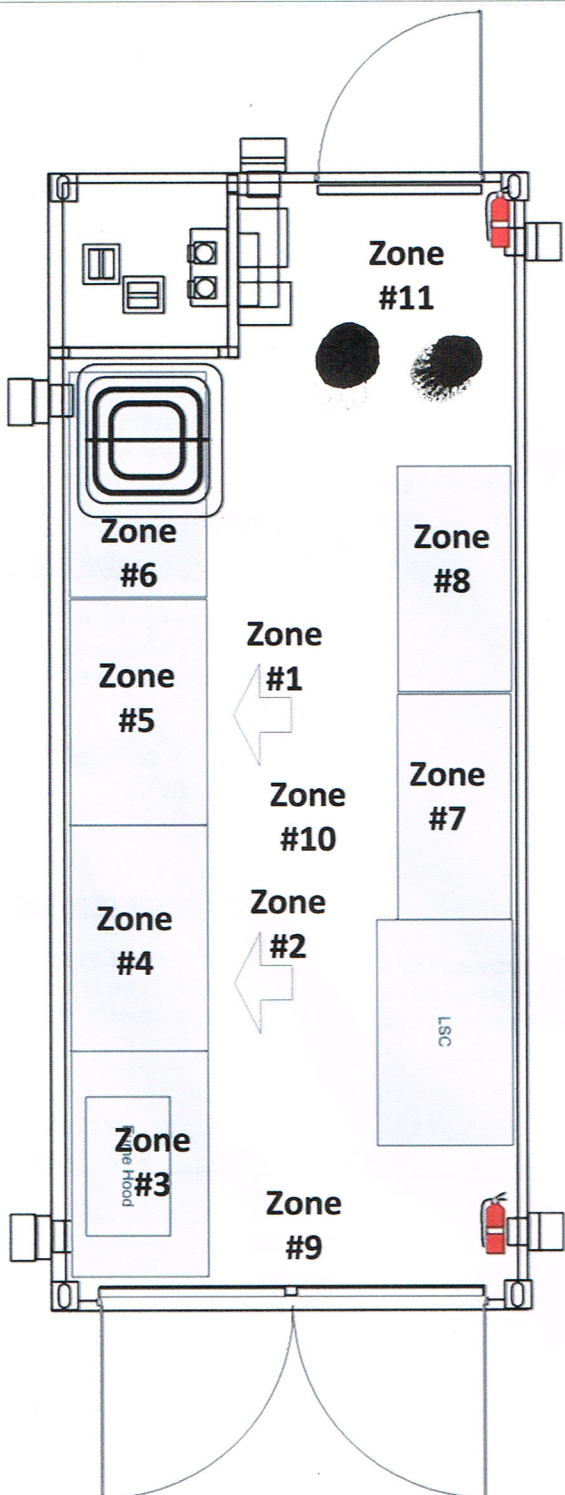
WIPE TEST PLAN ISOTOPE LAB

S/N for van 2408-04

Propose:

This plan is to be used to define the zone to be tested during a wipe test. Each zone used is to be wipe tested as described in the R/V HUGH R. SHARP Lab Safety Manual. This will ensure that each PI has an opportunity to detect spills & define back-round noise, allowing the clean up procedure to be used where needed.

ANY AREA EXCEEDING 100 DMP MUST BE CLEANED and RE-TESTED



ZONE	Description	Vial / DPMA / DPMB / DPMC / SIS
#1	Inside freezer & handle of door	<u>1</u> / <u>145</u> / <u>16</u> / <u>1416</u> / <u>9</u>
#2	Inside refrigerator & handle of door	<u>2</u> / <u>28</u> / <u>25</u> / <u>809</u> / <u>9</u>
#3	Wooden counter top & fume hood	___ / ___ / ___ / ___ / ___
#4	Wooden counter top	___ / ___ / ___ / ___ / ___
#5	Wooden counter top	___ / ___ / ___ / ___ / ___
#6	Wooden counter top	___ / ___ / ___ / ___ / ___
#7	Wooden counter top	___ / ___ / ___ / ___ / ___
#8	Wooden counter top	___ / ___ / ___ / ___ / ___
#9	Floor & door handle entrance	___ / ___ / ___ / ___ / ___
#10	Middle floor	___ / ___ / ___ / ___ / ___
#11	Floor & door handle entrance	___ / ___ / ___ / ___ / ___
#12	Stainless steel tray	___ / ___ / ___ / ___ / ___
#13	Stainless steel tray	___ / ___ / ___ / ___ / ___
#14	Science option	___ / ___ / ___ / ___ / ___
#15	Science option	___ / ___ / ___ / ___ / ___

CONTROL BLANK Vial / DPMA / DPMB / DPMC / SIS 24 / 23 / 718 / 6

Pre Cruise **Cruise** HRS120808DK

Daily Cruise Test **Date** 8/11/12

Post cruise **P.I.** David Kirchman

R.S.O. Nick Short

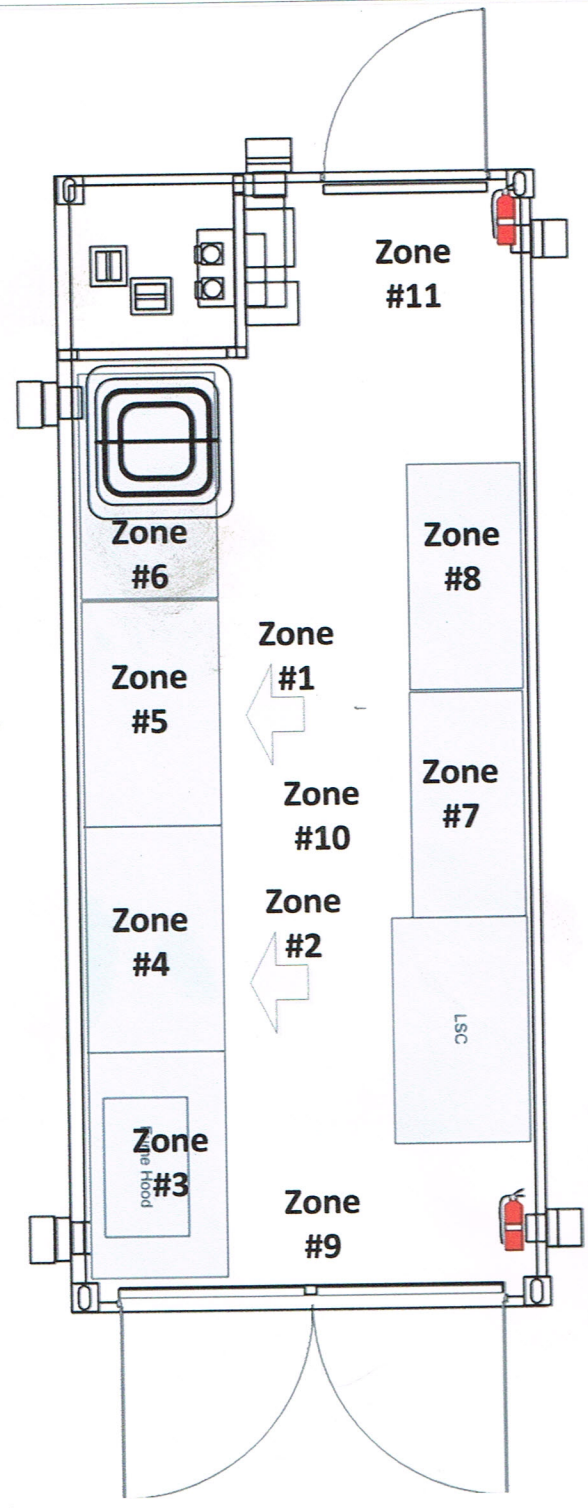
③ * 2nd Cleaning, cleaned Zones 1 + 2, refrigerator and freezer again.

WIPE TEST PLAN ISOTOPE LAB

S/N for van 2408-04

Propose:
 This plan is to be used to define the zone to be tested during a wipe test. Each zone used is to be wipe tested as described in the R/V HUGH R. SHARP Lab Safety Manual. This will ensure that each PI has an opportunity to detect spills & define back-round noise, allowing the clean up procedure to be used where needed.

ANY AREA EXCEEDING 100 DMP MUST BE CLEANED and RE-TESTED



ZONE #1	Inside freezer & handle of door	Vial / DPMA / DPMB / DPMC / SIS <u>21</u> <u>36</u> <u>19</u> <u> </u> <u> </u>
ZONE #2	Inside refrigerator & handle of door	Vial / DPMA / DPMB / DPMC / SIS <u>29</u> <u>23</u> <u>26</u> <u> </u> <u> </u>
ZONE #3	Wooden counter top & fume hood	Vial / DPMA / DPMB / DPMC / SIS <u>23</u> <u>31</u> <u>15</u> <u> </u> <u> </u>
ZONE #4	^{stainless} Wooden counter top	Vial / DPMA / DPMB / DPMC / SIS <u>24</u> <u>14</u> <u>9</u> <u> </u> <u> </u>
ZONE #5	^{stainless} Wooden counter top	Vial / DPMA / DPMB / DPMC / SIS <u>26</u> <u>24</u> <u>29</u> <u> </u> <u> </u>
ZONE #6	^{stainless} Wooden counter top	Vial / DPMA / DPMB / DPMC / SIS <u>26</u> <u>21</u> <u>22</u> <u> </u> <u> </u>
ZONE #7	Wooden counter top	Vial / DPMA / DPMB / DPMC / SIS <u>27</u> <u>29</u> <u>30</u> <u> </u> <u> </u>
ZONE #8	Wooden counter top	Vial / DPMA / DPMB / DPMC / SIS <u>28</u> <u>24</u> <u>12</u> <u> </u> <u> </u>
ZONE #9	Floor & door handle entrance	Vial / DPMA / DPMB / DPMC / SIS <u>29</u> <u>21</u> <u>16</u> <u> </u> <u> </u>
ZONE #10	Middle floor	Vial / DPMA / DPMB / DPMC / SIS <u>210</u> <u>22</u> <u>24</u> <u> </u> <u> </u>
ZONE #11	Floor & door handle entrance	Vial / DPMA / DPMB / DPMC / SIS <u>211</u> <u>44</u> <u>22</u> <u> </u> <u> </u>
ZONE #12	Stainless steel tray	Vial / DPMA / DPMB / DPMC / SIS <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>
ZONE #13	Stainless steel tray	Vial / DPMA / DPMB / DPMC / SIS <u>213</u> <u> </u> <u> </u> <u> </u> <u> </u>
ZONE #14	Science option	Vial / DPMA / DPMB / DPMC / SIS <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>
ZONE #15	Science option	Vial / DPMA / DPMB / DPMC / SIS <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>
	CONTROL	Vial / DPMA / DPMB / DPMC / SIS <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>
<input type="checkbox"/>	Pre Cruise	Cruise <u>#RS120401GL</u>
<input type="checkbox"/>	Daily Cruise Test	Date <u>11/7/12</u>
<input type="checkbox"/>	Post cruise	P.I. <u>Luther</u>
		R.S.O. <u> </u>

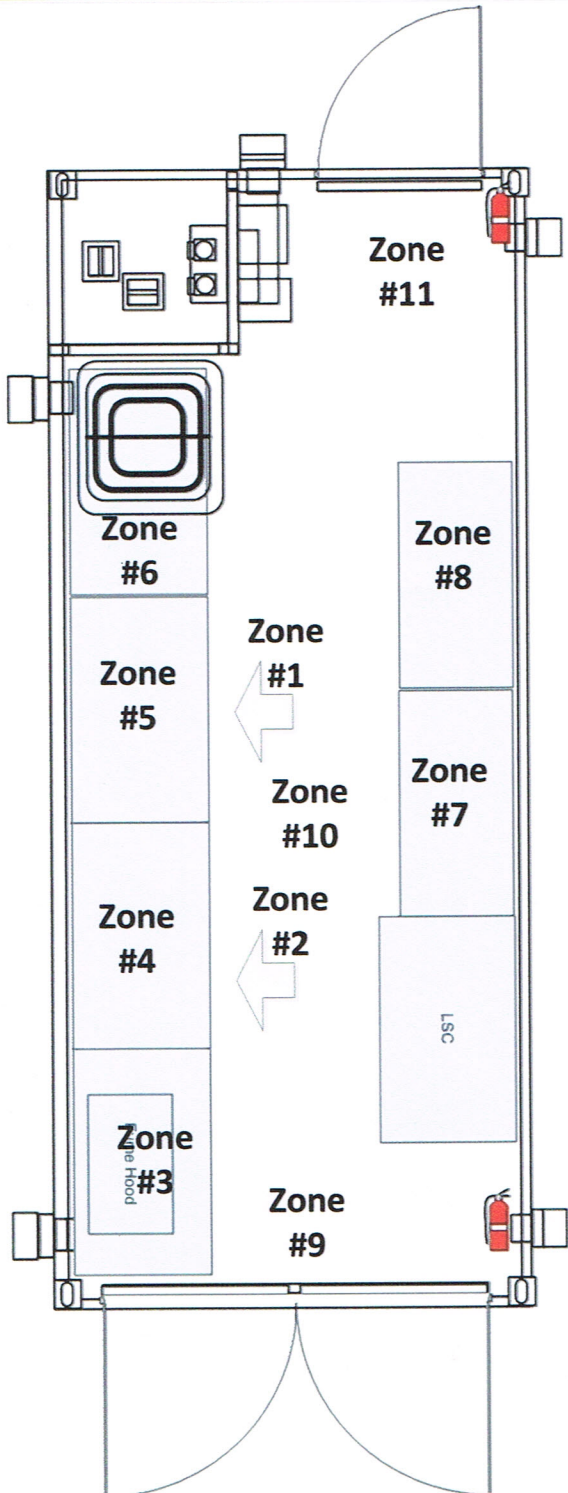
WIPE TEST PLAN ISOTOPE LAB

S/N for van _____

Propose:

This plan is to be used to define the zone to be tested during a wipe test. Each zone used is to be wipe tested as described in the R/V HUGH R. SHARP Lab Safety Manual. This will ensure that each PI has an opportunity to detect spills & define back-round noise, allowing the clean up procedure to be used where needed.

ANY AREA EXCEEDING 100 DMP MUST BE CLEANED and RE-TESTED



ZONE #	Description	Vial	DPMA	DPMB	DPMC	SIS
#1	Inside freezer & handle of door	21	35	23		
#2	Inside refrigerator & handle of door	28	22	22		
#3	Wooden counter top & fume hood	23	37	24		
#4	Wooden counter top	21	28	22		
#5	Wooden counter top	25	15	30		
#6	Wooden counter top	26	14	18		
#7	Wooden counter top	28	23	23		
#8	Wooden counter top	28	29	30		
#9	Floor & door handle entrance	25	28	15		
#10	Middle floor	20	21	30		
#11	Floor & door handle entrance	24	26	14		
#12	Stainless steel tray					
#13	Stainless steel tray					
#14	Science option					
#15	Science option					
	CONTROL					

Pre Cruise

Daily Cruise Test

Post cruise

Cruise HRS 1004018L

Date 4/4/18

P.I. Leather

R.S.O. _____

WIPE TEST PLAN ISOTOPE LAB

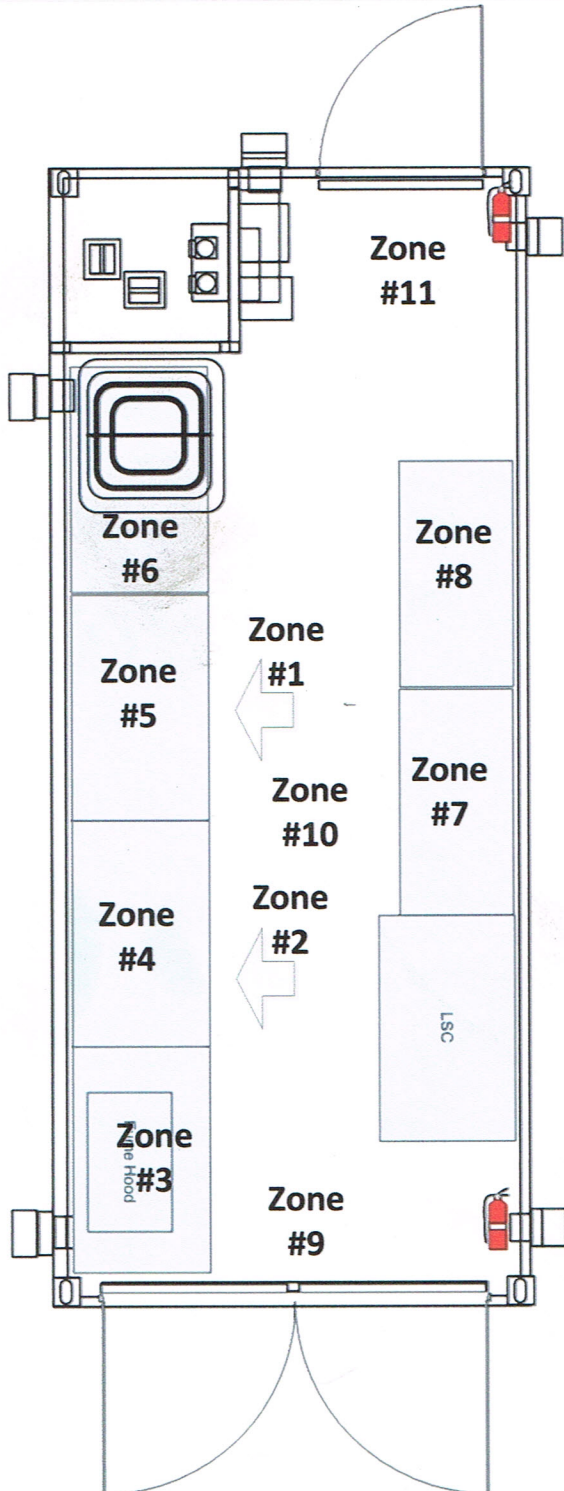
S/N for van

2408-04

Propose:

This plan is to be used to define the zone to be tested during a wipe test. Each zone used is to be wipe tested as described in the R/V HUGH R. SHARP Lab Safety Manual. This will ensure that each PI has an opportunity to detect spills & define back-round noise, allowing the clean up procedure to be used where needed.

ANY AREA EXCEEDING 100 DMP MUST BE CLEANED and RE-TESTED



ZONE #	Description	Vial	DPMA	DPMB	DPMC	SIS
#1	Inside freezer & handle of door	21	36	19		
#2	Inside refrigerator & handle of door	29	23	26		
#3	Wooden counter top & fume hood	23	31	15		
#4	^{stainless} Wooden counter top	24	14	9		
#5	^{stainless} Wooden counter top	26	24	29		
#6	^{stainless} Wooden counter top	26	2	22		
#7	Wooden counter top	27	29	30		
#8	Wooden counter top	28	24	12		
#9	Floor & door handle entrance	29	21	16		
#10	Middle floor	20	22	24		
#11	Floor & door handle entrance	20	44	22		
#12	Stainless steel tray					
#13	Stainless steel tray	7				
#14	Science option					
#15	Science option					
	CONTROL					

Pre Cruise

Daily Cruise Test

Post cruise

Cruise HRS120401GL

Date 1/8/12

P.I. Luther

R.S.O. _____

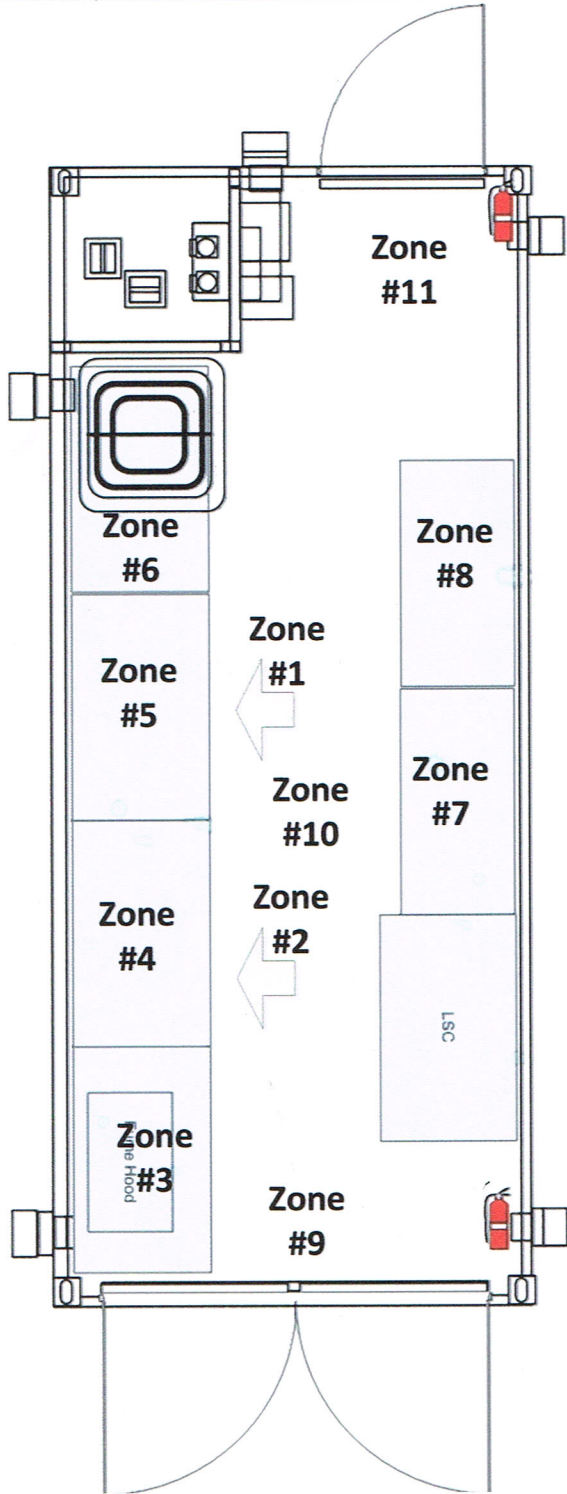
WIPE TEST PLAN ISOTOPE LAB

S/N for van 2408-04

Propose:

This plan is to be used to define the zone to be tested during a wipe test. Each zone used is to be wipe tested as described in the R/V HUGH R. SHARP Lab Safety Manual. This will ensure that each PI has an opportunity to detect spills & define back-round noise, allowing the clean up procedure to be used where needed.

ANY AREA EXCEEDING 100 DMP MUST BE CLEANED and RE-TESTED



ZONE #1	Inside freezer & handle of door	Vial / DPMA / DPMB / DPMC / SIS <u>1 / 21 / 21 /</u>
ZONE #2	Inside refrigerator & handle of door	Vial / DPMA / DPMB / DPMC / SIS <u>2 / 32 / 21 /</u>
ZONE #3	Wooden counter top & fume hood	Vial / DPMA / DPMB / DPMC / SIS <u>3 / 25 / 15 /</u>
ZONE #4	Wooden counter top	Vial / DPMA / DPMB / DPMC / SIS <u>4 / 22 / 20 /</u>
ZONE #5	Wooden counter top	Vial / DPMA / DPMB / DPMC / SIS <u>5 / 18 / 18 /</u>
ZONE #6	Wooden counter top	Vial / DPMA / DPMB / DPMC / SIS <u>6 / 24 / 28 /</u>
ZONE #7	Wooden counter top	Vial / DPMA / DPMB / DPMC / SIS <u>7 / 28 / 22 /</u>
ZONE #8	Wooden counter top	Vial / DPMA / DPMB / DPMC / SIS <u>8 / 19 / 22 /</u>
ZONE #9	Floor & door handle entrance	Vial / DPMA / DPMB / DPMC / SIS <u>9 / 39 / 18 /</u>
ZONE #10	Middle floor	Vial / DPMA / DPMB / DPMC / SIS <u>10 / 25 / 26 /</u>
ZONE #11	Floor & door handle entrance	Vial / DPMA / DPMB / DPMC / SIS <u>11 / 21 / 19 /</u>
ZONE #12	Stainless steel tray	Vial / DPMA / DPMB / DPMC / SIS <u>12 / 17 / 20 /</u>
ZONE #13	Stainless steel tray	Vial / DPMA / DPMB / DPMC / SIS <u>13 / 25 / 19 /</u>
ZONE #14	Science option	Vial / DPMA / DPMB / DPMC / SIS <u> / / / / /</u>
ZONE #15	Science option	Vial / DPMA / DPMB / DPMC / SIS <u> / / / / /</u>
	CONTROL	Vial / DPMA / DPMB / DPMC / SIS <u> / / / / /</u>

Pre Cruise Cruise _____

Daily Cruise Test Date 6.20.11.

Post cruise P.I. _____

R.S.O. JL