



May 29, 2014

Materials Licensing Section  
U.S. Nuclear Regulatory Commission, Region III  
2443 Warrenville Road, Suite 210  
Lisle, Illinois 60532-4351

**Re: Amendment to Esperion Therapeutics, Inc. License No: 21-32115-02**

Greetings, Esperion Therapeutics, Inc. is requesting the following changes to NRC license 21-32115-02:

1. Amended the license originally for laboratory space Suite B, to a smaller laboratory area now defined as Suite B-1
2. Decommission/remove from the NRC license the south end of Suite B, now designated Suite B-2

The requested changes to Esperion's NRC license 21-32115-02 are for the laboratory facility Suite B located at 46701 Commerce Center Drive, Plymouth MI 48170. Esperion commissioned laboratory Suite B as part of NRC license No. 232115-02 dated March 23, 2009.

Suite B area is approximately 5000 ft<sup>2</sup>. To reduce the laboratory space, a wall is constructed to divide the laboratory into two areas now designated Suite B-1 at the North end and Suite B-2 at the South end. Suite B-1, highlighted in blue in Figure A, will be retained by Esperion and has an area of approximately 3000 ft<sup>2</sup>, and Suite B-2, highlighted in pink in Figure A, will not be retained and has an areas of approximately 2000 ft<sup>2</sup> (see Figure A, Page 5). The survey results for fixed and removable contamination in these areas are provided.

The total use of radioactivity in Suite B was 4 mCi and 41 mCi of 14C- and 3H-label, respectively. Use of radioactive material was permanently discontinued in the areas designated as Suite B-2 after February 2014 and temporarily for the area designated "work zone" on Figure A. On March 18, 2014, the survey for fixed and removable contamination was completed, to prepare for the safe construction of the wall. The wall construction was completed in May of 2014.

Esperion Therapeutics, Inc. (Esperion) conducted surveys of laboratory floor, bench and cabinet surfaces, sinks and sink traps contents (drain content and internal surfaces) for removable and fixed radioactive contamination in the areas designated as Suite B-1, Suite B-2 and in the area designated "work zone". The method used for survey of fixed contamination was Geiger-Muller with pancake probe instrument. Survey for removable contamination was performed by filter paper wipe of an area of approximately 100 cm<sup>2</sup>, followed by Tri-Carb liquid scintillation counter measurement.

The Geiger-Muller instrument was calibrated and the instrument performance was confirmed before use (instrument registered 100% and 0% scale upon activation). The performance of the Tri-Carb liquid scintillation counter was demonstrated by executing the internal Instrument Performance Assessment (IPA) test. The test was conducted using the Self-Normalization and Calibration (SNC) program with unquenched LSC standards (Unquench Standards: background, 3H and 14C; product number 6008500; S/N 157). The IPA report documents instrument performance (see attachment B, page 7). The compatibility of the Whatman® filter paper, Ultima Gold® scintillation cocktail and 7 mL scintillation vials for wipe testing was verified (Attachment C, Page 8). Periodical during wipe-test procedures assessments for background counts were performed.

The results from the fixed and removable contamination surveys are summarized. Fixed contamination readings above 200 counts or removable contamination above 200 DMP/100 cm<sup>2</sup> are symptomatic of potential contamination. The survey of the cabinet draws in Suite B-2 (see map in attachment G1, page 19), detected

46701 Commerce Center Drive  
Plymouth, MI 48170

removable contamination of 639 DPM/100cm<sup>2</sup> for draw #D8 (see attachment G2, Page 20, line #8). Note that counts were in the 3H-energy window. Expectedly, fixed contamination in draw #D8 was not detected by pancake probe as reported on the summary sheet (see attachment I4, Page 31). The region where removable contamination was detected was cleaned with soap and water and retested. Repeat wipe test taken from the same area did not detect removable contamination; see line #5 "Retest, Draw Face (#8)", attachment I3, Page 30.

The floor areas (E-13) surveyed in the internal laboratory in Suite B-2 (see attachment J1, Page 32) indicated removable contamination of 214 DPM/100cm<sup>2</sup> by wipe test (see attachment J2, Page 36). The LSC results from this section of the floor are reported on (Attachment J2, line #13, Page 36). The region where removable contamination was detected was cleaned with soap and water and retested for removable contamination. Repeat wipe test did not detect removable contamination; see attachment N1, line #1, Page 40. The fixed and removable contamination for floor area E-13 is reported on line #1 of summary sheet (see attachment N2, Page 41).

Two benches #6 and #30, in the internal laboratory (see attachment M1, Page 34) indicated removable contamination by wipe test of 439 and 212 DPM/100 cm<sup>2</sup>, see lines #78 and #102, respectively (see attachment L2, page 37). These regions were cleaned with soap and water and retested. Repeat wipe test did not detect removable contamination (attachment N1, lines #2 & #3, Page 40). Fixed and removable contamination was reported on summary sheet (attachment N2, lines #2 & #3, Page 41) and demonstrated absence of contamination.

After conducting the fixed Geiger-Muller survey and the removable wipe-test liquid scintillation survey of Suite B, the laboratory located in Plymouth MI, 48170, Commerce Center Drive, has no contamination to report.

I am requesting that NRC license 21-32115-02 be amended to define the use of radioactive materials to the laboratory area designated as Suite B-1. Decommission the area now defined as Suite B-2 (see map, Figure A, page 5), located at 46701 Commerce Center Drive, Plymouth MI 48170.

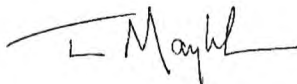
If you have questions, or if you require additional information that would facilitate your review, please contact Mr. Clay Cramer at (734) 887-3922 or (734) 546-4606.

Documents provided:

1. Table of contents (page 4)
2. Geiger-Muller calibration record (Model #GSM-500, Serial #13743) with pancake probe (Model #HP-265, Serial #10426) (Attachment A, Page 6)
3. Instrument Performance Assessment for Tri-Carb® instrument Model #2810 TR, Serial #117968 (Attachment B, Page 7).
4. System suitability test with Whatman® filters, Ultima Gold® scintillation cocktail and 7 mL scintillation vials. Data re five replicate measures (Attachment C, Page 8)
5. Monthly survey results for Suite B area B-1 (North end, Esperion is retaining occupancy); eight (8) areas surveyed were defined on map (Attachment D1, Page 9). Fixed contamination was surveyed by LSC of areas defined in (Attachment D2, Page 10-11)
6. Decommission survey for Suite B, region B-2 (South end, discontinuing occupancy)
  - a. The survey of the laboratory floor in Suite B-2 is defined in map "Chem Lab Floor" (Attachment E1, Page-12). Forty eight (48) areas of approximately 10 ft<sup>2</sup> were surveyed for fixed and removable contamination. Removable contamination was determined by LSC counts of wipe areas defined on map Attachment E1 and are listed (Attachment E2, Page 13-14). Three (3) background samples for contamination of gloves were included (see data lines #49-51). The summary sheet of Geiger-Muller (fixed) and wipe test/liquid scintillation (removable) contamination results are provided (Attachment E3, Page 15).

- b. The survey of the laboratory bench tops in Suite B-2 is defined in map "Bench Counter Tops" (Attachment F1, Page 16). Forty-five (45) areas were surveyed for fixed and removable contamination. Removable contamination was determined by LSC counts of wipe test areas defined in map attachment (F1, Page 16) and are reported (Attachment F2, Page 17). Three (3) background samples for contamination of gloves were included (see data lines #46-48; Attachment F2, Page 17). Lines #55 and #56 are 14C and 3H standards. The summary sheet of the wipe test/liquid scintillation and Geiger-Muller data are provided (Attachment F3, Page 18).
- c. The survey of the bench draw outside face and draw inside surfaces in Suite B-2 were defined in the same map "ChemLab Space" (Attachment G1, Page 19). Sixty-one (61) areas were surveyed for fixed and removable contamination. Removable contamination was determined by LSC counts of wipe test areas defined in (Attachment G2, Page 20-21) and (H1, Page 21-22). Three (3) background samples for potential contamination of gloves were included (see lines #62-64; Attachment G2, Page 21). Removable and fixed contamination of drawer face and inside bottom are reported in summary sheets, see Attachment (G3, Page 23) and (H2, Page 25) respectively.
- d. The two sinks in Suite B-2 corresponding to "A" and "B" on the map (Attachment I1, page 26) were surveyed for contamination. Removable contamination LSC Counts for the bottom inside of sink A and B are reported in Attachment I2, Page 27-28. Removable contamination was surveyed by wipe tests in the sink trap itself and the fluids from each sink trap (Attachment I3, lines #1-4, Pages 29-30), and (Attachment I3, line #5, Page 30). Fixed and removable contamination is reported on summary sheet (Attachment I4, Page 31)
- e. The interior lab storage room floor in Suite B-2 corresponds to map (Attachment J1, Page 32) was surveyed for contamination. Twenty-six (26) areas were surveyed for removable and fixed contamination. Removable contamination was determined by LSC counts of wipe tests of areas and two (2) back ground LSC wipe samples were taken from gloves (Attachment J2, Page 35-36). Fixed and removable contamination was reported on summary sheet (Attachment J3, lines #1 to #28, Page 42)
- f. The bench tops in interior lab storage room in Suite B-2 corresponds to map (Attachment K1, Page 33). Twenty-two (22) areas were surveyed for removable and fixed contamination. Removable contamination was determined by LSC counts of wipe test of areas (lines #37 -58 of attachment K2, page 36-37) and one (1) background LSC wipe sample was taken from gloves (line #59). Fixed and removable contamination was reported on summary sheet (Attachment K3, page 42)
- g. The draw faces within interior laboratory in Suite B-2 correspond to map (Attachment M1, Page 34). Thirty-four (34) areas labeled 1 to 34 on map were surveyed for removable and fixed contamination. Removable contamination was determined by LSC counts of wipe tests. The data are reported (Attachment L2, lines #73-106, Page 37) two (2) background LSC wipe sample were taken from gloves (Attachment L2, lines #107 and 108, Page 37). Fixed and removable contamination was reported on summary sheet (Attachment L3, Page 42)
- h. The inside draws bottoms within interior laboratory in Suite B-2 correspond to map (Attachment M1, Page 34). Thirty-four (34) areas were surveyed for removable and fixed contamination. Removable contamination was determined by LSC counts of wipe test areas (Attachment M2, lines #127-160, Page 38) and two (2) background LSC wipe sample was taken from gloves (Attachment M2, lines #161 and 162, Page 38). Fixed and removable contamination was reported on summary sheet (Attachment M3, Page 42-43).

Sincerely,

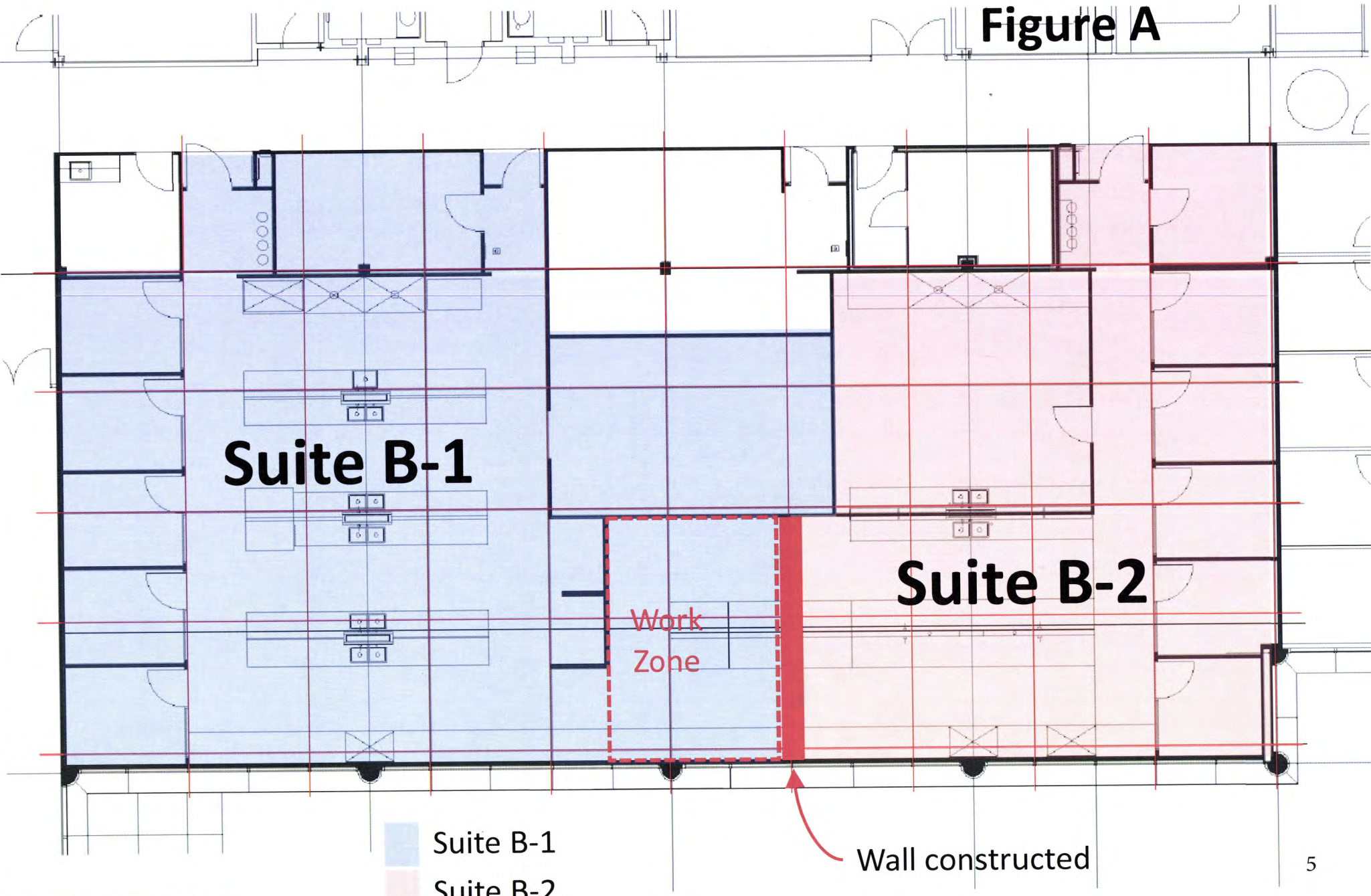


Tim Mayleben  
President and CEO  
Esperion Therapeutics, Inc.

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Figure A



Laboratory Plan GRID 10' X 10'

Client: Esperion  
Project: Existing Conditions  
Location: Plymouth, Michigan

Scale: 1/8" = 1'-0"

iDesign Solutions, LLC  
400 Water Street, Suite 111  
Rochester, MI 48307  
Architects, Scientists and Planners  
ph 248-440-7310  
www.IDesign-Solutions.info

Revisions	Project No.
0	1154-4
Issued	Sheet No.
03-07-14	1

# Certificate of Calibration



Calibration Location:  
3998 Commerce Circle  
Idaho Falls, ID 83401  
Ph: 208 523-5557



Customer: Esperion Therapeutics, Inc.

Att.: Clay Cramer

Address: Michigan Life Sciences Center, Suite B 46701 Chynoweth Center Drive

State: MI

Zip: 48170

Phone: 734-862-4842

Serial Number: 13743

Mfg: Johnson

Model: GSM-500

Probe Serial Number: 10426

Probe Mfg: Johnson

Probe Model: HP-265

Ref #: W8459-035180

Calibration Date: 29-Jan-2014

HP Dose Rate and Count Rate (2pi)

Calibration/Ver. Due Date: 29-Jan-2015

### Basic Information

Ambient Temperature 21.4	Pressure (hg) 25.64	Humidity (%) 8	Lab Elevation (ft) 4750	Background Reading (uR) 40
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### Dose Rate - Test Measurements

Source ID	Isotope	Scale/Range	Expected Reading	Reading Units	As Found Reading	As Left Reading	Tolerance +/- (%)	Pass/Fail	Uncertainty %
pulser		X1	40	uR	36	42	10	Pass	4.12
pulser		X1	160	uR	152	158	10	Pass	4.12
Shepherd	Cs 137	X10	0.4	mR	0.36	0.38	10	Pass	3
Shepherd	Cs 137	X10	1.6	mR	1.52	1.6	10	Pass	3
Shepherd	Cs 137	X100	4	mR	3.4	4	10	Pass	3
Shepherd	Cs 137	X100	16	mR	14.4	16.4	10	Pass	3
Shepherd	Cs 137	X1000	40	mR	32	40	10	Pass	3
Shepherd	Cs 137	X1000	160	mR	120	148	10	Pass	3

### Dose Rate - Comments

### Count Rate - As Found Pulser Linearity

Input (cpm)	Reading (cpm)	Tolerance (cpm)	High Voltage	Base Threshold	Window	Upper Threshold
10000	9500	[9000-11000]	906	45	N/A	N/A

### Count Rate - Probe Test Results

Source ID	Isotope	2pi Activity (cpm)	Observed (cpm)	Background (cpm)	Net (cpm)	Efficiency (%)
8917	Pu-239	11998	2000	60	1940	16.17
1489	Th-230	4985	750	60	690	13.84
4820	Cs-137	44132	15000	60	14940	33.85
4817	SrY-90	39800	12800	60	12740	32.01
4815	Tc-99	13402	4800	60	4740	35.37

### Count Rate - Comments

### Count Rate - Calibration Operational Checks

Reproducibility	Pass
High Voltage	OK
Geotropism	Pass
Zero Check	Pass
Calibration Constant	N/A
Dead Time	N/A
CALIBRATION RESULTS	Pass

### Calibration Instruments Information:

: Cs-137 : 4820 -- Cal. Date: 29-Jan-2013 -- 4pi CPM: 134959 -- 2pi CPM: 44132  
 : Pu-239 : 8917 -- Cal. Date: 29-Jan-2013 -- 4pi CPM: 23759 -- 2pi CPM: 11998  
 : SrY-90 : 4817 -- Cal. Date: 29-Jan-2013 -- 4pi CPM: 56857 -- 2pi CPM: 39800  
 : Tc-99 : 4815 -- Cal. Date: 29-Jan-2013 -- 4pi CPM: 21408 -- 2pi CPM: 13402  
 : Th-230 : 1489 -- Cal. Date: 29-Jan-2013 -- 4pi CPM: 9833 -- 2pi CPM: 4985  
 J. L. Shepherd : 81-10 Irradiator : 9004 -- Cal. Date: 05-Nov-2012  
 Ludlum : 500-4B Pulser : 163856 -- Cal. Date: 01-Oct-2012

Cal. Procedure: CP-PRO-244/171

Date of Service: 29-Jan-2014

Service Technician: Cody Brammer

This Certificate of Calibration shall not be reproduced except in full, without the written approval of Qal-Tek Associates  
 Results relate only to item calibrated. Uncertainty of measurement was estimated at approximately 95% confidence level, (k=2).  
 All reference standards used are traceable to NIST. Qal-Tek Associates maintains a quality system (Quality Assurance Management Plan) that meets or exceeds the requirements set forth in the following documents: ANSI / NGSL Z540-1 1994 and ISO / IEC 17025.

## Attachment B

Assay Definition

## Assay Description:

Basic dual DPM assay

Assay Type: DPM (Dual)

Report Name: Report1

Output Data Path: C:\Packard\Tricarb\Results\Default\3h\_14c\_dpm

Raw Results Path: C:\Packard\Tricarb\Results\Default\3h\_14c\_dpm\20140317\_1730\20140317\_1730.results

Comma-Delimited File Name: C:\Packard\Tricarb\Results\Default\3h\_14c\_dpm\Report1.txt

Assay File Name: C:\Packard\TriCarb\Assays\3h\_14c\_dpm.lsa

Count Conditions

Nuclide: 3H-14C

Quench Indicator: tSIE/AEC

External Std Terminator (sec): 0.5 2s%

Pre-Count Delay (min): 0.00

Quench Sets:

Low Energy: 3H

Mid Energy: 14C

Count Time (min): 5.00

Count Mode: Normal

Assay Count Cycles: 1

#Vials/Sample: 1

Repeat Sample Count: 1

Calculate % Reference: Off

Background Subtract

Background Subtract: Off

Low CPM Threshold: Off

2 Sigma % Terminator: On - Any Region

Regions	LL	UL	2Sigma % Terminator
A	0.0	12.0	0.40
B	12.0	156.0	0.40
C	0.0	0.0	0.00

Count Corrections

Static Controller: On

Colored Samples: Off

Coincidence Time (nsec): 18

Luminescence Correction: n/a

Heterogeneity Monitor: n/a

Delay Before Burst (nsec): 75

IPA Block Data

Software Version IC: 3.04

Software Version EC: 4.00

Instrument Model: Tri-Carb 2810TR

Instrument Serial Number: 117968

3H Chi Square: 28.09 Date Processed: 11/1/2013 7:49:45 PM

14C Chi Square: 17.95 Date Processed: 11/1/2013 7:49:45 PM

3H E<sup>2</sup>/B (1-18.6 keV): 294.16 Date Processed: 11/1/2013 7:49:45 PM14C E<sup>2</sup>/B (4-156 keV): 563.34 Date Processed: 11/1/2013 7:49:45 PM

3H Efficiency (1-18.6 keV): 61.40 Date Processed: 11/1/2013 7:49:45 PM

14C Efficiency (4-156 keV): 92.99 Date Processed: 11/1/2013 7:49:45 PM

IPA Background Date Processed: 11/1/2013 7:49:45 PM

3H Background CPM (1-18.6 keV): 12.82 Date Processed: 11/1/2013 7:49:45 PM

14C Background CPM (4-156 keV): 15.35 Date Processed: 11/1/2013 7:49:45 PM

Attachment C

Page 8

3H Calibration DPM: 262700  
 3H Reference Date: 4/1/2011  
 14C Calibration DPM: 136300

Cycle 1 Results

S#	Count	Time	CPMA	DPM1	CPMB	DPM2	SIS	tSIE	MESSAGES
1		5.00	19	39	6	5	764.94	570.87	
2		5.00	9	17	7	7	709.34	570.02	
3		5.00	14	28	8	8	637.87	558.93	
4		5.00	16	33	7	6	702.23	558.81	
5		5.00	16	32	8	7	937.05	562.49	
			$\bar{x}$	29.8			6.6		



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56

MATCH LINE

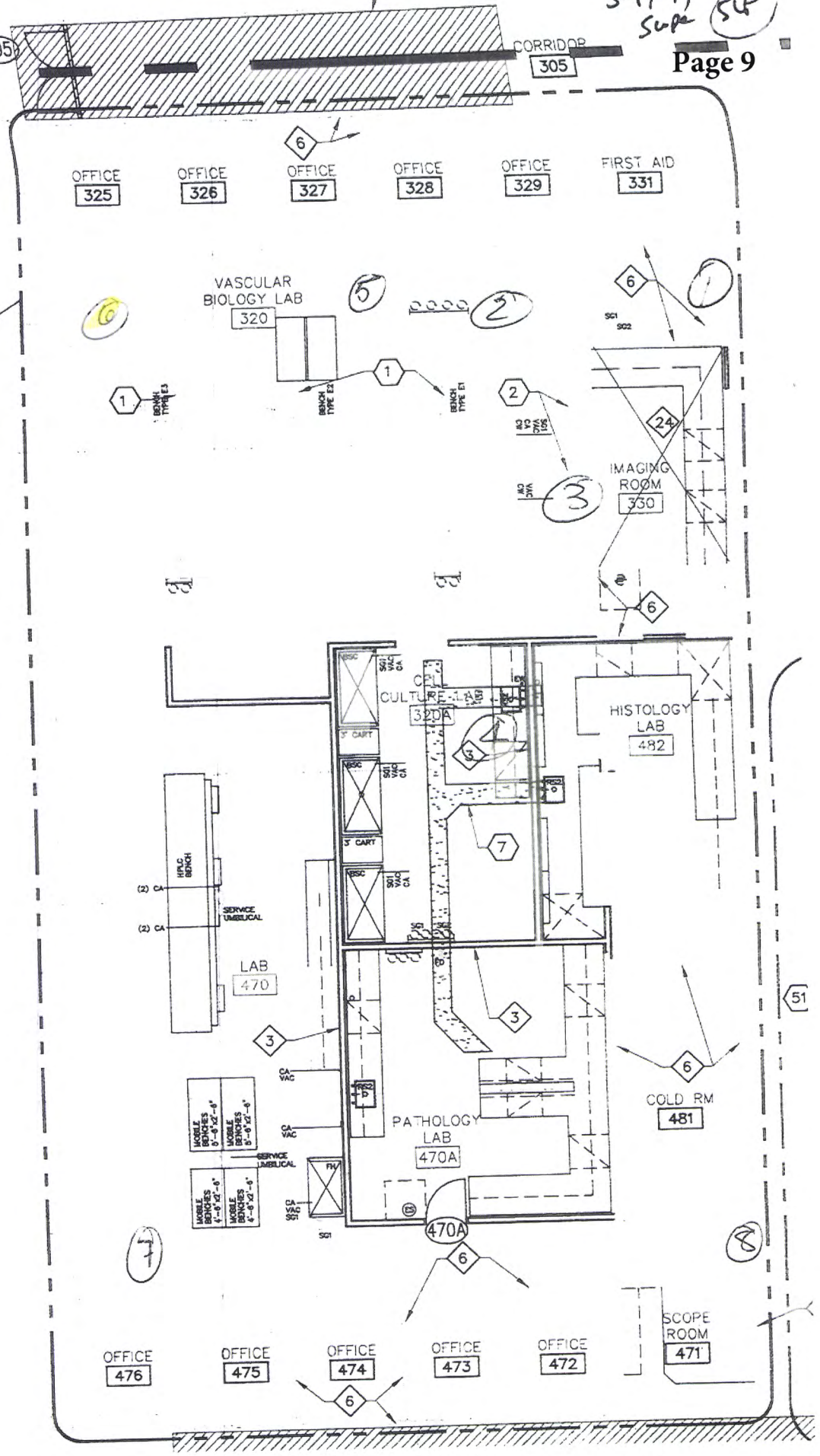
305

CORRIDOR  
305

Attachment D1

1  
A4.13

9 = Blank



51

7

8

Assay Definition

Assay Description:  
Basic dual DPM assay  
Assay Type: DPM (Dual)  
Report Name: Report1  
Output Data Path: C:\Packard\Tricarb\Results\Default\3h\_14c\_dpm  
Raw Results Path: C:\Packard\Tricarb\Results\Default\3h\_14c\_dpm\20140317\_1525\20140317\_1525.results  
Comma-Delimited File Name: C:\Packard\Tricarb\Results\Default\3h\_14c\_dpm\Report1.txt  
Assay File Name: C:\Packard\TriCarb\Assays\3h\_14c\_dpm.lsa

Count Conditions

Nuclide: 3H-14C  
Quench Indicator: tSIE/AEC  
External Std Terminator (sec): 0.5 2s%  
Pre-Count Delay (min): 0.00  
Quench Sets:  
Low Energy: 3H  
Mid Energy: 14C  
Count Time (min): 5.00  
Count Mode: Normal  
Assay Count Cycles: 1 Repeat Sample Count: 1  
#Vials/Sample: 1 Calculate % Reference: Off

Background Subtract

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

Regions	LL	UL	2Sigma % Terminator
A	0.0	12.0	0.40
B	12.0	156.0	0.40
C	0.0	0.0	0.00

Count Corrections

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

IPA Block Data

Software Version IC: 3.04  
Software Version EC: 4.00  
Instrument Model: Tri-Carb 2810TR  
Instrument Serial Number: 117968  
3H Chi Square: 28.09 Date Processed: 11/1/2013 7:49:45 PM  
14C Chi Square: 17.95 Date Processed: 11/1/2013 7:49:45 PM  
3H E<sup>2</sup>/B (1-18.6 keV): 294.16 Date Processed: 11/1/2013 7:49:45 PM  
14C E<sup>2</sup>/B (4-156 keV): 563.34 Date Processed: 11/1/2013 7:49:45 PM  
3H Efficiency (1-18.6 keV): 61.40 Date Processed: 11/1/2013 7:49:45 PM  
14C Efficiency (4-156 keV): 92.99 Date Processed: 11/1/2013 7:49:45 PM  
IPA Background Date Processed: 11/1/2013 7:49:45 PM  
3H Background CPM (1-18.6 keV): 12.82 Date Processed: 11/1/2013 7:49:45 PM  
14C Background CPM (4-156 keV): 15.35 Date Processed: 11/1/2013 7:49:45 PM

Attachment D2

3H Calibration DPM: 262700  
3H Reference Date: 4/1/2011  
14C Calibration DPM: 136300

10

Missing vial 11.  
Missing vial 12.  
Missing vial 13.  
Missing vial 14.  
Missing vial 15.  
Missing vial 16.  
Missing vial 17.  
Missing vial 18.

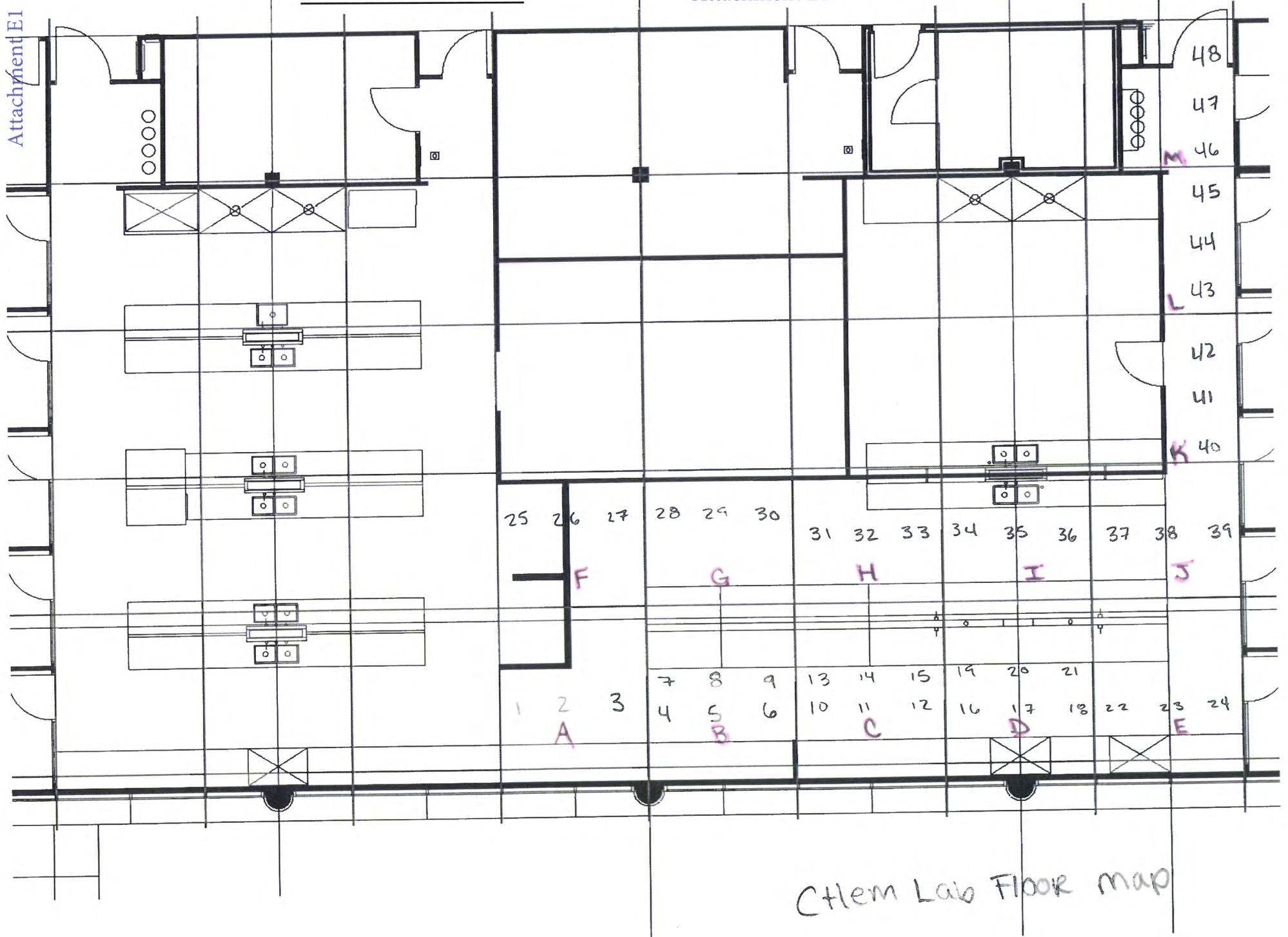
Lab Survey

Location #

19	5.00	21	45	8	7	677.87	546.51
20	5.00	23	48	9	7	610.05	541.13
21	5.00	28	59	10	8	610.35	536.92
22	5.00	23	49	9	8	764.75	548.41
23	5.00	20	41	9	8	706.91	550.88
24	5.00	24	52	7	5	708.08	551.51
25	5.00	21	44	8	6	604.81	541.00
26	5.00	27	56	10	9	455.32	547.65
27	5.00	25	52	10	8	772.65	558.43

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← 8-k

Attachment E1



Chem Lab Floor map

Attachment E2  
Page 13

Assay Definition

Assay Description:  
 Basic dual DPM assay  
 Assay Type: DPM (Dual)  
 Report Name: Report1  
 Output Data Path: C:\Packard\Tricarb\Results\Default\3h\_14c\_dpm  
 Raw Results Path: C:\Packard\Tricarb\Results\Default\3h\_14c\_dpm\20140317\_1730\20140317\_1730.results  
 Comma-Delimited File Name: C:\Packard\Tricarb\Results\Default\3h\_14c\_dpm\Report1.txt  
 Assay File Name: C:\Packard\TriCarb\Assays\3h\_14c\_dpm.lsa

Count Conditions

Nuclide: 3H-14C  
 Quench Indicator: tSIE/AEC  
 External Std Terminator (sec): 0.5 2s%  
 Pre-Count Delay (min): 0.00  
 Quench Sets:  
 Low Energy: 3H  
 Mid Energy: 14C  
 Count Time (min): 5.00  
 Count Mode: Normal  
 Assay Count Cycles: 1  
 #Vials/Sample: 1  
 Repeat Sample Count: 1  
 Calculate % Reference: Off

Background Subtract

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

Regions	LL	UL	2Sigma % Terminator
A	0.0	12.0	0.40
B	12.0	156.0	0.40
C	0.0	0.0	0.00

Count Corrections

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

IPA Block Data

Software Version IC: 3.04  
 Software Version EC: 4.00  
 Instrument Model: Tri-Carb 2810TR  
 Instrument Serial Number: 117968  
 3H Chi Square: 28.09 Date Processed: 11/1/2013 7:49:45 PM  
 14C Chi Square: 17.95 Date Processed: 11/1/2013 7:49:45 PM  
 3H E<sup>2</sup>/B (1-18.6 keV): 294.16 Date Processed: 11/1/2013 7:49:45 PM  
 14C E<sup>2</sup>/B (4-156 keV): 563.34 Date Processed: 11/1/2013 7:49:45 PM  
 3H Efficiency (1-18.6 keV): 61.40 Date Processed: 11/1/2013 7:49:45 PM  
 14C Efficiency (4-156 keV): 92.99 Date Processed: 11/1/2013 7:49:45 PM  
 IPA Background Date Processed: 11/1/2013 7:49:45 PM  
 3H Background CPM (1-18.6 keV): 12.82 Date Processed: 11/1/2013 7:49:45 PM  
 14C Background CPM (4-156 keV): 15.35 Date Processed: 11/1/2013 7:49:45 PM

Attachment E2

Page 14

3H Calibration DPM: 262700  
 3H Reference Date: 4/1/2011  
 14C Calibration DPM: 136300

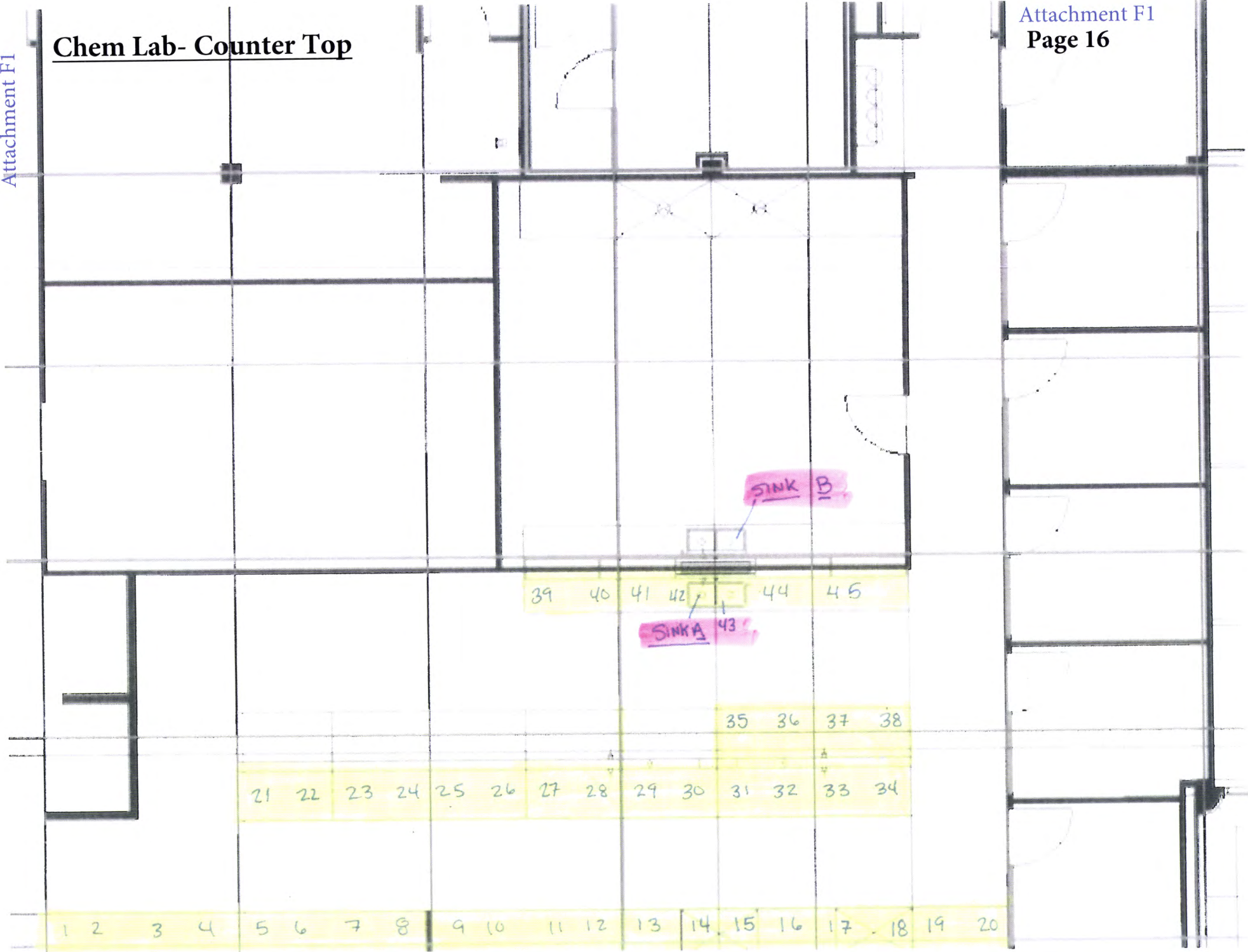
Cycle 1 Results

S#	Count	Time	CPMA	DPM1	CPMB	DPM2	SIS	tSIE	MESSAGES
1	5.00	12	23	9	9	747.13	557.85		
2	5.00	20	42	9	9	693.84	559.65		
3	5.00	12	24	8	9	920.67	552.08		
4	5.00	23	48	7	5	599.05	555.78		
5	5.00	21	45	8	7	652.44	553.94		
6	5.00	67	145	9	2	348.06	553.76		
7	5.00	9	17	9	10	1075.13	553.17		
8	5.00	12	23	10	10	910.66	558.47		
9	5.00	13	27	10	10	780.09	548.32		
10	5.00	14	28	10	10	530.37	553.88		
11	5.00	16	34	8	8	725.19	548.04		
12	5.00	14	27	11	11	646.74	549.85		
13	5.00	13	26	9	9	889.05	552.61		
14	5.00	18	37	9	9	845.99	550.19		
15	5.00	14	29	9	9	902.48	549.57		
16	5.00	16	32	10	10	708.98	555.30		
17	5.00	21	45	8	6	513.08	551.19		
18	5.00	18	36	8	8	821.87	554.08		
19	5.00	14	29	9	9	828.92	550.41		
20	5.00	16	31	11	11	685.54	559.04		
21	5.00	14	29	9	9	918.75	549.38		
22	5.00	17	35	11	11	752.67	552.55		
23	5.00	13	27	7	6	871.65	554.91		
24	5.00	13	27	8	8	701.71	548.20		
25	5.00	15	30	10	10	865.03	537.34		
26	5.00	13	25	9	10	720.30	543.95		
27	5.00	12	24	8	8	930.00	544.87		
28	5.00	12	23	10	11	909.99	553.48		
29	5.00	14	29	10	10	712.60	554.86		
30	5.00	14	28	9	9	876.60	551.92		
31	5.00	22	45	9	8	539.87	555.18		
32	5.00	12	23	11	12	794.02	547.73		
33	5.00	13	26	8	9	649.45	550.86		
34	5.00	13	26	9	9	844.08	546.90		
35	5.00	20	41	9	8	650.56	552.05		
36	5.00	28	59	10	8	450.29	548.82		
37	5.00	14	28	10	11	733.84	536.31		
38	5.00	15	30	10	10	718.95	547.24		
39	5.00	13	26	9	9	984.24	557.31		
40	5.00	16	32	9	9	731.73	547.89		
41	5.00	12	24	10	10	824.59	546.69		
42	5.00	15	31	9	9	804.72	543.51		
43	5.00	16	34	8	8	777.25	548.88		
44	5.00	15	30	8	8	738.61	552.31		
45	5.00	15	30	8	8	836.74	555.54		
46	5.00	13	27	8	8	987.44	553.35		
47	5.00	14	28	8	8	656.02	526.77		
48	5.00	16	34	7	7	743.80	539.31		
49	5.00	22	46	8	7	687.44	565.93		
50	5.00	24	50	8	7	588.17	567.66		
51	5.00	30	63	8	6	458.16	564.22		

Chem Lab Floor

Line #	Date	Map Area	Map	Instrument: LSA	Results (DPM 1)	Results (DPM 2)	Comments	Instrument GM: (GSM-500 HP Survey Meter) S/N 13743 (HP-265 Pancake G-M Probe) S/N 10426	Results (below 200 CPM)
1	3/17/2014	A-1	Chem Floor	Liquid Scintillation Analyzer	23	9	N/A	GeigerMeter	ok
2	3/17/2014	A-2	Chem Floor	Liquid Scintillation Analyzer	42	9	N/A	GeigerMeter	ok
3	3/17/2014	A-3	Chem Floor	Liquid Scintillation Analyzer	24	9	N/A	GeigerMeter	ok
4	3/17/2014	B-4	Chem Floor	Liquid Scintillation Analyzer	48	5	N/A	GeigerMeter	ok
5	3/17/2014	B-5	Chem Floor	Liquid Scintillation Analyzer	45	7	N/A	GeigerMeter	ok
6	3/17/2014	B-6	Chem Floor	Liquid Scintillation Analyzer	145	2	N/A	GeigerMeter	ok
7	3/17/2014	B-7	Chem Floor	Liquid Scintillation Analyzer	17	10	N/A	GeigerMeter	ok
8	3/17/2014	B-8	Chem Floor	Liquid Scintillation Analyzer	23	10	N/A	GeigerMeter	ok
9	3/17/2014	B-9	Chem Floor	Liquid Scintillation Analyzer	27	10	N/A	GeigerMeter	ok
10	3/17/2014	C-10	Chem Floor	Liquid Scintillation Analyzer	28	10	N/A	GeigerMeter	ok
11	3/17/2014	C-11	Chem Floor	Liquid Scintillation Analyzer	34	8	N/A	GeigerMeter	ok
12	3/17/2014	C-12	Chem Floor	Liquid Scintillation Analyzer	27	11	N/A	GeigerMeter	ok
13	3/17/2014	C-13	Chem Floor	Liquid Scintillation Analyzer	26	9	N/A	GeigerMeter	ok
14	3/17/2014	C-14	Chem Floor	Liquid Scintillation Analyzer	37	9	N/A	GeigerMeter	ok
15	3/17/2014	C-15	Chem Floor	Liquid Scintillation Analyzer	29	9	N/A	GeigerMeter	ok
16	3/17/2014	D-16	Chem Floor	Liquid Scintillation Analyzer	32	10	N/A	GeigerMeter	ok
17	3/17/2014	D-17	Chem Floor	Liquid Scintillation Analyzer	45	6	N/A	GeigerMeter	ok
18	3/17/2014	D-18	Chem Floor	Liquid Scintillation Analyzer	36	8	N/A	GeigerMeter	ok
19	3/17/2014	D-19	Chem Floor	Liquid Scintillation Analyzer	29	9	N/A	GeigerMeter	ok
20	3/17/2014	D-20	Chem Floor	Liquid Scintillation Analyzer	31	11	N/A	GeigerMeter	ok
21	3/17/2014	D-21	Chem Floor	Liquid Scintillation Analyzer	29	9	N/A	GeigerMeter	ok
22	3/17/2014	E-22	Chem Floor	Liquid Scintillation Analyzer	35	11	N/A	GeigerMeter	ok
23	3/17/2014	E-23	Chem Floor	Liquid Scintillation Analyzer	27	6	N/A	GeigerMeter	ok
24	3/17/2014	E-24	Chem Floor	Liquid Scintillation Analyzer	27	8	N/A	GeigerMeter	ok
25	3/17/2014	F-25	Chem Floor	Liquid Scintillation Analyzer	30	10	N/A	GeigerMeter	ok
26	3/17/2014	F-26	Chem Floor	Liquid Scintillation Analyzer	25	10	N/A	GeigerMeter	ok
27	3/17/2014	F-27	Chem Floor	Liquid Scintillation Analyzer	24	8	N/A	GeigerMeter	ok
28	3/17/2014	G-28	Chem Floor	Liquid Scintillation Analyzer	23	11	N/A	GeigerMeter	ok
29	3/17/2014	G-29	Chem Floor	Liquid Scintillation Analyzer	29	10	N/A	GeigerMeter	ok
30	3/17/2014	G-30	Chem Floor	Liquid Scintillation Analyzer	28	9	N/A	GeigerMeter	ok
31	3/17/2014	H-31	Chem Floor	Liquid Scintillation Analyzer	45	8	N/A	GeigerMeter	ok
32	3/17/2014	H-32	Chem Floor	Liquid Scintillation Analyzer	23	45	N/A	GeigerMeter	ok
33	3/17/2014	H-33	Chem Floor	Liquid Scintillation Analyzer	26	9	N/A	GeigerMeter	ok
34	3/17/2014	I-34	Chem Floor	Liquid Scintillation Analyzer	26	9	N/A	GeigerMeter	ok
35	3/17/2014	I-35	Chem Floor	Liquid Scintillation Analyzer	41	8	N/A	GeigerMeter	ok
36	3/17/2014	I-36	Chem Floor	Liquid Scintillation Analyzer	59	8	N/A	GeigerMeter	ok
37	3/17/2014	J-37	Chem Floor	Liquid Scintillation Analyzer	28	11	N/A	GeigerMeter	ok
38	3/17/2014	J-38	Chem Floor	Liquid Scintillation Analyzer	30	10	N/A	GeigerMeter	ok
39	3/17/2014	J-39	Chem Floor	Liquid Scintillation Analyzer	26	9	N/A	GeigerMeter	ok
40	3/17/2014	K-40	Chem Floor	Liquid Scintillation Analyzer	32	9	N/A	GeigerMeter	ok
41	3/17/2014	K-41	Chem Floor	Liquid Scintillation Analyzer	24	10	N/A	GeigerMeter	ok
42	3/17/2014	K-24	Chem Floor	Liquid Scintillation Analyzer	31	9	N/A	GeigerMeter	ok
43	3/17/2014	L-43	Chem Floor	Liquid Scintillation Analyzer	34	8	N/A	GeigerMeter	ok
44	3/17/2014	L-44	Chem Floor	Liquid Scintillation Analyzer	30	8	N/A	GeigerMeter	ok
45	3/17/2014	L-45	Chem Floor	Liquid Scintillation Analyzer	30	8	N/A	GeigerMeter	ok
46	3/17/2014	M-46	Chem Floor	Liquid Scintillation Analyzer	27	8	N/A	GeigerMeter	ok
47	3/17/2014	M-47	Chem Floor	Liquid Scintillation Analyzer	28	8	N/A	GeigerMeter	ok
48	3/17/2014	M-48	Chem Floor	Liquid Scintillation Analyzer	34	7	N/A	GeigerMeter	ok
49	3/17/2014	Background 1	Gloves	Liquid Scintillation Analyzer	46	7	Gloves Tested After Test Wipe 21 (D-21)		
50	3/17/2014	Background 2	Gloves	Liquid Scintillation Analyzer	50	7	Gloves Tested After Test Wipe 36 (I-36)		
51	3/17/2014	Background 3	Gloves	Liquid Scintillation Analyzer	63	6	Gloves Tested After Test Wipe 48 (M-48)		

Chem Lab- Counter Top





Attachment F2

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3H Calibration DPM: 262700  
 3H Reference Date: 4/1/2011  
 14C Calibration DPM: 136300

Cycle 1 Results

S#	Count	Time	CPMA	DPM1	CPMB	DPM2	SIS	tSIE	MESSAGES
1		5.00	14	29	10	10	599.60	547.03	
2		5.00	11	22	10	11	837.38	552.23	
3		5.00	13	26	10	10	837.49	533.84	
4		5.00	12	25	10	10	780.93	529.69	
5		5.00	10	21	8	8	1116.28	531.63	
6		5.00	12	25	8	8	839.99	530.21	
7		5.00	9	19	7	7	1004.17	501.46	
8		5.00	10	22	8	9	773.12	462.95	
9		5.00	17	36	9	9	604.12	538.67	
10		5.00	10	19	8	9	871.27	540.54	
11		5.00	15	33	8	8	722.15	495.56	
12		5.00	9	17	7	8	867.01	530.60	
13		5.00	12	26	9	9	699.40	510.53	
14		5.00	10	20	8	8	1066.04	528.94	
15		5.00	13	28	8	8	977.75	542.17	
16		5.00	9	18	10	11	833.58	527.04	
17		5.00	11	22	9	9	980.73	532.24	
18		5.00	17	36	8	8	581.75	524.04	
19		5.00	9	19	8	9	1090.71	518.87	
20		5.00	13	28	8	7	854.35	528.36	
21		5.00	12	26	9	10	752.78	519.38	
22		5.00	10	20	8	8	668.48	520.37	
23		5.00	13	26	8	8	1023.99	530.84	
24		5.00	12	25	6	6	944.38	539.31	
25		5.00	13	26	10	11	853.28	524.35	
26		5.00	12	25	10	10	848.23	529.95	
27		5.00	11	23	7	7	1081.85	532.83	
28		5.00	11	23	7	7	746.49	527.29	
29		5.00	7	13	10	11	974.39	524.56	
30		5.00	12	26	6	5	986.54	513.85	
31		5.00	12	24	12	13	630.96	515.18	
32		5.00	14	30	11	11	751.34	505.56	
33		5.00	10	19	8	9	1069.15	533.99	
34		5.00	14	29	9	9	831.26	528.66	
35		5.00	10	20	10	11	847.88	524.97	
36		5.00	9	19	8	9	768.82	502.30	
37		5.00	11	22	8	9	1060.20	520.95	
38		5.00	11	23	9	9	883.24	528.04	
39		5.00	12	24	9	9	740.78	533.60	
40		5.00	11	21	10	11	840.02	535.15	
41		5.00	11	23	9	9	804.69	494.34	
42		5.00	11	22	11	12	739.44	522.10	
43		5.00	9	19	11	12	881.40	462.05	
44		5.00	9	18	9	10	769.95	533.20	
45		5.00	12	25	7	7	780.43	529.68	
46		5.00	17	35	7	7	763.70	543.76	
47		5.00	20	43	6	4	636.96	546.28	
48		5.00	13	26	9	9	723.89	547.89	

Counter Tops

Missing vial 49.  
 Missing vial 50.  
 Missing vial 51.  
 Missing vial 52.  
 Missing vial 53.  
 Missing vial 54.

55	2.19	16626	612	114542	136001	162.61	1001.08	
56	1.97	127334	214101	11241	39	20.19	998.10	

E (LS-Standard)  
 E

Line #	Date	Map Area	Map	Instrument: LSA	Results (DPM 1)	Results (DPM 2)	Comments	Instrument GM: (GSM-500 HP Survey Meter) S/N 13743 (HP-265 Pancake G-M Probe) S/N 10426	Results (below 200 CPM)
1	3/20/2014	1	Chem Lab Counter Top	Liquid Scintillation Analyzer	29	10	N/A	GeigerMeter	ok
2	3/20/2014	2	Chem Lab Counter Top	Liquid Scintillation Analyzer	22	11	N/A	GeigerMeter	ok
3	3/20/2014	3	Chem Lab Counter Top	Liquid Scintillation Analyzer	26	10	N/A	GeigerMeter	ok
4	3/20/2014	4	Chem Lab Counter Top	Liquid Scintillation Analyzer	25	10	N/A	GeigerMeter	ok
5	3/20/2014	5	Chem Lab Counter Top	Liquid Scintillation Analyzer	21	8	N/A	GeigerMeter	ok
6	3/20/2014	6	Chem Lab Counter Top	Liquid Scintillation Analyzer	25	8	N/A	GeigerMeter	ok
7	3/20/2014	7	Chem Lab Counter Top	Liquid Scintillation Analyzer	19	7	N/A	GeigerMeter	ok
8	3/20/2014	8	Chem Lab Counter Top	Liquid Scintillation Analyzer	22	9	N/A	GeigerMeter	ok
9	3/20/2014	9	Chem Lab Counter Top	Liquid Scintillation Analyzer	36	9	N/A	GeigerMeter	ok
10	3/20/2014	10	Chem Lab Counter Top	Liquid Scintillation Analyzer	19	9	N/A	GeigerMeter	ok
11	3/20/2014	11	Chem Lab Counter Top	Liquid Scintillation Analyzer	33	8	N/A	GeigerMeter	ok
12	3/20/2014	12	Chem Lab Counter Top	Liquid Scintillation Analyzer	17	8	N/A	GeigerMeter	ok
13	3/20/2014	13	Chem Lab Counter Top	Liquid Scintillation Analyzer	26	9	N/A	GeigerMeter	ok
14	3/20/2014	14	Chem Lab Counter Top	Liquid Scintillation Analyzer	20	8	N/A	GeigerMeter	ok
15	3/20/2014	15	Chem Lab Counter Top	Liquid Scintillation Analyzer	28	8	N/A	GeigerMeter	ok
16	3/20/2014	16	Chem Lab Counter Top	Liquid Scintillation Analyzer	18	11	N/A	GeigerMeter	ok
17	3/20/2014	17	Chem Lab Counter Top	Liquid Scintillation Analyzer	22	9	N/A	GeigerMeter	ok
18	3/20/2014	18	Chem Lab Counter Top	Liquid Scintillation Analyzer	36	8	N/A	GeigerMeter	ok
19	3/20/2014	19	Chem Lab Counter Top	Liquid Scintillation Analyzer	19	9	N/A	GeigerMeter	ok
20	3/20/2014	20	Chem Lab Counter Top	Liquid Scintillation Analyzer	28	7	N/A	GeigerMeter	ok
21	3/20/2014	21	Chem Lab Counter Top	Liquid Scintillation Analyzer	26	10	N/A	GeigerMeter	ok
22	3/20/2014	22	Chem Lab Counter Top	Liquid Scintillation Analyzer	20	8	N/A	GeigerMeter	ok
23	3/20/2014	23	Chem Lab Counter Top	Liquid Scintillation Analyzer	26	8	N/A	GeigerMeter	ok
24	3/20/2014	24	Chem Lab Counter Top	Liquid Scintillation Analyzer	25	6	N/A	GeigerMeter	ok
25	3/20/2014	25	Chem Lab Counter Top	Liquid Scintillation Analyzer	26	11	N/A	GeigerMeter	ok
26	3/20/2014	26	Chem Lab Counter Top	Liquid Scintillation Analyzer	25	10	N/A	GeigerMeter	ok
27	3/20/2014	27	Chem Lab Counter Top	Liquid Scintillation Analyzer	23	7	N/A	GeigerMeter	ok
28	3/20/2014	28	Chem Lab Counter Top	Liquid Scintillation Analyzer	23	7	N/A	GeigerMeter	ok
29	3/20/2014	29	Chem Lab Counter Top	Liquid Scintillation Analyzer	13	11	N/A	GeigerMeter	ok
30	3/20/2014	30	Chem Lab Counter Top	Liquid Scintillation Analyzer	26	5	N/A	GeigerMeter	ok
31	3/20/2014	31	Chem Lab Counter Top	Liquid Scintillation Analyzer	24	13	N/A	GeigerMeter	ok
32	3/20/2014	32	Chem Lab Counter Top	Liquid Scintillation Analyzer	30	11	N/A	GeigerMeter	ok
33	3/20/2014	33	Chem Lab Counter Top	Liquid Scintillation Analyzer	19	9	N/A	GeigerMeter	ok
34	3/20/2014	34	Chem Lab Counter Top	Liquid Scintillation Analyzer	29	9	N/A	GeigerMeter	ok
35	3/20/2014	35	Chem Lab Counter Top	Liquid Scintillation Analyzer	20	11	N/A	GeigerMeter	ok
36	3/20/2014	36	Chem Lab Counter Top	Liquid Scintillation Analyzer	19	9	N/A	GeigerMeter	ok
37	3/20/2014	37	Chem Lab Counter Top	Liquid Scintillation Analyzer	22	9	N/A	GeigerMeter	ok
38	3/20/2014	38	Chem Lab Counter Top	Liquid Scintillation Analyzer	23	9	N/A	GeigerMeter	ok
39	3/20/2014	39	Chem Lab Counter Top	Liquid Scintillation Analyzer	24	9	N/A	GeigerMeter	ok
40	3/20/2014	40	Chem Lab Counter Top	Liquid Scintillation Analyzer	21	11	N/A	GeigerMeter	ok
41	3/20/2014	41	Chem Lab Counter Top	Liquid Scintillation Analyzer	23	9	N/A	GeigerMeter	ok
42	3/20/2014	42	Chem Lab Counter Top	Liquid Scintillation Analyzer	22	12	N/A	GeigerMeter	ok
43	3/20/2014	43	Chem Lab Counter Top	Liquid Scintillation Analyzer	19	12	N/A	GeigerMeter	ok
44	3/20/2014	44	Chem Lab Counter Top	Liquid Scintillation Analyzer	18	10	N/A	GeigerMeter	ok
45	3/20/2014	45	Chem Lab Counter Top	Liquid Scintillation Analyzer	25	7	N/A	GeigerMeter	ok
46	3/20/2014	BackGround 1	Gloves (After Vial #20)	Liquid Scintillation Analyzer	35	7	N/A	GeigerMeter	ok
47	3/20/2014	BackGround 2	Gloves (After Vial # 40)	Liquid Scintillation Analyzer	43	4	N/A	GeigerMeter	ok
48	3/20/2014	BackGround 3	Gloves (After Vial # 45)	Liquid Scintillation Analyzer	26	9	N/A	GeigerMeter	ok

# ChemLab Space (Drawers)

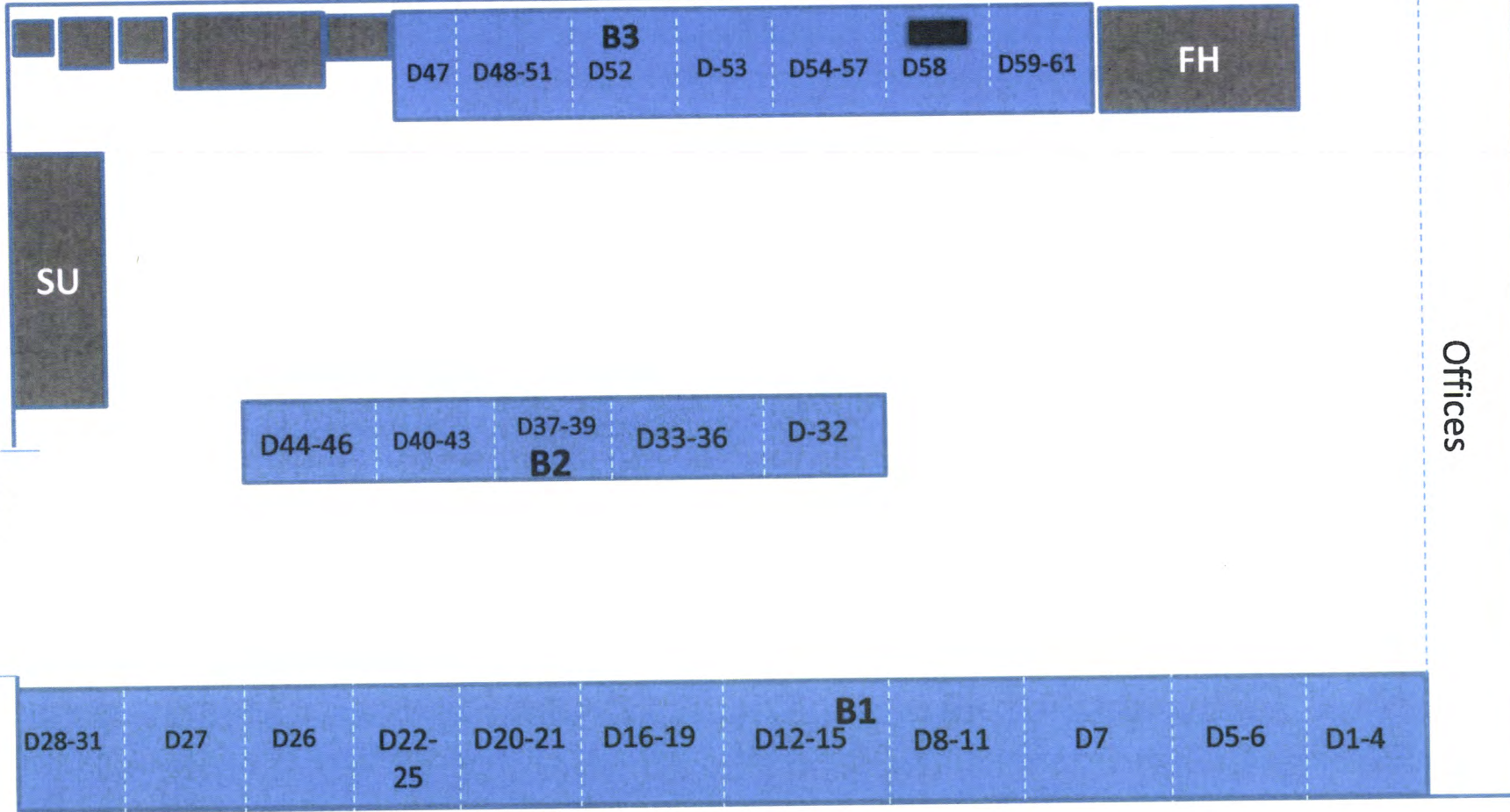
Attachment G1

Exit

Attachment G1

BioLab

Offices



**B** – bench

**D** - drawer

**FH** – fume hood

**SU** – shelving unit

 -Sink

Attachment G2 Page 20

3H Calibration DPM: 262700  
3H Reference Date: 4/1/2011  
14C Calibration DPM: 136300

Cycle 1 Results

S#	Count	Time	CPMA	DPM1	CPMB	DPM2	SIS	tSIE	MESSAGES
1	5.00		14	29	12	12	624.19	510.33	
2	5.00		14	31	8	8	601.59	496.84	
3	5.00		15	32	8	8	727.82	488.62	
4	5.00		18	39	11	10	590.89	497.08	
5	5.00		17	35	8	8	786.88	529.93	
6	5.00		24	52	11	10	502.81	518.39	
7	5.00		55	121	9	4	321.44	534.51	
8	5.00		284	639	10	0	81.75	533.25	
9	5.00		27	59	10	8	494.87	523.44	
10	5.00		23	51	9	8	634.05	521.95	
11	5.00		25	54	11	10	515.35	501.70	
12	5.00		13	27	9	9	849.20	508.80	
13	5.00		19	40	11	11	735.00	529.68	
14	5.00		20	44	8	7	426.22	514.26	
15	5.00		14	29	10	11	670.52	512.31	
16	5.00		18	38	9	8	788.88	524.73	
17	5.00		18	38	9	8	607.57	518.55	
18	5.00		26	56	9	8	506.33	515.30	
19	5.00		29	64	11	9	554.44	506.11	
20	5.00		69	152	12	5	256.96	538.17	
21	5.00		16	33	7	7	815.60	529.64	
22	5.00		19	41	9	8	594.35	520.06	
23	5.00		67	148	8	1	364.89	532.17	
24	5.00		25	56	7	5	665.78	524.37	
25	5.00		25	57	9	7	656.12	498.29	
26	5.00		19	41	9	9	650.59	523.15	
27	5.00		18	37	8	8	842.59	537.58	
28	5.00		25	54	11	10	511.20	533.27	
29	5.00		21	46	8	7	510.36	503.53	
30	5.00		15	31	9	10	681.49	502.01	
31	5.00		15	33	9	9	641.96	500.94	
32	5.00		20	42	9	8	623.92	532.78	
33	5.00		24	54	10	8	458.51	500.71	
34	5.00		21	46	9	8	518.58	497.17	
35	5.00		13	28	8	8	793.98	507.79	
36	5.00		24	53	10	8	566.27	499.13	
37	5.00		24	52	10	9	739.02	516.69	
38	5.00		21	44	11	10	645.14	529.17	
39	5.00		18	37	10	10	746.20	517.71	
40	5.00		17	37	12	12	631.93	494.47	
41	5.00		13	27	7	7	843.04	556.89	
42	5.00		11	22	12	13	722.27	487.43	
43	5.00		11	24	8	9	894.24	490.07	
44	5.00		17	36	11	11	564.14	525.07	
45	5.00		16	34	12	12	714.80	514.88	
46	5.00		18	39	10	9	715.50	507.62	
47	5.00		18	39	10	10	652.68	520.75	
48	5.00		13	26	7	7	977.91	531.44	
49	5.00		13	28	9	10	593.30	520.82	
50	5.00		14	29	10	11	904.39	516.37	
51	5.00		17	36	10	10	569.70	517.59	
52	5.00		13	26	10	10	721.90	523.17	
53	5.00		16	36	8	7	760.78	510.15	
54	5.00		13	26	9	10	743.32	526.57	
55	5.00		9	18	11	12	760.80	511.54	
56	5.00		14	29	9	9	873.19	511.72	

*Check Lab*

*(Drawer Face)*

(Drawer Face)

Attachment G2

57	5.00	11	22	11	12	845.54	496.11
58	5.00	13	26	10	11	791.25	525.74
59	5.00	15	31	10	10	721.14	515.88
60	5.00	15	31	10	10	768.32	532.70
61	5.00	15	33	9	8	661.85	509.74
Bkg 1 62	5.00	13	27	9	9	877.41	542.74
Bkg 2 63	5.00	16	32	11	11	615.67	579.15
Bkg 3 64	5.00	12	25	9	9	860.35	545.87
Missing vial 65.							
Missing vial 66.							
Missing vial 67.							
Missing vial 68.							
Missing vial 69.							
Missing vial 70.							
Missing vial 71.							
Missing vial 72.							
73	5.00	15	33	7	7	820.19	495.01
74	5.00	16	36	7	7	578.52	481.00
75	5.00	16	34	10	10	595.48	510.38
76	5.00	17	37	9	8	693.56	491.35
77	5.00	15	31	8	8	812.16	516.81
78	5.00	15	31	9	9	801.52	503.84
79	5.00	46	109	6	1	433.46	476.19
80	5.00	24	52	10	9	546.75	512.50
81	5.00	14	30	10	10	857.98	516.09
82	5.00	15	31	9	9	827.94	523.89
83	5.00	16	35	7	7	1017.76	516.99
84	5.00	14	31	9	9	779.16	515.19
85	5.00	10	22	11	12	821.17	478.54
86	5.00	13	29	9	9	844.79	499.13
87	5.00	16	36	10	10	701.62	484.69
88	5.00	12	26	10	10	712.12	492.19
89	5.00	16	35	10	10	524.00	494.82
90	5.00	18	37	10	10	608.65	517.86
91	5.00	11	22	9	10	676.71	482.27
92	5.00	15	33	9	9	694.37	484.47
93	5.00	16	36	9	9	457.65	470.40
94	5.00	15	31	10	10	724.48	523.38
95	5.00	15	33	8	8	818.00	516.05
96	5.00	13	27	7	7	823.55	519.31
97	5.00	11	23	10	10	739.82	515.42
98	5.00	12	25	10	10	900.98	502.28
99	5.00	16	34	8	7	819.16	505.22
100	5.00	10	21	8	8	962.48	519.41
101	5.00	13	26	12	12	830.63	535.52
102	5.00	11	22	10	10	994.68	519.24
103	5.00	12	25	8	8	966.44	499.81
104	5.00	17	40	7	7	801.54	431.59
105	5.00	12	25	9	9	903.28	500.11
106	5.00	30	67	9	7	592.34	518.63
107	5.00	13	27	10	10	785.82	489.70
108	5.00	12	27	8	8	824.56	458.78
109	5.00	13	25	14	15	693.64	517.72
110	5.00	13	29	10	10	658.90	437.26
111	5.00	11	22	9	10	878.43	509.33
112	5.00	11	23	10	11	642.77	507.19
113	5.00	11	24	8	8	758.19	516.90
114	5.00	11	21	11	12	967.46	510.69
115	5.00	17	36	8	7	753.28	514.82
116	5.00	32	69	11	9	528.01	531.93
117	5.00	20	45	10	10	586.95	490.32
118	5.00	21	45	11	10	498.02	514.46
119	5.00	17	36	7	7	827.44	516.58

(Drawer Face)  
 (Drawer Face)

(Bottom of Drawers)

(Inside, Bottom of Drawers)

Attachment H1

# Page 22

(Inside, Bottom of Drawers)

Attachment H1

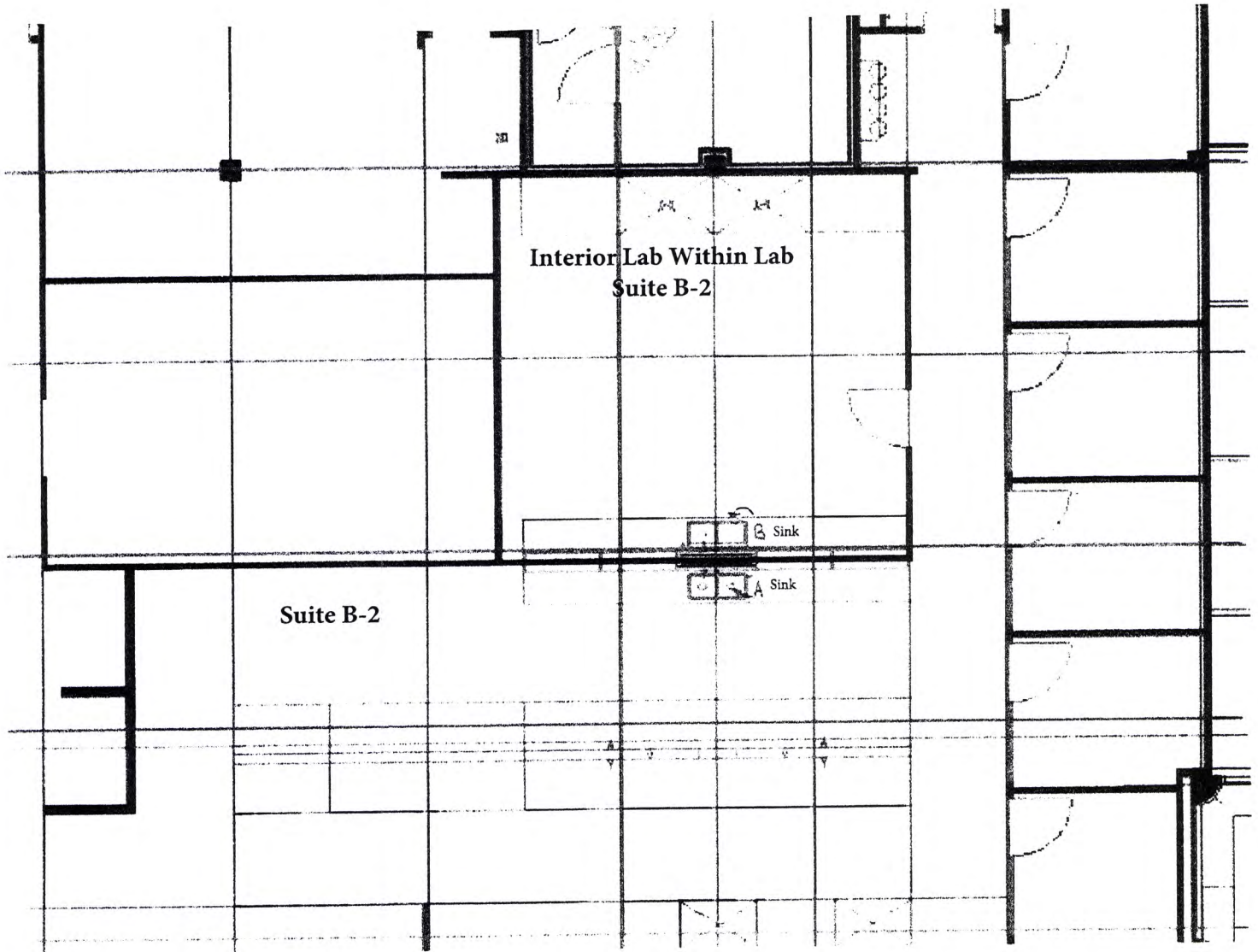
120	5.00	24	51	10	9	584.56	520.69
121	5.00	16	34	10	11	832.74	505.84
122	5.00	11	22	10	11	894.54	515.66
123	5.00	16	35	8	7	612.67	497.11
124	5.00	18	40	8	8	533.39	477.76
125	5.00	15	34	9	9	850.30	477.12
126	5.00	16	33	10	10	530.22	520.27
127	5.00	23	54	8	6	570.12	475.06
128	5.00	20	44	10	9	603.53	513.43
129	5.00	18	39	8	7	736.76	511.89
130	5.00	14	33	10	10	719.02	451.31
131	5.00	30	67	9	7	518.43	505.85
132	5.00	17	38	10	10	626.18	472.72
133	5.00	22	47	9	8	599.36	518.73
134	5.00	18	39	7	6	873.34	531.08
135	5.00	17	36	11	12	706.12	519.14
136	5.00	41	90	7	2	474.49	533.01

Line #	Date	Map Area	Map	Instrument: LSA	Results (DPM 1)	Results (DPM 2)	Comments	Instrument GM: (GSM-500 HP Survey Meter) (HP-265 Pancake G-M Probe) S/N 10426	Results (below 200 CPM)
1	3/25/2014	D-1	Chem Lab Drawer Face	Liquid Scintillation Analyzer	29	12	N/A	GeigerMeter	OK
2	3/25/2014	D-2	Chem Lab Drawer Face	Liquid Scintillation Analyzer	31	8	N/A	GeigerMeter	OK
3	3/25/2014	D-3	Chem Lab Drawer Face	Liquid Scintillation Analyzer	32	8	N/A	GeigerMeter	OK
4	3/25/2014	D-4	Chem Lab Drawer Face	Liquid Scintillation Analyzer	39	10	N/A	GeigerMeter	OK
5	3/25/2014	D-5	Chem Lab Drawer Face	Liquid Scintillation Analyzer	35	8	N/A	GeigerMeter	OK
6	3/25/2014	D-6	Chem Lab Drawer Face	Liquid Scintillation Analyzer	52	10	N/A	GeigerMeter	OK
7	3/25/2014	D-7	Chem Lab Drawer Face	Liquid Scintillation Analyzer	121	4	N/A	GeigerMeter	OK
8	3/25/2014	D-8	Chem Lab Drawer Face	Liquid Scintillation Analyzer	639	0	N/A	GeigerMeter	OK
9	3/25/2014	D-9	Chem Lab Drawer Face	Liquid Scintillation Analyzer	59	8	N/A	GeigerMeter	OK
10	3/25/2014	D-10	Chem Lab Drawer Face	Liquid Scintillation Analyzer	51	8	N/A	GeigerMeter	OK
11	3/25/2014	D-11	Chem Lab Drawer Face	Liquid Scintillation Analyzer	54	10	N/A	GeigerMeter	OK
12	3/25/2014	D-12	Chem Lab Drawer Face	Liquid Scintillation Analyzer	27	9	N/A	GeigerMeter	OK
13	3/25/2014	D-13	Chem Lab Drawer Face	Liquid Scintillation Analyzer	40	11	N/A	GeigerMeter	OK
14	3/25/2014	D-14	Chem Lab Drawer Face	Liquid Scintillation Analyzer	44	7	N/A	GeigerMeter	OK
15	3/25/2014	D-15	Chem Lab Drawer Face	Liquid Scintillation Analyzer	29	11	N/A	GeigerMeter	OK
16	3/25/2014	D-16	Chem Lab Drawer Face	Liquid Scintillation Analyzer	38	8	N/A	GeigerMeter	OK
17	3/25/2014	D-17	Chem Lab Drawer Face	Liquid Scintillation Analyzer	38	8	N/A	GeigerMeter	OK
18	3/25/2014	D-18	Chem Lab Drawer Face	Liquid Scintillation Analyzer	56	8	N/A	GeigerMeter	OK
19	3/25/2014	D-19	Chem Lab Drawer Face	Liquid Scintillation Analyzer	64	9	N/A	GeigerMeter	OK
20	3/25/2014	D-20	Chem Lab Drawer Face	Liquid Scintillation Analyzer	152	5	N/A	GeigerMeter	OK
21	3/25/2014	D-21	Chem Lab Drawer Face	Liquid Scintillation Analyzer	33	7	N/A	GeigerMeter	OK
22	3/25/2014	D-22	Chem Lab Drawer Face	Liquid Scintillation Analyzer	41	8	N/A	GeigerMeter	OK
23	3/25/2014	D-23	Chem Lab Drawer Face	Liquid Scintillation Analyzer	148	1	N/A	GeigerMeter	OK
24	3/25/2014	D-24	Chem Lab Drawer Face	Liquid Scintillation Analyzer	56	5	N/A	GeigerMeter	OK
25	3/25/2014	D-25	Chem Lab Drawer Face	Liquid Scintillation Analyzer	57	7	N/A	GeigerMeter	OK
26	3/25/2014	D-26	Chem Lab Drawer Face	Liquid Scintillation Analyzer	41	9	N/A	GeigerMeter	OK
27	3/25/2014	D-27	Chem Lab Drawer Face	Liquid Scintillation Analyzer	37	8	N/A	GeigerMeter	OK
28	3/25/2014	D-28	Chem Lab Drawer Face	Liquid Scintillation Analyzer	54	10	N/A	GeigerMeter	OK
29	3/25/2014	D-29	Chem Lab Drawer Face	Liquid Scintillation Analyzer	46	7	N/A	GeigerMeter	OK
30	3/25/2014	D-30	Chem Lab Drawer Face	Liquid Scintillation Analyzer	31	10	N/A	GeigerMeter	OK
31	3/25/2014	D-31	Chem Lab Drawer Face	Liquid Scintillation Analyzer	33	9	N/A	GeigerMeter	OK
32	3/25/2014	D-32	Chem Lab Drawer Face	Liquid Scintillation Analyzer	42	8	N/A	GeigerMeter	OK
33	3/25/2014	D-33	Chem Lab Drawer Face	Liquid Scintillation Analyzer	54	8	N/A	GeigerMeter	OK
34	3/25/2014	D-34	Chem Lab Drawer Face	Liquid Scintillation Analyzer	46	8	N/A	GeigerMeter	OK
35	3/25/2014	D-35	Chem Lab Drawer Face	Liquid Scintillation Analyzer	28	8	N/A	GeigerMeter	OK
36	3/25/2014	D-36	Chem Lab Drawer Face	Liquid Scintillation Analyzer	53	8	N/A	GeigerMeter	OK
37	3/25/2014	D-37	Chem Lab Drawer Face	Liquid Scintillation Analyzer	52	9	N/A	GeigerMeter	OK
38	3/25/2014	D-38	Chem Lab Drawer Face	Liquid Scintillation Analyzer	44	10	N/A	GeigerMeter	OK
39	3/25/2014	D-39	Chem Lab Drawer Face	Liquid Scintillation Analyzer	37	10	N/A	GeigerMeter	OK
40	3/25/2014	D-40	Chem Lab Drawer Face	Liquid Scintillation Analyzer	37	12	N/A	GeigerMeter	OK
41	3/25/2014	D-41	Chem Lab Drawer Face	Liquid Scintillation Analyzer	27	7	N/A	GeigerMeter	OK
42	3/25/2014	D-42	Chem Lab Drawer Face	Liquid Scintillation Analyzer	22	13	N/A	GeigerMeter	OK
43	3/25/2014	D-43	Chem Lab Drawer Face	Liquid Scintillation Analyzer	24	9	N/A	GeigerMeter	OK
44	3/25/2014	D-44	Chem Lab Drawer Face	Liquid Scintillation Analyzer	36	11	N/A	GeigerMeter	OK
45	3/25/2014	D-45	Chem Lab Drawer Face	Liquid Scintillation Analyzer	34	12	N/A	GeigerMeter	OK
46	3/25/2014	D-46	Chem Lab Drawer Face	Liquid Scintillation Analyzer	39	9	N/A	GeigerMeter	OK
47	3/25/2014	D-47	Chem Lab Drawer Face	Liquid Scintillation Analyzer	39	10	N/A	GeigerMeter	OK
48	3/25/2014	D-48	Chem Lab Drawer Face	Liquid Scintillation Analyzer	26	7	N/A	GeigerMeter	OK
49	3/25/2014	D-49	Chem Lab Drawer Face	Liquid Scintillation Analyzer	28	10	N/A	GeigerMeter	OK
50	3/25/2014	D-50	Chem Lab Drawer Face	Liquid Scintillation Analyzer	29	11	N/A	GeigerMeter	OK
51	3/25/2014	D-51	Chem Lab Drawer Face	Liquid Scintillation Analyzer	36	10	N/A	GeigerMeter	OK
52	3/25/2014	D-52	Chem Lab Drawer Face	Liquid Scintillation Analyzer	26	10	N/A	GeigerMeter	OK
53	3/25/2014	D-53	Chem Lab Drawer Face	Liquid Scintillation Analyzer	36	7	N/A	GeigerMeter	OK
54	3/25/2014	D-54	Chem Lab Drawer Face	Liquid Scintillation Analyzer	26	10	N/A	GeigerMeter	OK
55	3/25/2014	D-55	Chem Lab Drawer Face	Liquid Scintillation Analyzer	18	12	N/A	GeigerMeter	OK
56	3/25/2014	D-56	Chem Lab Drawer Face	Liquid Scintillation Analyzer	29	9	N/A	GeigerMeter	OK
57	3/25/2014	D-57	Chem Lab Drawer Face	Liquid Scintillation Analyzer	22	12	N/A	GeigerMeter	OK
58	3/25/2014	D-58	Chem Lab Drawer Face	Liquid Scintillation Analyzer	26	11	N/A	GeigerMeter	OK
59	3/25/2014	D-59	Chem Lab Drawer Face	Liquid Scintillation Analyzer	31	10	N/A	GeigerMeter	OK
60	3/25/2014	D-60	Chem Lab Drawer Face	Liquid Scintillation Analyzer	31	10	N/A	GeigerMeter	OK
61	3/25/2014	D-61	Chem Lab Drawer Face	Liquid Scintillation Analyzer	33	8	N/A	GeigerMeter	OK
62	3/25/2014	BKG 1, Gloves (After Vial# 31)	Chem Lab Drawer Face	Liquid Scintillation Analyzer	27	9	N/A	GeigerMeter	OK
63	3/25/2014	BKG 2, Gloves (After Vial# 51)	Chem Lab Drawer Face	Liquid Scintillation Analyzer	32	11	N/A	GeigerMeter	OK
64	3/25/2014	BKG 3, Gloves (After Vial # 61)	Chem Lab Drawer Face	Liquid Scintillation Analyzer	25	9	N/A	GeigerMeter	OK

Line #	Date	Map Area	Map	Instrument: LSA	Results (DPM 1)	Results (DPM 2)	Comments	Instrument GM: (GSM-500 HP Survey Meter) S/N 13743 (HP-265 Pancake G-M Probe) S/N 10426	Results (below 200 CPM)
73	3/25/2014	D-1	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	33	7	N/A	GeigerMeter	ok
74	3/25/2014	D-2	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	36	7	N/A	GeigerMeter	ok
75	3/25/2014	D-3	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	34	10	N/A	GeigerMeter	ok
76	3/25/2014	D-4	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	37	8	N/A	GeigerMeter	ok
77	3/25/2014	D-5	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	31	8	N/A	GeigerMeter	ok
78	3/25/2014	D-6	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	31	9	N/A	GeigerMeter	ok
79	3/25/2014	D-7	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	109	1	N/A	GeigerMeter	ok
80	3/25/2014	D-8	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	52	9	N/A	GeigerMeter	ok
81	3/25/2014	D-9	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	30	10	N/A	GeigerMeter	ok
82	3/25/2014	D-10	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	31	9	N/A	GeigerMeter	ok
83	3/25/2014	D-11	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	35	7	N/A	GeigerMeter	ok
84	3/25/2014	D-12	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	31	9	N/A	GeigerMeter	ok
85	3/25/2014	D-13	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	22	12	N/A	GeigerMeter	ok
86	3/25/2014	D-14	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	29	9	N/A	GeigerMeter	ok
87	3/25/2014	D-15	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	36	10	N/A	GeigerMeter	ok
88	3/25/2014	D-16	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	26	10	N/A	GeigerMeter	ok
89	3/25/2014	D-17	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	35	10	N/A	GeigerMeter	ok
90	3/25/2014	D-18	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	37	10	N/A	GeigerMeter	ok
91	3/25/2014	D-19	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	22	10	N/A	GeigerMeter	ok
92	3/25/2014	D-20	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	33	9	N/A	GeigerMeter	ok
93	3/25/2014	D-21	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	36	9	N/A	GeigerMeter	ok
94	3/25/2014	D-22	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	31	10	N/A	GeigerMeter	ok
95	3/25/2014	D-23	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	33	8	N/A	GeigerMeter	ok
96	3/25/2014	D-24	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	27	7	N/A	GeigerMeter	ok
97	3/25/2014	D-25	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	23	10	N/A	GeigerMeter	ok
98	3/25/2014	D-26	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	25	10	N/A	GeigerMeter	ok
99	3/25/2014	D-27	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	34	7	N/A	GeigerMeter	ok
100	3/25/2014	D-28	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	21	8	N/A	GeigerMeter	ok
101	3/25/2014	D-29	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	26	12	N/A	GeigerMeter	ok
102	3/25/2014	D-30	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	22	10	N/A	GeigerMeter	ok
103	3/25/2014	D-31	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	25	8	N/A	GeigerMeter	ok
104	3/25/2014	D-32	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	40	7	N/A	GeigerMeter	ok
105	3/25/2014	D-33	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	25	9	N/A	GeigerMeter	ok
106	3/25/2014	D-34	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	67	7	N/A	GeigerMeter	ok
107	3/25/2014	D-35	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	27	10	N/A	GeigerMeter	ok
108	3/25/2014	D-36	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	27	8	N/A	GeigerMeter	ok
109	3/25/2014	D-37	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	25	15	N/A	GeigerMeter	ok
110	3/25/2014	D-38	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	29	10	N/A	GeigerMeter	ok
111	3/25/2014	D-39	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	22	10	N/A	GeigerMeter	ok
112	3/25/2014	D-40	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	23	11	N/A	GeigerMeter	ok
113	3/25/2014	D-41	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	24	8	N/A	GeigerMeter	ok
114	3/25/2014	D-42	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	21	12	N/A	GeigerMeter	ok
115	3/25/2014	D-43	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	36	7	N/A	GeigerMeter	ok
116	3/25/2014	D-44	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	69	9	N/A	GeigerMeter	ok
117	3/25/2014	D-45	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	45	10	N/A	GeigerMeter	ok
118	3/25/2014	D-46	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	45	10	N/A	GeigerMeter	ok
119	3/25/2014	D-47	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	36	7	N/A	GeigerMeter	ok
120	3/25/2014	D-48	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	51	9	N/A	GeigerMeter	ok
121	3/25/2014	D-49	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	34	11	N/A	GeigerMeter	ok
122	3/25/2014	D-50	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	22	11	N/A	GeigerMeter	ok
123	3/25/2014	D-51	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	35	7	N/A	GeigerMeter	ok
124	3/25/2014	D-52	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	40	8	N/A	GeigerMeter	ok
125	3/25/2014	D-53	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	34	9	N/A	GeigerMeter	ok
126	3/25/2014	D-54	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	33	10	N/A	GeigerMeter	ok
127	3/25/2014	D-55	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	54	6	N/A	GeigerMeter	ok



128	3/25/2014 D-56	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	44	9 N/A	GeigerMeter	ok
129	3/25/2014 D-57	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	39	7 N/A	GeigerMeter	ok
130	3/25/2014 D-58	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	33	10 N/A	GeigerMeter	ok
131	3/25/2014 D-59	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	67	7 N/A	GeigerMeter	ok
132	3/25/2014 D-60	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	38	10 N/A	GeigerMeter	ok
133	3/25/2014 D-61	Chem Lab Drawer, (Inside Bottom)	Liquid Scintillation Analyzer	47	8 N/A	GeigerMeter	ok
134	3/25/2014 D-62	BKG 1, Gloves (After Vial 97)	Liquid Scintillation Analyzer	39	6 N/A	GeigerMeter	ok
135	3/25/2014 D-63	BKG 2, Gloves (After Vial 112)	Liquid Scintillation Analyzer	36	12 N/A	GeigerMeter	ok
136	3/25/2014 D-64	BKG 3, Gloves (After Vial 133)	Liquid Scintillation Analyzer	90	2 N/A	GeigerMeter	ok



Liquid Scintillation Analyzer (Sinks)

Assay Definition

Assay Description:  
Basic dual DPM assay  
Assay Type: DPM (Dual)  
Report Name: Report1  
Output Data Path: C:\Packard\Tricarb\Results\Default\3h\_14c\_dpm  
Raw Results Path: C:\Packard\Tricarb\Results\Default\3h\_14c\_dpm\20140321\_1456\20140321\_1456.results  
Comma-Delimited File Name: C:\Packard\Tricarb\Results\Default\3h\_14c\_dpm\Report1.txt  
Assay File Name: C:\Packard\TriCarb\Assays\3h\_14c\_dpm.lsa

Count Conditions

Nuclide: 3H-14C  
Quench Indicator: tSIE/AEC  
External Std Terminator (sec): 0.5 2s%  
Pre-Count Delay (min): 0.00  
Quench Sets:  
Low Energy: 3H  
Mid Energy: 14C  
Count Time (min): 5.00  
Count Mode: Normal  
Assay Count Cycles: 1 Repeat Sample Count: 1  
#Vials/Sample: 1 Calculate % Reference: Off

Background Subtract

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

Regions	LL	UL	2Sigma % Terminator
A	0.0	12.0	0.40
B	12.0	156.0	0.40
C	0.0	0.0	0.00

Count Corrections

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

IPA Block Data

Software Version IC: 3.04  
Software Version EC: 4.00  
Instrument Model: Tri-Carb 2810TR  
Instrument Serial Number: 117968  
3H Chi Square: 28.09 Date Processed: 11/1/2013 7:49:45 PM  
14C Chi Square: 17.95 Date Processed: 11/1/2013 7:49:45 PM  
3H E<sup>2</sup>/B (1-18.6 keV): 294.16 Date Processed: 11/1/2013 7:49:45 PM  
14C E<sup>2</sup>/B (4-156 keV): 563.34 Date Processed: 11/1/2013 7:49:45 PM  
3H Efficiency (1-18.6 keV): 61.40 Date Processed: 11/1/2013 7:49:45 PM  
14C Efficiency (4-156 keV): 92.99 Date Processed: 11/1/2013 7:49:45 PM  
IPA Background Date Processed: 11/1/2013 7:49:45 PM  
3H Background CPM (1-18.6 keV): 12.82 Date Processed: 11/1/2013 7:49:45 PM  
14C Background CPM (4-156 keV): 15.35 Date Processed: 11/1/2013 7:49:45 PM

## Attachment I2

3H Calibration DPM: 262700  
3H Reference Date: 4/1/2011  
14C Calibration DPM: 136300

## Cycle 1 Results

S#	Count	Time	CPMA	DPM1	CPMB	DPM2	SIS	tSIE	MESSAGES
1	5.00	28	144	9	5	197.79	207.64	Sink-A (Bottom)	
2	5.00	42	100	7	3	417.27	479.14	Sink-B (Bottom)	

Assay Definition

Assay Description:  
Basic dual DPM assay  
Assay Type: DPM (Dual)  
Report Name: Report1  
Output Data Path: C:\Packard\Tricarb\Results\Default\3h\_14c\_dpm  
Raw Results Path: C:\Packard\Tricarb\Results\Default\3h\_14c\_dpm\20140325\_1252\20140325\_1252.results  
Comma-Delimited File Name: C:\Packard\Tricarb\Results\Default\3h\_14c\_dpm\Report1.txt  
Assay File Name: C:\Packard\TriCarb\Assays\3h\_14c\_dpm.lsa

Count Conditions

Nuclide: 3H-14C  
Quench Indicator: tSIE/AEC  
External Std Terminator (sec): 0.5 2s%  
Pre-Count Delay (min): 0.00  
Quench Sets:  
Low Energy: 3H  
Mid Energy: 14C  
Count Time (min): 5.00  
Count Mode: Normal  
Assay Count Cycles: 1 Repeat Sample Count: 1  
#Vials/Sample: 1 Calculate % Reference: Off

Background Subtract

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

Regions	LL	UL	2Sigma % Terminator
A	0.0	12.0	0.40
B	12.0	156.0	0.40
C	0.0	0.0	0.00

Count Corrections

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

IPA Block Data

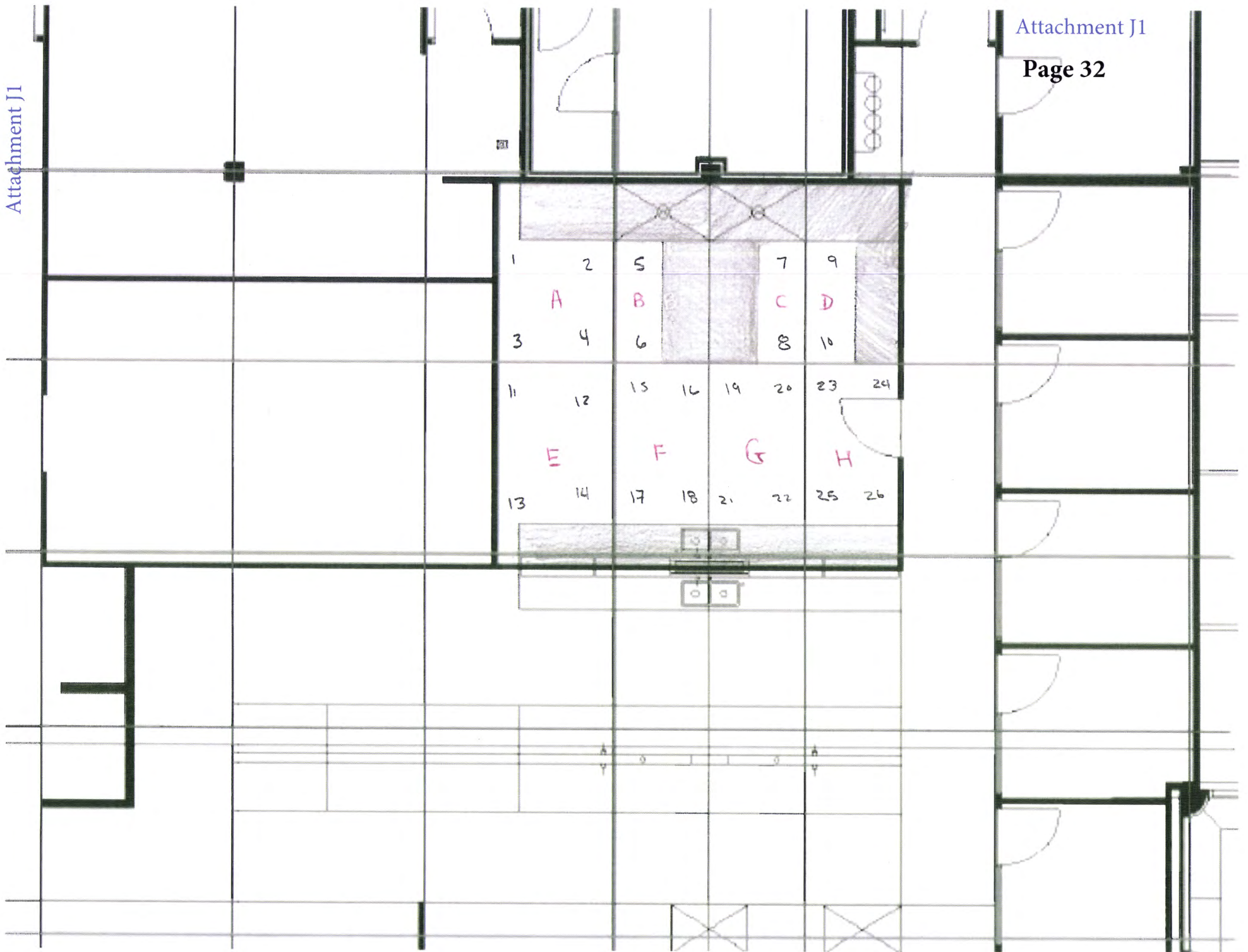
Software Version IC: 3.04  
Software Version EC: 4.00  
Instrument Model: Tri-Carb 2810TR  
Instrument Serial Number: 117968  
3H Chi Square: 28.09 Date Processed: 11/1/2013 7:49:45 PM  
14C Chi Square: 17.95 Date Processed: 11/1/2013 7:49:45 PM  
3H E<sup>2</sup>/B (1-18.6 keV): 294.16 Date Processed: 11/1/2013 7:49:45 PM  
14C E<sup>2</sup>/B (4-156 keV): 563.34 Date Processed: 11/1/2013 7:49:45 PM  
3H Efficiency (1-18.6 keV): 61.40 Date Processed: 11/1/2013 7:49:45 PM  
14C Efficiency (4-156 keV): 92.99 Date Processed: 11/1/2013 7:49:45 PM  
IPA Background Date Processed: 11/1/2013 7:49:45 PM  
3H Background CPM (1-18.6 keV): 12.82 Date Processed: 11/1/2013 7:49:45 PM  
14C Background CPM (4-156 keV): 15.35 Date Processed: 11/1/2013 7:49:45 PM

3H Calibration DPM: 262700  
3H Reference Date: 4/1/2011  
14C Calibration DPM: 136300

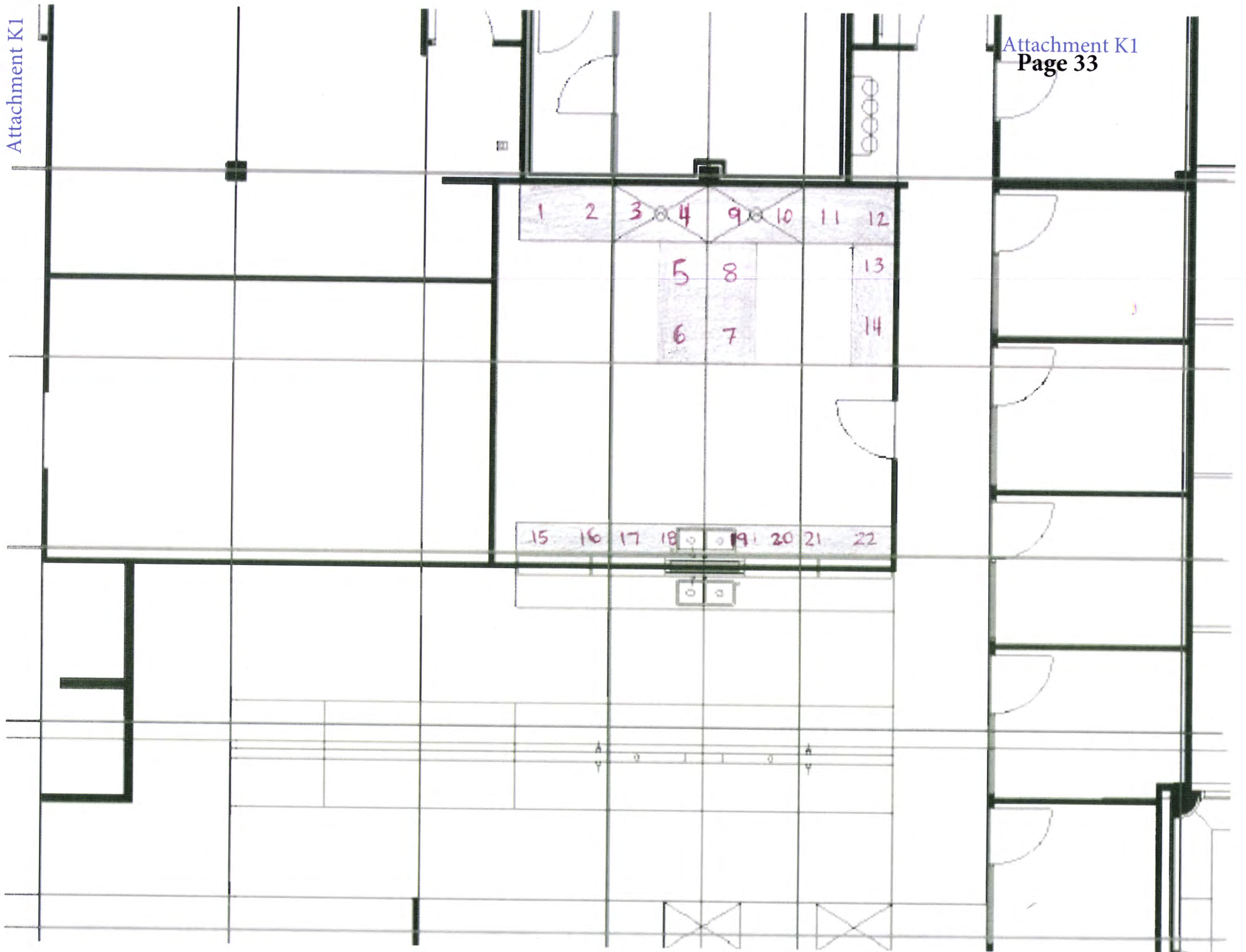
## Cycle 1 Results

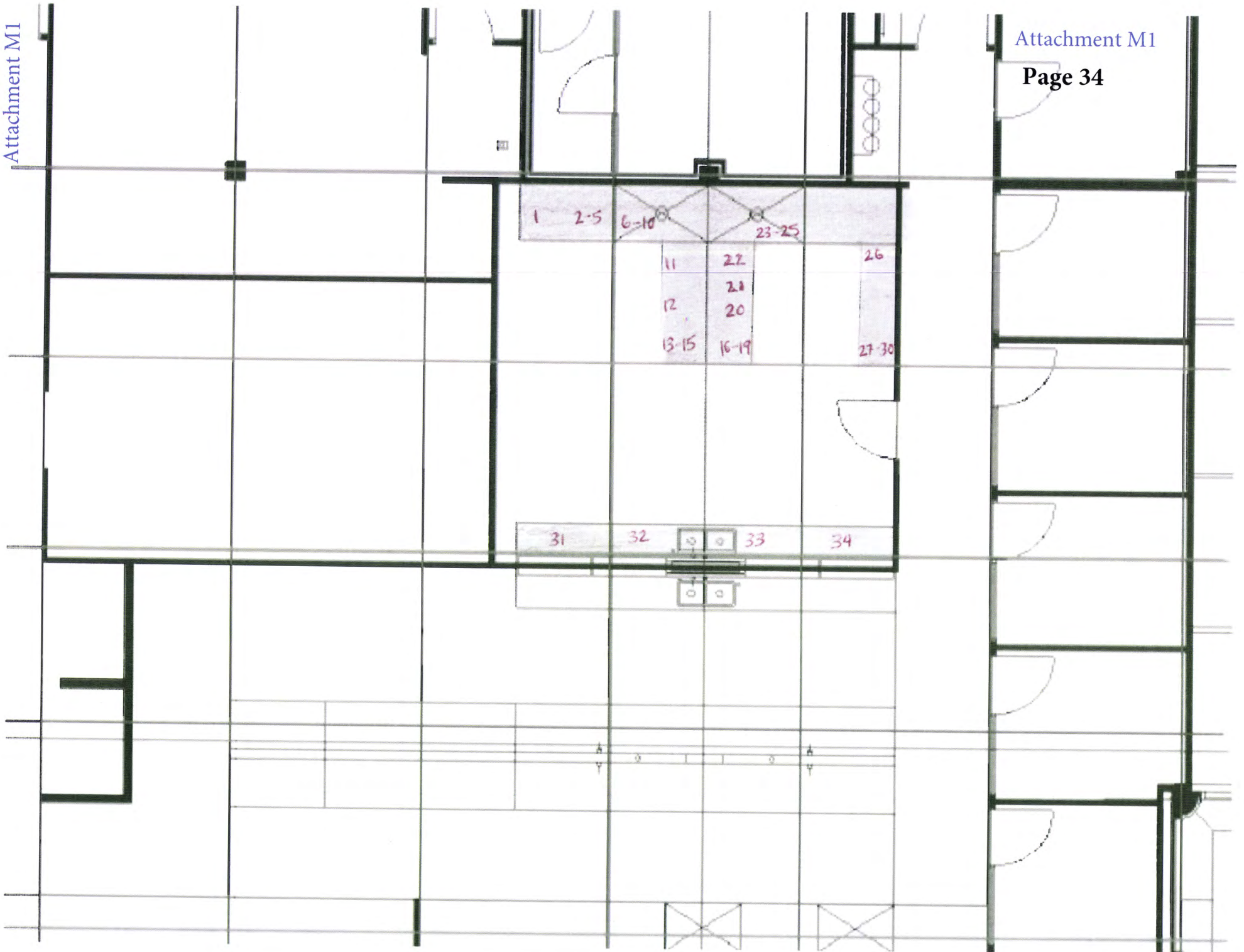
S#	Count	Time	CPMA	DPM1	CPMB	DPM2	SIS	tSIE	MESSAGES
1	5.00	21	45	13	13	510.67	489.96	Sink A (1.1 Water From Trap)	
2	5.00	11	93	11	12	236.16	135.30	Sink A (1.2 Trap Itself)	
3	5.00	15	33	10	10	724.70	452.48	Sink B (2.1 Water From Trap)	
4	5.00	13	46	8	8	373.12	283.98	Sink B (2.2 Trap Itself)	
5	5.00	14	30	8	8	801.86	515.45	Retest, Drawer Face (# 8)	

Line #	Date	Map Area	Map	Instrument: LSA	Results (DPM 1)	Results (DPM 2)	Comments	Instrument GM: (GSM-500 HP Survey Meter) S/N 13743 (HP-265 Pancake G-M Probe) S/N 10426	Results	(below 200 CPM)
	(Sink Bottom)									
1	3/25/2014	A	Chem Lab (Sinks)	Liquid Scintillation Analyzer	144	5	Sink A Bottom	GeigerMeter		ok
2	3/25/2014	B	Chem Lab (Sinks)	Liquid Scintillation Analyzer	100	3	Sink B Bottom	GeigerMeter		ok
	(Sink Trap, Trap Water)									
1	3/25/2014	A	Chem Lab (Sinks)	Liquid Scintillation Analyzer	45	13	1.1 Water From Trap	GeigerMeter		ok
2	3/25/2014	A	Chem Lab (Sinks)	Liquid Scintillation Analyzer	93	12	1.2 Trap Itself	GeigerMeter		ok
3	3/25/2014	B	Chem Lab (Sinks)	Liquid Scintillation Analyzer	33	10	2.1 Water From Trap	GeigerMeter		ok
4	3/25/2014	B	Chem Lab (Sinks)	Liquid Scintillation Analyzer	46	8	2.2 Trap Itself	GeigerMeter		ok
5	3/25/2014	D-8 (Re-test)	(Chem Lab Drawer Face)	Liquid Scintillation Analyzer	30	8	(Re-test Drawer Face D-8)	GeigerMeter		ok









## Attachment J2

Assay Definition

## Assay Description:

Basic dual DPM assay

Assay Type: DPM (Dual)

Report Name: Report1

Output Data Path: C:\Packard\Tricarb\Results\Default\3h\_14c\_dpm

Raw Results Path: C:\Packard\Tricarb\Results\Default\3h\_14c\_dpm\20140407\_1349\20140407\_1349.results

Comma-Delimited File Name: C:\Packard\Tricarb\Results\Default\3h\_14c\_dpm\Report1.txt

Assay File Name: C:\Packard\TriCarb\Assays\3h\_14c\_dpm.lsa

Count Conditions

Nuclide: 3H-14C

Quench Indicator: tSIE/AEC

External Std Terminator (sec): 0.5 2s%

Pre-Count Delay (min): 0.00

Quench Sets:

Low Energy: 3H

Mid Energy: 14C

Count Time (min): 5.00

Count Mode: Normal

Assay Count Cycles: 1

Repeat Sample Count: 1

#Vials/Sample: 1

Calculate % Reference: Off

Background Subtract

Background Subtract: Off

Low CPM Threshold: Off

2 Sigma % Terminator: On - Any Region

Regions	LL	UL	2Sigma % Terminator
A	0.0	12.0	0.40
B	12.0	156.0	0.40
C	0.0	0.0	0.00

Count Corrections

Static Controller: On

Luminescence Correction: n/a

Colored Samples: Off

Heterogeneity Monitor: n/a

Coincidence Time (nsec): 18

Delay Before Burst (nsec): 75

IPA Block Data

Software Version IC: 3.04

Software Version EC: 4.00

Instrument Model: Tri-Carb 2810TR

Instrument Serial Number: 117968

3H Chi Square: 28.09 Date Processed: 11/1/2013 7:49:45 PM

14C Chi Square: 17.95 Date Processed: 11/1/2013 7:49:45 PM

3H E<sup>2</sup>/B (1-18.6 keV): 294.16 Date Processed: 11/1/2013 7:49:45 PM14C E<sup>2</sup>/B (4-156 keV): 563.34 Date Processed: 11/1/2013 7:49:45 PM

3H Efficiency (1-18.6 keV): 61.40 Date Processed: 11/1/2013 7:49:45 PM

14C Efficiency (4-156 keV): 92.99 Date Processed: 11/1/2013 7:49:45 PM

IPA Background Date Processed: 11/1/2013 7:49:45 PM

3H Background CPM (1-18.6 keV): 12.82 Date Processed: 11/1/2013 7:49:45 PM

14C Background CPM (4-156 keV): 15.35 Date Processed: 11/1/2013 7:49:45 PM

3H Calibration DPM: 262700  
 3H Reference Date: 4/1/2011  
 14C Calibration DPM: 136300

## Cycle 1 Results

S#	Count	Time	CPMA	DPM1	CPMB	DPM2	SIS	tSIE	MESSAGES
1	5.00		33	74	8	6	635.52	504.71	
2	5.00		30	65	12	11	431.97	515.55	
3	5.00		32	75	10	8	507.38	477.05	
4	5.00		31	66	11	9	487.38	534.62	
5	5.00		25	54	9	7	665.83	528.19	
6	5.00		17	37	8	7	662.87	541.72	
7	5.00		23	48	10	9	538.51	538.09	
8	5.00		25	52	10	9	498.38	533.67	
9	5.00		17	36	9	8	693.42	500.02	
10	5.00		25	55	7	5	557.20	521.61	
11	5.00		15	33	9	9	644.46	469.81	
12	5.00		22	48	9	7	470.37	516.25	
13	5.00		90	214	6	0	273.09	481.22	
14	5.00		77	174	11	3	257.77	511.31	
15	5.00		40	90	8	4	344.48	522.97	
16	5.00		84	189	7	0	289.63	524.59	
17	5.00		29	64	9	7	487.65	508.58	
18	5.00		32	69	11	9	413.33	532.22	
19	5.00		29	63	8	5	660.42	528.79	
20	5.00		36	78	8	5	452.11	541.51	
21	5.00		47	104	9	5	381.47	526.59	
22	5.00		21	45	10	9	596.95	529.11	
23	5.00		19	41	9	8	436.85	540.55	
24	5.00		25	54	9	7	584.56	533.36	
25	5.00		19	40	10	9	694.68	506.57	
26	5.00		20	49	8	6	826.97	445.52	
27	5.00		197	438	8	0	141.34	541.68	
28	5.00		155	340	8	0	143.09	554.61	
Missing vial 29.									
Missing vial 30.									
Missing vial 31.									
Missing vial 32.									
Missing vial 33.									
Missing vial 34.									
Missing vial 35.									
Missing vial 36.									
37	5.00		20	40	12	13	608.77	559.29	
38	5.00		20	42	8	7	619.86	544.26	
39	5.00		17	36	8	8	745.99	532.64	
40	5.00		16	33	8	8	763.94	538.98	
41	5.00		16	34	7	6	840.48	545.06	
42	5.00		14	29	9	9	730.02	511.04	
43	5.00		16	33	9	9	783.54	527.32	
44	5.00		15	31	10	11	596.75	537.77	
45	5.00		10	21	10	10	938.69	518.94	
46	5.00		13	26	10	10	845.73	533.11	
47	5.00		15	31	10	10	614.75	529.14	
48	5.00		16	33	12	12	863.06	538.58	
49	5.00		17	34	10	10	505.02	533.74	
50	5.00		17	37	9	8	757.65	504.20	
51	5.00		11	22	9	10	886.30	532.72	
52	5.00		13	27	9	10	779.86	533.35	
53	5.00		11	22	8	9	1081.96	537.86	
54	5.00		11	23	10	11	897.33	542.90	
55	5.00		35	74	8	6	506.42	552.60	
56	5.00		14	28	9	10	713.88	581.12	

Attachment J2

Attachment K2

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Attachment K2

57	5.00	13	27	9	10	921.41	548.68
58	5.00	15	31	11	11	723.08	536.50
59	5.00	13	27	9	10	837.19	548.19

Missing vial 60.  
 Missing vial 61.  
 Missing vial 62.  
 Missing vial 63.  
 Missing vial 64.  
 Missing vial 65.  
 Missing vial 66.  
 Missing vial 67.  
 Missing vial 68.  
 Missing vial 69.  
 Missing vial 70.  
 Missing vial 71.  
 Missing vial 72.

73	5.00	14	29	9	9	686.40	538.33
74	5.00	17	36	9	8	855.03	515.35
75	5.00	18	39	9	9	751.80	510.07
76	5.00	53	116	10	5	366.20	531.42
77	5.00	34	76	6	3	518.70	529.61
78	5.00	195	439	10	0	126.18	531.13
79	5.00	17	35	11	11	564.46	538.79
80	5.00	13	27	10	11	573.75	526.81
81	5.00	14	29	9	9	692.94	528.88
82	5.00	17	36	7	7	761.35	525.77
83	5.00	15	31	8	8	743.09	542.00
84	5.00	15	31	10	10	671.10	539.57
85	5.00	17	36	10	10	799.98	529.86
86	5.00	17	36	5	4	862.01	532.49
87	5.00	24	52	8	7	587.51	543.31
88	5.00	22	47	11	10	565.29	533.35
89	5.00	15	30	8	8	617.52	535.18
90	5.00	11	22	10	10	822.84	534.29
91	5.00	11	22	9	10	681.56	535.30
92	5.00	14	28	8	7	846.50	543.59
93	5.00	32	70	9	7	410.60	529.79
94	5.00	23	48	8	6	703.43	546.04
95	5.00	13	26	8	8	774.44	542.38
96	5.00	12	25	9	9	775.92	542.77
97	5.00	12	25	9	10	722.47	536.40
98	5.00	12	23	11	12	928.06	548.11
99	5.00	12	24	8	8	829.07	539.04
100	5.00	15	30	10	10	799.87	537.68
101	5.00	16	33	10	10	790.07	534.42
102	5.00	93	212	10	0	297.34	516.64
103	5.00	23	49	8	7	735.12	531.88
104	5.00	13	27	9	10	889.22	500.38
105	5.00	14	28	11	12	666.52	530.00
106	5.00	18	38	9	9	690.24	543.89
107	5.00	14	29	7	7	620.33	564.93
108	5.00	24	50	10	9	688.44	555.76

Missing vial 109.  
 Missing vial 110.  
 Missing vial 111.  
 Missing vial 112.  
 Missing vial 113.  
 Missing vial 114.  
 Missing vial 115.  
 Missing vial 116.  
 Missing vial 117.  
 Missing vial 118.  
 Missing vial 119.

Attachment L2

## Page 38

Missing vial 120.  
 Missing vial 121.  
 Missing vial 122.  
 Missing vial 123.  
 Missing vial 124.  
 Missing vial 125.  
 Missing vial 126.

127	5.00	26	66	9	8	608.76	427.73
128	5.00	13	28	8	7	837.22	526.34
129	5.00	14	29	8	8	924.47	525.63
130	5.00	12	25	10	11	682.72	511.66
131	5.00	15	30	10	11	679.65	526.05
132	5.00	12	26	10	10	695.01	498.54
133	5.00	15	32	7	7	691.98	552.75
134	5.00	14	28	9	9	1068.64	529.25
135	5.00	16	32	10	11	957.71	532.75
136	5.00	14	29	11	11	727.04	519.74
137	5.00	11	22	12	13	750.53	509.72
138	5.00	12	26	8	8	799.74	493.79
139	5.00	16	33	7	7	774.60	523.16
140	5.00	16	34	10	11	663.87	538.26
141	5.00	13	29	8	8	933.52	500.75
142	5.00	16	34	10	10	891.95	540.90
143	5.00	16	35	7	6	592.96	536.68
144	5.00	18	39	8	8	548.10	523.42
145	5.00	13	28	12	12	717.47	510.79
146	5.00	16	36	10	9	651.01	483.29
147	5.00	15	31	11	11	723.66	510.57
148	5.00	26	60	9	7	581.00	477.51
149	5.00	16	33	8	8	763.80	546.48
150	5.00	28	59	10	8	656.86	546.56
151	5.00	21	48	9	7	671.30	493.81
152	5.00	23	53	8	6	599.96	491.38
153	5.00	19	42	7	6	571.68	505.92
154	5.00	22	48	8	7	647.75	519.57
155	5.00	21	46	9	8	728.48	526.47
156	5.00	17	37	9	8	724.37	517.61
157	5.00	13	29	12	13	615.66	425.82
158	5.00	19	44	11	11	516.17	453.28
159	5.00	12	30	8	7	848.57	431.54
160	5.00	15	34	9	9	705.79	477.33
161	5.00	17	34	9	9	750.68	544.31
162	5.00	15	32	8	7	726.21	539.92

Attachment M2

## Attachment N1

Assay Definition

## Assay Description:

Basic dual DPM assay

Assay Type: DPM (Dual)

Report Name: Report1

Output Data Path: C:\Packard\Tricarb\Results\Default\3h\_14c\_dpm

Raw Results Path: C:\Packard\Tricarb\Results\Default\3h\_14c\_dpm\20140408\_1316\20140408\_1316.results

Comma-Delimited File Name: C:\Packard\Tricarb\Results\Default\3h\_14c\_dpm\Report1.txt

Assay File Name: C:\Packard\TriCarb\Assays\3h\_14c\_dpm.lsa

Count Conditions

Nuclide: 3H-14C

Quench Indicator: tSIE/AEC

External Std Terminator (sec): 0.5 2s%

Pre-Count Delay (min): 0.00

Quench Sets:

Low Energy: 3H

Mid Energy: 14C

Count Time (min): 5.00

Count Mode: Normal

Assay Count Cycles: 1

Repeat Sample Count: 1

#Vials/Sample: 1

Calculate % Reference: Off

Background Subtract

Background Subtract: Off

Low CPM Threshold: Off

2 Sigma % Terminator: On - Any Region

Regions	LL	UL	2Sigma % Terminator
A	0.0	12.0	0.40
B	12.0	156.0	0.40
C	0.0	0.0	0.00

Count Corrections

Static Controller: On

Luminescence Correction: n/a

Colored Samples: Off

Heterogeneity Monitor: n/a

Coincidence Time (nsec): 18

Delay Before Burst (nsec): 75

IPA Block Data

Software Version IC: 3.04

Software Version EC: 4.00

Instrument Model: Tri-Carb 2810TR

Instrument Serial Number: 117968

3H Chi Square: 28.09 Date Processed: 11/1/2013 7:49:45 PM

14C Chi Square: 17.95 Date Processed: 11/1/2013 7:49:45 PM

3H E<sup>2</sup>/B (1-18.6 keV): 294.16 Date Processed: 11/1/2013 7:49:45 PM14C E<sup>2</sup>/B (4-156 keV): 563.34 Date Processed: 11/1/2013 7:49:45 PM

3H Efficiency (1-18.6 keV): 61.40 Date Processed: 11/1/2013 7:49:45 PM

14C Efficiency (4-156 keV): 92.99 Date Processed: 11/1/2013 7:49:45 PM

IPA Background Date Processed: 11/1/2013 7:49:45 PM

3H Background CPM (1-18.6 keV): 12.82 Date Processed: 11/1/2013 7:49:45 PM

14C Background CPM (4-156 keV): 15.35 Date Processed: 11/1/2013 7:49:45 PM

Attachment N1

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3H Calibration DPM: 262700  
3H Reference Date: 4/1/2011  
14C Calibration DPM: 136300

## Cycle 1 Results

S#	Count	Time	CPMA	DPM1	CPMB	DPM2	SIS	tSIE	MESSAGES
1	5.00		16	32	10	11	651.64	550.33	
2	5.00		16	33	10	10	817.44	560.56	
3	5.00		15	30	9	9	855.63	589.82	



Attachment N2

Attachment N2				Instrument Gieger Muller: (GSM HP Survey Meter) SN 13743			Results	
Line #	Date	Area	Map	Instrument	Results (DPM 1)	Results (DPM 2)	(HP 265 pancake G-M Probe) SN 10426	Below 200 CPM
1	4/8/2014	13	Suite B-2 Storage Room/Interior Lab, <b>Floor (I2)</b>	Liquid Scintillation Analyzer	32	11	GM Reading	ok
2	4/8/2014	78	Suite B-2 Storage Room/Interior Lab, <b>Drawer Face (L2)</b>	Liquid Scintillation Analyzer	33	10	GM Reading	ok
3	4/8/2014	102	Suite B-2 Storage Room/Interior Lab, <b>Drawer Face (L2)</b>	Liquid Scintillation Analyzer	30	9	GM Reading	ok



142	4/7/2014	16	Suite B-2 Storage Room, <b>Inside Drawers</b>	Liquid Scintillation Analyzer	34	10	N/A	Geiger Survey	ok
143	4/7/2014	17	Suite B-2 Storage Room, <b>Inside Drawers</b>	Liquid Scintillation Analyzer	35	6	N/A	Geiger Survey	ok
144	4/7/2014	18	Suite B-2 Storage Room, <b>Inside Drawers</b>	Liquid Scintillation Analyzer	39	8	N/A	Geiger Survey	ok
145	4/7/2014	19	Suite B-2 Storage Room, <b>Inside Drawers</b>	Liquid Scintillation Analyzer	28	12	N/A	Geiger Survey	ok
146	4/7/2014	20	Suite B-2 Storage Room, <b>Inside Drawers</b>	Liquid Scintillation Analyzer	36	9	N/A	Geiger Survey	ok
147	4/7/2014	21	Suite B-2 Storage Room, <b>Inside Drawers</b>	Liquid Scintillation Analyzer	31	11	N/A	Geiger Survey	ok
148	4/7/2014	22	Suite B-2 Storage Room, <b>Inside Drawers</b>	Liquid Scintillation Analyzer	60	7	N/A	Geiger Survey	ok
149	4/7/2014	23	Suite B-2 Storage Room, <b>Inside Drawers</b>	Liquid Scintillation Analyzer	33	8	N/A	Geiger Survey	ok
150	4/7/2014	24	Suite B-2 Storage Room, <b>Inside Drawers</b>	Liquid Scintillation Analyzer	59	8	N/A	Geiger Survey	ok
151	4/7/2014	25	Suite B-2 Storage Room, <b>Inside Drawers</b>	Liquid Scintillation Analyzer	48	7	N/A	Geiger Survey	ok
152	4/7/2014	26	Suite B-2 Storage Room, <b>Inside Drawers</b>	Liquid Scintillation Analyzer	53	6	N/A	Geiger Survey	ok
153	4/7/2014	27	Suite B-2 Storage Room, <b>Inside Drawers</b>	Liquid Scintillation Analyzer	42	6	N/A	Geiger Survey	ok
154	4/7/2014	28	Suite B-2 Storage Room, <b>Inside Drawers</b>	Liquid Scintillation Analyzer	48	7	N/A	Geiger Survey	ok
155	4/7/2014	29	Suite B-2 Storage Room, <b>Inside Drawers</b>	Liquid Scintillation Analyzer	46	8	N/A	Geiger Survey	ok
156	4/7/2014	30	Suite B-2 Storage Room, <b>Inside Drawers</b>	Liquid Scintillation Analyzer	37	8	N/A	Geiger Survey	ok
157	4/7/2014	31	Suite B-2 Storage Room, <b>Inside Drawers</b>	Liquid Scintillation Analyzer	29	13	N/A	Geiger Survey	ok
158	4/7/2014	32	Suite B-2 Storage Room, <b>Inside Drawers</b>	Liquid Scintillation Analyzer	44	11	N/A	Geiger Survey	ok
159	4/7/2014	33	Suite B-2 Storage Room, <b>Inside Drawers</b>	Liquid Scintillation Analyzer	30	7	N/A	Geiger Survey	ok
160	4/7/2014	34	Suite B-2 Storage Room, <b>Inside Drawers</b>	Liquid Scintillation Analyzer	34	9	N/A	Geiger Survey	ok
161	4/7/2014	Back Gr 1	Gloves Background 1, After Sample 20	Liquid Scintillation Analyzer	34	9	N/A	Geiger Survey	ok
162	4/7/2014	Back Gr 2	Gloves Background 2, After Sample 34	Liquid Scintillation Analyzer	32	7	N/A	Geiger Survey	ok

**Tomczak, Tammy**

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**From:** Pelke, Patricia  
**Sent:** Monday, June 02, 2014 7:08 AM  
**To:** Tomczak, Tammy  
**Cc:** Lee, Peter; Orlikowski, Robert  
**Subject:** FW: Amendment to NRC license 21-32115-02  
**Attachments:** Amendment to License - Reduced Laboratory Space Suite B (29May14).pdf  
  
**Importance:** High

Tammy,  
Please process this action in (type 6) and assign to Peter. I've already discussed it with him. Thanks - Patty

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**From:** Lee, Peter  
**Sent:** Friday, May 30, 2014 11:07 PM  
**To:** Pelke, Patricia  
**Subject:** FW: Amendment to NRC license 21-32115-02

Pat,

Mr. Cramer called me several month ago seeking guidance about partial release of the licensed facility. Should I handle the enclosed amendment ? Thanks.

peter

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**From:** Clay Cramer [ccramer@esperion.com]  
**Sent:** Thursday, May 29, 2014 12:26 PM  
**To:** Lee, Peter  
**Cc:** Tim Mayleben  
**Subject:** Amendment to NRC license 21-32115-02

Hi Dr. Lee, When we last communicated we discussed Esperion's plan to modify our laboratory space and amend Esperion's material license (No 21-32115-02) for Suite B at Michigan Life Science and Innovation Center (MLSIC), 46701 Commerce Center Drive, Plymouth Mi. The Suite B laboratory, that we previously occupied was approximately 5000 ft2. The changes reduced the space to approximately 3000 ft2 by constructing a wall to divided the laboratory. The start of the project was postponed several months due to logistics. The attached document details the surveys conducted prior to the laboratory space reduction activities. Standard procedures were used to survey the whole area to support the work and provide documents to support the decommission of the unneeded (Suite B-2 on South side of wall) laboratory space. Thank you for your time in this matter, if you have questions/comments please feel free to contact me as needed.

Thank you,

**Clay T. Cramer, M.S.**  
*Director, Non-Clinical Development*  
*Esperion Therapeutics, Inc.*  
*3891 Ranchero Drive, Suite 150*  
*Ann Arbor, MI 48108*

*Cell: 734-546-4606*  
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