

November 18, 2013

FAL Project ID: 8155

Mr. Mark Katchen
Phylmar Group
2342 Manning Avenue
Los Angeles, CA 90064

Dear Mr. Katchen,

Attached are the results for Frontier Analytical Laboratory project **8155**. This corresponds to your project number **365-001A** and project name **MHS/Cabrillo Monitoring**. Fifteen wipe samples were received on 11/5/2013 in good condition. All fifteen wipe samples were extracted and analyzed by EPA Method 1668C for all 209 polychlorinated biphenyls (PCBs). In addition, the total PCB concentration is listed in the upper right hand portion of page one of each sample data page. **Please note the results are reported in pg/sample**. The results have not been adjusted for the surface area of the wipe sample. The Phylmar Group requested a turnaround time of ten business days for project **8155**.

The following report consists of an Analytical Data section and a Sample Receipt section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your chain of custody, our sample login form and the sample photo. The attached results are specifically for the samples referenced in this report only. These results shall not be reproduced except in full. Frontier Analytical Laboratory's NELAP Certificate number is 02113CA. This report has been emailed to you as a PDF file. A hardcopy will not be sent to you unless specifically requested.

If you have any questions regarding project **8155**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,



Bradley B. Silverbush
Director of Operations

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **8155**

Received on: **11/05/2013**

Project Due: **11/20/2013**

Storage: **R2**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
8155-001-SA	0	365-001A	HC20131102-W-1A	EPA 1668 PCB	Wipe	11/02/2013	NP	11/02/2014
8155-002-SA	0	365-001A	HC20131102-W-1B	EPA 1668 PCB	Wipe	11/02/2013	NP	11/02/2014
8155-003-SA	0	365-001A	HC20131102-W-1C	EPA 1668 PCB	Wipe	11/02/2013	NP	11/02/2014
8155-004-SA	0	365-001A	HC20131102-W-2A	EPA 1668 PCB	Wipe	11/02/2013	NP	11/02/2014
8155-005-SA	0	365-001A	HC20131102-W-2B	EPA 1668 PCB	Wipe	11/02/2013	NP	11/02/2014
8155-006-SA	0	365-001A	HC20131102-W-2C	EPA 1668 PCB	Wipe	11/02/2013	NP	11/02/2014
8155-007-SA	0	365-001A	HC20131102-W-3A	EPA 1668 PCB	Wipe	11/02/2013	NP	11/02/2014
8155-008-SA	0	365-001A	HC20131102-W-3B	EPA 1668 PCB	Wipe	11/02/2013	NP	11/02/2014
8155-009-SA	0	365-001A	HC20131102-W-3C	EPA 1668 PCB	Wipe	11/02/2013	NP	11/02/2014
8155-010-SA	0	365-001A	HC20131102-W-4A	EPA 1668 PCB	Wipe	11/02/2013	NP	11/02/2014
8155-011-SA	0	365-001A	HC20131102-W-4B	EPA 1668 PCB	Wipe	11/02/2013	NP	11/02/2014
8155-012-SA	0	365-001A	HC20131102-W-4C	EPA 1668 PCB	Wipe	11/02/2013	NP	11/02/2014
8155-013-SA	0	365-001A	HC20131102-W-5A	EPA 1668 PCB	Wipe	11/02/2013	NP	11/02/2014
8155-014-SA	0	365-001A	HC20131102-W-5B	EPA 1668 PCB	Wipe	11/02/2013	NP	11/02/2014
8155-015-SA	0	365-001A	HC20131102-W-5C	EPA 1668 PCB	Wipe	11/02/2013	NP	11/02/2014

EPA Modified Method 1668 PCBs



FAL ID: 8155-001-MB
Client ID: Method Blank
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013
Total Conc: 13.1

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	ND	3.03			PCB-51	ND	3.50		
PCB-2	ND	4.13			PCB-52	ND	2.87	C	69
PCB-3	ND	3.42			PCB-53	ND	3.70		
PCB-4	ND	7.81			PCB-54	ND	2.07		
PCB-5	ND	7.41			PCB-55	ND	2.69		
PCB-6	ND	6.14			PCB-56	ND	4.08	C	60
PCB-7	ND	7.05			PCB-57	ND	2.66		
PCB-8	ND	6.30			PCB-58	ND	2.77		
PCB-9	ND	6.23			PCB-59	-	-	C042	42
PCB-10	ND	6.14			PCB-60	-	-	C056	56
PCB-11	13.1	-	J		PCB-61	ND	2.72	C	70
PCB-12	ND	6.74			PCB-62	ND	3.04		
PCB-13	ND	6.90			PCB-63	ND	2.61		
PCB-14	ND	6.47			PCB-64	-	-	C041	41/71/72
PCB-15	ND	5.20			PCB-65	ND	2.68		
PCB-16	ND	3.13			PCB-66	ND	2.48	C	76
PCB-17	ND	3.78			PCB-67	ND	2.55		
PCB-18	ND	4.27			PCB-68	ND	2.58		
PCB-19	ND	3.17			PCB-69	-	-	C052	52
PCB-20	ND	2.96	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	ND	2.93			PCB-72	-	-	C041	41/64/71
PCB-23	ND	3.31			PCB-73	ND	2.89		
PCB-24	ND	2.96			PCB-74	ND	1.94		
PCB-25	ND	2.96			PCB-75	-	-	C048	48
PCB-26	ND	3.15			PCB-76	-	-	C066	66
PCB-27	ND	2.81			PCB-77	ND	3.78		
PCB-28	ND	2.80			PCB-78	ND	4.42		
PCB-29	ND	3.07			PCB-79	ND	4.26		
PCB-30	ND	2.75			PCB-80	ND	2.25		
PCB-31	ND	2.89			PCB-81	ND	3.93		
PCB-32	ND	2.91			PCB-82	ND	9.29		
PCB-33	-	-	C020	20/21	PCB-83	ND	6.57	C	112
PCB-34	ND	3.10			PCB-84	ND	7.22	C	92
PCB-35	ND	3.07			PCB-85	ND	6.43	C	116
PCB-36	ND	2.87			PCB-86	ND	6.30		
PCB-37	ND	2.28			PCB-87	ND	5.91	C	117/125
PCB-38	ND	3.00			PCB-88	ND	6.40	C	91
PCB-39	ND	3.06			PCB-89	ND	7.75		
PCB-40	ND	4.67			PCB-90	ND	6.99	C	101
PCB-41	ND	2.80	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	ND	3.06	C	59	PCB-92	-	-	C084	84
PCB-43	ND	3.07	C	49	PCB-93	ND	5.82		
PCB-44	ND	3.13			PCB-94	ND	6.99		
PCB-45	ND	3.90			PCB-95	ND	5.36		
PCB-46	ND	4.12			PCB-96	ND	4.42		
PCB-47	ND	3.23			PCB-97	ND	7.16		
PCB-48	ND	2.83	C	75	PCB-98	ND	5.51	C	102
PCB-49	-	-	C043	43	PCB-99	ND	6.65		
PCB-50	ND	3.47			PCB-100	ND	5.77		

000003 of 000054

EPA Modified Method 1668

PCBs



FAL ID: 8155-001-MB
Client ID: Method Blank
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	ND	6.04		
PCB-102	-	-	C098	98	PCB-152	ND	3.19		
PCB-103	ND	5.35			PCB-153	ND	4.93		
PCB-104	ND	3.27			PCB-154	ND	3.65		
PCB-105	ND	5.34			PCB-155	ND	2.32		
PCB-106	ND	5.57	C	118	PCB-156	ND	4.89		
PCB-107	ND	5.53	C	108	PCB-157	ND	5.26		
PCB-108	-	-	C107	107	PCB-158	ND	4.48	C	160
PCB-109	ND	6.10			PCB-159	ND	4.28		
PCB-110	ND	4.05			PCB-160	-	-	C158	158
PCB-111	ND	5.15	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	5.89			PCB-163	-	-	C138	138/164
PCB-114	ND	4.92			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	ND	4.61		
PCB-117	-	-	C087	87/125	PCB-167	ND	4.72		
PCB-118	-	-	C106	106	PCB-168	ND	4.66		
PCB-119	ND	5.28			PCB-169	ND	3.53		
PCB-120	ND	5.02			PCB-170	ND	7.33		
PCB-121	ND	4.60			PCB-171	ND	6.20		
PCB-122	ND	5.52			PCB-172	ND	6.78		
PCB-123	ND	5.15			PCB-173	ND	7.27		
PCB-124	ND	5.08			PCB-174	ND	6.51		
PCB-125	-	-	C087	87/117	PCB-175	ND	6.10		
PCB-126	ND	4.43			PCB-176	ND	4.36		
PCB-127	ND	5.44			PCB-177	ND	6.87		
PCB-128	ND	5.61	C	162	PCB-178	ND	6.23		
PCB-129	ND	6.96			PCB-179	ND	4.23		
PCB-130	ND	7.07			PCB-180	ND	5.88		
PCB-131	ND	6.13	C	133	PCB-181	ND	6.29		
PCB-132	ND	5.25	C	161	PCB-182	ND	5.75	C	187
PCB-133	-	-	C131	131	PCB-183	ND	5.61		
PCB-134	ND	6.17	C	143	PCB-184	ND	4.37		
PCB-135	ND	6.11			PCB-185	ND	6.56		
PCB-136	ND	3.16			PCB-186	ND	4.85		
PCB-137	ND	5.90			PCB-187	-	-	C182	182
PCB-138	ND	4.15	C	163/164	PCB-188	ND	3.80		
PCB-139	ND	5.59	C	149	PCB-189	ND	3.51		
PCB-140	ND	5.46			PCB-190	ND	5.40		
PCB-141	ND	5.73			PCB-191	ND	4.83		
PCB-142	ND	6.58			PCB-192	ND	5.54		
PCB-143	-	-	C134	134	PCB-193	ND	4.78		
PCB-144	ND	5.76			PCB-194	ND	4.14		
PCB-145	ND	3.42			PCB-195	ND	4.73		
PCB-146	ND	4.99	C	165	PCB-196	ND	5.25	C	203
PCB-147	ND	5.44			PCB-197	ND	4.00		
PCB-148	ND	4.40			PCB-198	ND	6.02		
PCB-149	-	-	C139	139	PCB-199	ND	5.79		
PCB-150	ND	3.39			PCB-200	ND	3.85		

000004 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-001-MB
Client ID: Method Blank
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: NA
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013

Page 3 of 3

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	3.78		
PCB-202	ND	3.01		
PCB-203	-	-	C196	196
PCB-204	ND	3.88		
PCB-205	ND	2.48		
PCB-206	ND	4.16		
PCB-207	ND	3.97		
PCB-208	ND	2.85		
PCB-209	ND	4.70		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	97.5	5.00 - 145	
13C-PCB-3	89.7	5.00 - 145	
13C-PCB-4	96.2	5.00 - 145	
13C-PCB-15	93.4	5.00 - 145	
13C-PCB-19	94.8	5.00 - 145	
13C-PCB-37	94.4	5.00 - 145	
13C-PCB-54	96.1	5.00 - 145	
13C-PCB-77	91.6	10.0 - 145	
13C-PCB-81	89.9	10.0 - 145	
13C-PCB-104	93.6	10.0 - 145	
13C-PCB-105	97.6	10.0 - 145	
13C-PCB-114	95.6	10.0 - 145	
13C-PCB-118	92.9	10.0 - 145	
13C-PCB-123	95.2	10.0 - 145	
13C-PCB-126	95.5	10.0 - 145	
13C-PCB-155	94.8	10.0 - 145	
13C-PCB-156	95.9	10.0 - 145	
13C-PCB-157	96.1	10.0 - 145	
13C-PCB-167	97.5	10.0 - 145	
13C-PCB-169	97.9	10.0 - 145	
13C-PCB-188	93.7	10.0 - 145	
13C-PCB-189	96.5	10.0 - 145	
13C-PCB-202	94.0	10.0 - 145	
13C-PCB-205	97.7	10.0 - 145	
13C-PCB-206	96.0	10.0 - 145	
13C-PCB-208	99.5	10.0 - 145	
13C-PCB-209	95.7	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	101	5.00 - 145	
13C-PCB-111	91.4	10.0 - 145	
13C-PCB-178	94.2	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/18/2013

Reviewed By: 
Date: 11/18/2013

000005 of 000054

EPA Modified Method 1668
PCBs



FAL ID: 8155-001-OPR
Client ID: OPR
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: NA
Amount: 1.00 sample

ICal: 1668FAL4-10-24-13
GC Column: DB1
Units: ng/ml

Acquired: 11-08-2013

Compound	% Recovery	QC Limits	Qual	Internal Standards	% Recovery	QC Limits	Qual
PCB-1	106	60.0 - 135		13C-PCB-1	88.7	15.0 - 145	
PCB-3	109	60.0 - 135		13C-PCB-3	79.9	15.0 - 145	
PCB-4	109	60.0 - 135		13C-PCB-4	96.7	15.0 - 145	
PCB-15	117	60.0 - 135		13C-PCB-15	87.6	15.0 - 145	
PCB-19	105	60.0 - 135		13C-PCB-19	89.1	15.0 - 145	
PCB-37	107	60.0 - 135		13C-PCB-37	90.8	15.0 - 145	
PCB-54	96.8	60.0 - 135		13C-PCB-54	105	15.0 - 145	
PCB-77	111	60.0 - 135		13C-PCB-77	94.4	40.0 - 145	
PCB-81	116	60.0 - 135		13C-PCB-81	92.1	40.0 - 145	
PCB-104	107	60.0 - 135		13C-PCB-104	85.6	40.0 - 145	
PCB-105	108	60.0 - 135		13C-PCB-105	112	40.0 - 145	
PCB-114	110	60.0 - 135		13C-PCB-114	114	40.0 - 145	
PCB-118	110	60.0 - 135		13C-PCB-118	109	40.0 - 145	
PCB-123	109	60.0 - 135		13C-PCB-123	117	40.0 - 145	
PCB-126	111	60.0 - 135		13C-PCB-126	105	40.0 - 145	
PCB-155	111	60.0 - 135		13C-PCB-155	89.2	40.0 - 145	
PCB-156	115	60.0 - 135		13C-PCB-156	96.3	40.0 - 145	
PCB-157	120	60.0 - 135		13C-PCB-157	93.8	40.0 - 145	
PCB-167	116	60.0 - 135		13C-PCB-167	95.1	40.0 - 145	
PCB-169	115	60.0 - 135		13C-PCB-169	95.7	40.0 - 145	
PCB-188	113	60.0 - 135		13C-PCB-188	104	40.0 - 145	
PCB-189	113	60.0 - 135		13C-PCB-189	94.4	40.0 - 145	
PCB-202	112	60.0 - 135		13C-PCB-202	95.8	40.0 - 145	
PCB-205	125	60.0 - 135		13C-PCB-205	86.5	40.0 - 145	
PCB-206	113	60.0 - 135		13C-PCB-206	91.7	40.0 - 145	
PCB-208	107	60.0 - 135		13C-PCB-208	101	40.0 - 145	
PCB-209	125	60.0 - 135		13C-PCB-209	74.1	40.0 - 145	
				Cleanup Surrogate	% Recovery	QC limits	Qual
				13C-PCB-28	106	15.0 - 145	
				13C-PCB-111	90.0	40.0 - 145	
				13C-PCB-178	104	40.0 - 145	

Analyst: 

Date: 11/18/2013

Reviewed By: 

Date: 11/18/2013

EPA Modified Method 1668 PCBs



FAL ID: 8155-001-SA
Client ID: HC20131102-W-1A
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013
Total Conc: 5010

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	15.0	-	J		PCB-51	ND	2.86		
PCB-2	ND	5.47			PCB-52	163	-	C	69
PCB-3	15.1	-	J		PCB-53	12.3	-	J	
PCB-4	22.3	-	J		PCB-54	ND	1.69		
PCB-5	ND	9.26			PCB-55	ND	2.20		
PCB-6	21.1	-	J		PCB-56	50.3	-	C	60
PCB-7	ND	8.80			PCB-57	ND	2.17		
PCB-8	71.4	-			PCB-58	ND	2.26		
PCB-9	ND	7.79			PCB-59	-	-	C042,J	42
PCB-10	ND	7.67			PCB-60	-	-	C056	56
PCB-11	257	-	B		PCB-61	190	-	C	70
PCB-12	ND	8.43			PCB-62	ND	2.48		
PCB-13	ND	8.62			PCB-63	ND	2.13		
PCB-14	ND	8.08			PCB-64	-	-	C041	41/71/72
PCB-15	21.1	-	J		PCB-65	ND	2.19		
PCB-16	20.6	-	J		PCB-66	82.3	-	C	76
PCB-17	28.7	-	J		PCB-67	ND	2.08		
PCB-18	62.2	-			PCB-68	ND	2.11		
PCB-19	10.0	-	J		PCB-69	-	-	C052	52
PCB-20	42.7	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	20.9	-	J		PCB-72	-	-	C041	41/64/71
PCB-23	ND	4.46			PCB-73	ND	2.36		
PCB-24	ND	3.25			PCB-74	36.3	-	J	
PCB-25	ND	3.99			PCB-75	-	-	C048,J	48
PCB-26	11.8	-	J		PCB-76	-	-	C066	66
PCB-27	ND	3.08			PCB-77	13.5	-	J	
PCB-28	56.1	-			PCB-78	ND	6.81		
PCB-29	ND	4.14			PCB-79	ND	6.56		
PCB-30	ND	3.02			PCB-80	ND	1.83		
PCB-31	52.7	-			PCB-81	ND	6.19		
PCB-32	12.0	-	J		PCB-82	51.9	-		
PCB-33	-	-	C020	20/21	PCB-83	17.3	-	C,J	112
PCB-34	ND	4.17			PCB-84	142	-	C	92
PCB-35	ND	4.14			PCB-85	51.8	-	C	116
PCB-36	ND	3.87			PCB-86	ND	7.57		
PCB-37	14.4	-	J		PCB-87	154	-	C	117/125
PCB-38	ND	4.04			PCB-88	48.5	-	C	91
PCB-39	ND	4.12			PCB-89	ND	9.31		
PCB-40	14.3	-	J		PCB-90	393	-	C	101
PCB-41	63.9	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	21.3	-	C,J	59	PCB-92	-	-	C084	84
PCB-43	57.9	-	C	49	PCB-93	ND	5.69		
PCB-44	80.4	-			PCB-94	ND	6.83		
PCB-45	ND	3.18			PCB-95	242	-		
PCB-46	ND	3.36			PCB-96	ND	4.32		
PCB-47	19.0	-	J		PCB-97	107	-		
PCB-48	12.4	-	C,J	75	PCB-98	ND	5.39	C	102
PCB-49	-	-	C043	43	PCB-99	157	-		
PCB-50	ND	2.83			PCB-100	ND	5.64		

000007 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-001-SA
Client ID: HC20131102-W-1A
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	35.3	-	J	
PCB-102	-	-	C098	98	PCB-152	ND	2.33		
PCB-103	ND	5.23			PCB-153	184	-		
PCB-104	ND	3.20			PCB-154	ND	2.66		
PCB-105	125	-			PCB-155	ND	1.69		
PCB-106	336	-	C	118	PCB-156	32.9	-	J	
PCB-107	25.4	-	C,J	108	PCB-157	11.2	-	J	
PCB-108	-	-	C107,J	107	PCB-158	38.8	-	C,J	160
PCB-109	ND	7.33			PCB-159	ND	4.28		
PCB-110	295	-			PCB-160	-	-	C158,J	158
PCB-111	ND	6.19	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083,J	83	PCB-162	-	-	C128	128
PCB-113	ND	7.08			PCB-163	-	-	C138	138/164
PCB-114	ND	7.50			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146,J	146
PCB-116	-	-	C085	85	PCB-166	ND	4.61		
PCB-117	-	-	C087	87/125	PCB-167	14.2	-	J	
PCB-118	-	-	C106	106	PCB-168	ND	4.66		
PCB-119	ND	6.34			PCB-169	ND	3.45		
PCB-120	ND	6.03			PCB-170	32.4	-	J	
PCB-121	ND	4.50			PCB-171	ND	7.07		
PCB-122	ND	8.35			PCB-172	ND	7.73		
PCB-123	15.3	-	J		PCB-173	ND	8.30		
PCB-124	14.9	-	J		PCB-174	25.4	-	J	
PCB-125	-	-	C087	87/117	PCB-175	ND	6.96		
PCB-126	ND	6.21			PCB-176	ND	4.98		
PCB-127	ND	8.23			PCB-177	17.0	-	J	
PCB-128	54.5	-	C	162	PCB-178	ND	7.11		
PCB-129	23.5	-	J		PCB-179	ND	4.83		
PCB-130	24.7	-	J		PCB-180	46.3	-		
PCB-131	11.6	-	C,J	133	PCB-181	ND	7.18		
PCB-132	86.0	-	C	161	PCB-182	27.0	-	C,J	187
PCB-133	-	-	C131,J	131	PCB-183	15.0	-	J	
PCB-134	20.5	-	C,J	143	PCB-184	ND	4.99		
PCB-135	28.6	-	J		PCB-185	ND	7.49		
PCB-136	31.3	-	J		PCB-186	ND	5.53		
PCB-137	22.5	-	J		PCB-187	-	-	C182,J	182
PCB-138	219	-	C	163/164	PCB-188	ND	4.28		
PCB-139	172	-	C	149	PCB-189	ND	4.08		
PCB-140	ND	5.46			PCB-190	ND	6.16		
PCB-141	45.1	-			PCB-191	ND	5.51		
PCB-142	ND	6.58			PCB-192	ND	6.32		
PCB-143	-	-	C134,J	134	PCB-193	ND	5.45		
PCB-144	12.2	-	J		PCB-194	ND	4.01		
PCB-145	ND	2.50			PCB-195	ND	4.59		
PCB-146	30.5	-	C,J	165	PCB-196	ND	8.45	C	203
PCB-147	ND	5.44			PCB-197	ND	6.44		
PCB-148	ND	3.21			PCB-198	ND	9.69		
PCB-149	-	-	C139	139	PCB-199	ND	9.32		
PCB-150	ND	2.47			PCB-200	ND	6.20		

000008 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-001-SA
Client ID: HC20131102-W-1A
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013

Page 3 of 3

Compound	Conc	DL	Qual	Coeluters
PCB-201	ND	6.08		
PCB-202	ND	4.85		
PCB-203	-	-	C196	196
PCB-204	ND	6.25		
PCB-205	ND	2.41		
PCB-206	ND	6.02		
PCB-207	ND	5.90		
PCB-208	ND	4.33		
PCB-209	ND	6.14		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	96.9	5.00 - 145	
13C-PCB-3	94.6	5.00 - 145	
13C-PCB-4	98.7	5.00 - 145	
13C-PCB-15	99.3	5.00 - 145	
13C-PCB-19	99.4	5.00 - 145	
13C-PCB-37	103	5.00 - 145	
13C-PCB-54	102	5.00 - 145	
13C-PCB-77	104	10.0 - 145	
13C-PCB-81	104	10.0 - 145	
13C-PCB-104	99.0	10.0 - 145	
13C-PCB-105	104	10.0 - 145	
13C-PCB-114	102	10.0 - 145	
13C-PCB-118	102	10.0 - 145	
13C-PCB-123	104	10.0 - 145	
13C-PCB-126	109	10.0 - 145	
13C-PCB-155	101	10.0 - 145	
13C-PCB-156	104	10.0 - 145	
13C-PCB-157	107	10.0 - 145	
13C-PCB-167	107	10.0 - 145	
13C-PCB-169	112	10.0 - 145	
13C-PCB-188	94.2	10.0 - 145	
13C-PCB-189	107	10.0 - 145	
13C-PCB-202	96.5	10.0 - 145	
13C-PCB-205	110	10.0 - 145	
13C-PCB-206	103	10.0 - 145	
13C-PCB-208	104	10.0 - 145	
13C-PCB-209	98.6	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	111	5.00 - 145	
13C-PCB-111	108	10.0 - 145	
13C-PCB-178	103	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/18/2013

Reviewed By: 
Date: 11/18/2013

000009 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-002-SA
Client ID: HC20131102-W-1B
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-12-13
GC Column: DB1
Units: pg/sample

Acquired: 11-12-2013
Total Conc: 7920000

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	189	-			PCB-51	2030	-		
PCB-2	91.8	-			PCB-52	390000	-	C	69
PCB-3	346	-			PCB-53	13100	-		
PCB-4	561	-			PCB-54	75.3	-		
PCB-5	89.1	-			PCB-55	2540	-		
PCB-6	667	-			PCB-56	60400	-	C	60
PCB-7	166	-			PCB-57	302	-		
PCB-8	4000	-			PCB-58	80.7	-		
PCB-9	157	-			PCB-59	-	-	C042	42
PCB-10	49.7	-			PCB-60	-	-	C056	56
PCB-11	3310	-	B		PCB-61	292000	-	C	70
PCB-12	205	-			PCB-62	ND	45.3		
PCB-13	815	-			PCB-63	3310	-		
PCB-14	ND	23.6			PCB-64	-	-	C041	41/71/72
PCB-15	4230	-			PCB-65	ND	43.7		
PCB-16	5060	-			PCB-66	104000	-	C	76
PCB-17	4780	-			PCB-67	1590	-		
PCB-18	14400	-			PCB-68	237	-		
PCB-19	622	-			PCB-69	-	-	C052	52
PCB-20	22200	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	13100	-			PCB-72	-	-	C041	41/64/71
PCB-23	38.7	-	J		PCB-73	ND	42.7		
PCB-24	224	-			PCB-74	47900	-		
PCB-25	2030	-			PCB-75	-	-	C048	48
PCB-26	4750	-			PCB-76	-	-	C066	66
PCB-27	923	-			PCB-77	10800	-		
PCB-28	28500	-			PCB-78	1150	-		
PCB-29	228	-			PCB-79	3950	-		
PCB-30	ND	8.63			PCB-80	ND	33.3		
PCB-31	30900	-			PCB-81	8300	-		
PCB-32	4930	-			PCB-82	70400	-		
PCB-33	-	-	C020	20/21	PCB-83	22000	-	C	112
PCB-34	87.0	-			PCB-84	244000	-	C	92
PCB-35	1220	-			PCB-85	78000	-	C	116
PCB-36	67.4	-			PCB-86	1280	-		
PCB-37	10200	-			PCB-87	237000	-	C	117/125
PCB-38	305	-			PCB-88	80000	-	C	91
PCB-39	51.3	-			PCB-89	3510	-		
PCB-40	13700	-			PCB-90	606000	-	C	101
PCB-41	82500	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	16500	-	C	59	PCB-92	-	-	C084	84
PCB-43	89800	-	C	49	PCB-93	ND	24.4		
PCB-44	156000	-			PCB-94	2210	-		
PCB-45	6780	-			PCB-95	519000	-		
PCB-46	3540	-			PCB-96	4110	-		
PCB-47	13200	-			PCB-97	164000	-		
PCB-48	9620	-	C	75	PCB-98	ND	21.0	C	102
PCB-49	-	-	C043	43	PCB-99	201000	-		
PCB-50	80.0	-			PCB-100	971	-		

000010 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-002-SA
Client ID: HC20131102-W-1B
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-12-13
GC Column: DB1
Units: pg/sample

Acquired: 11-12-2013

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	60000	-		
PCB-102	-	-	C098	98	PCB-152	715	-		
PCB-103	2510	-			PCB-153	363000	-		
PCB-104	38.6	-	J		PCB-154	3320	-		
PCB-105	246000	-			PCB-155	ND	18.7		
PCB-106	602000	-	C	118	PCB-156	84000	-		
PCB-107	32900	-	C	108	PCB-157	20500	-		
PCB-108	-	-	C107	107	PCB-158	78900	-	C	160
PCB-109	60.2	-			PCB-159	1090	-		
PCB-110	493000	-			PCB-160	-	-	C158	158
PCB-111	9280	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	45.2			PCB-163	-	-	C138	138/164
PCB-114	13200	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	3300	-		
PCB-117	-	-	C087	87/125	PCB-167	30300	-		
PCB-118	-	-	C106	106	PCB-168	589	-		
PCB-119	6650	-			PCB-169	81.5	-		
PCB-120	858	-			PCB-170	83500	-		
PCB-121	ND	16.8			PCB-171	19800	-		
PCB-122	6810	-			PCB-172	10400	-		
PCB-123	7470	-			PCB-173	1840	-		
PCB-124	23900	-			PCB-174	47500	-		
PCB-125	-	-	C087	87/117	PCB-175	2350	-		
PCB-126	2270	-			PCB-176	6060	-		
PCB-127	ND	43.8			PCB-177	30900	-		
PCB-128	122000	-	C	162	PCB-178	6950	-		
PCB-129	39100	-			PCB-179	14100	-		
PCB-130	44200	-			PCB-180	115000	-		
PCB-131	15700	-	C	133	PCB-181	1260	-		
PCB-132	187000	-	C	161	PCB-182	39300	-	C	187
PCB-133	-	-	C131	131	PCB-183	25600	-		
PCB-134	28600	-	C	143	PCB-184	115	-		
PCB-135	56400	-			PCB-185	4530	-		
PCB-136	79000	-			PCB-186	55.9	-		
PCB-137	37300	-			PCB-187	-	-	C182	182
PCB-138	497000	-	C	163/164	PCB-188	60.8	-		
PCB-139	329000	-	C	149	PCB-189	2820	-		
PCB-140	1980	-			PCB-190	13000	-		
PCB-141	92800	-			PCB-191	3090	-		
PCB-142	183	-			PCB-192	ND	19.9		
PCB-143	-	-	C134	134	PCB-193	4990	-		
PCB-144	19300	-			PCB-194	10300	-		
PCB-145	306	-			PCB-195	3830	-		
PCB-146	53200	-	C	165	PCB-196	13600	-	C	203
PCB-147	8950	-			PCB-197	476	-		
PCB-148	29.2	-			PCB-198	740	-		
PCB-149	-	-	C139	139	PCB-199	13300	-		
PCB-150	609	-			PCB-200	1460	-		

000011 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-002-SA
Client ID: HC20131102-W-1B
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-12-13
GC Column: DB1
Units: pg/sample

Acquired: 11-12-2013

Page 3 of 3

Compound	Conc	DL	Qual	Coeluters
PCB-201	1500	-		
PCB-202	1660	-		
PCB-203	-	-	C196	196
PCB-204	ND	23.4		
PCB-205	335	-		
PCB-206	1870	-		
PCB-207	532	-		
PCB-208	636	-		
PCB-209	383	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	91.1	5.00 - 145	
13C-PCB-3	84.3	5.00 - 145	
13C-PCB-4	94.5	5.00 - 145	
13C-PCB-15	88.3	5.00 - 145	
13C-PCB-19	91.9	5.00 - 145	
13C-PCB-37	92.7	5.00 - 145	
13C-PCB-54	95.1	5.00 - 145	
13C-PCB-77	88.5	10.0 - 145	
13C-PCB-81	89.6	10.0 - 145	
13C-PCB-104	93.8	10.0 - 145	
13C-PCB-105	100	10.0 - 145	
13C-PCB-114	86.7	10.0 - 145	
13C-PCB-118	90.2	10.0 - 145	
13C-PCB-123	99.2	10.0 - 145	
13C-PCB-126	97.8	10.0 - 145	
13C-PCB-155	86.1	10.0 - 145	
13C-PCB-156	97.9	10.0 - 145	
13C-PCB-157	96.1	10.0 - 145	
13C-PCB-167	96.9	10.0 - 145	
13C-PCB-169	97.5	10.0 - 145	
13C-PCB-188	87.4	10.0 - 145	
13C-PCB-189	103	10.0 - 145	
13C-PCB-202	92.5	10.0 - 145	
13C-PCB-205	93.7	10.0 - 145	
13C-PCB-206	89.3	10.0 - 145	
13C-PCB-208	90.2	10.0 - 145	
13C-PCB-209	88.8	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	102	5.00 - 145	
13C-PCB-111	97.0	10.0 - 145	
13C-PCB-178	101	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/18/2013

Reviewed By: 
Date: 11/18/2013

000012 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-003-SA
Client ID: HC20131102-W-1C
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-12-13
GC Column: DB1
Units: pg/sample

Acquired: 11-12-2013
Total Conc: 47600000

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	80.7	-			PCB-51	11400	-		
PCB-2	60.1	-			PCB-52	3910000	-	C	69
PCB-3	98.6	-			PCB-53	103000	-		
PCB-4	810	-			PCB-54	357	-		
PCB-5	93.7	-			PCB-55	17500	-		
PCB-6	1210	-			PCB-56	375000	-	C	60
PCB-7	131	-			PCB-57	1760	-		
PCB-8	6580	-			PCB-58	6070	-		
PCB-9	307	-			PCB-59	-	-	C042	42
PCB-10	34.0	-	J		PCB-60	-	-	C056	56
PCB-11	2480	-	B		PCB-61	2620000	-	C	70
PCB-12	504	-			PCB-62	ND	19.3		
PCB-13	1400	-			PCB-63	22500	-		
PCB-14	ND	16.1			PCB-64	-	-	C041	41/71/72
PCB-15	8540	-			PCB-65	ND	18.7		
PCB-16	21700	-			PCB-66	811000	-	C	76
PCB-17	19400	-			PCB-67	5950	-		
PCB-18	64300	-			PCB-68	1150	-		
PCB-19	2950	-			PCB-69	-	-	C052	52
PCB-20	93300	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	55100	-			PCB-72	-	-	C041	41/64/71
PCB-23	155	-			PCB-73	ND	18.2		
PCB-24	251	-			PCB-74	409000	-		
PCB-25	7710	-			PCB-75	-	-	C048	48
PCB-26	19800	-			PCB-76	-	-	C066	66
PCB-27	4890	-			PCB-77	24700	-		
PCB-28	94000	-			PCB-78	8080	-		
PCB-29	846	-			PCB-79	33700	-		
PCB-30	ND	9.81			PCB-80	ND	14.2		
PCB-31	130000	-			PCB-81	63000	-		
PCB-32	22000	-			PCB-82	414000	-		
PCB-33	-	-	C020	20/21	PCB-83	167000	-	C	112
PCB-34	301	-			PCB-84	2270000	-	C	92
PCB-35	4720	-			PCB-85	540000	-	C	116
PCB-36	141	-			PCB-86	7470	-		
PCB-37	43000	-			PCB-87	1690000	-	C	117/125
PCB-38	2020	-			PCB-88	780000	-	C	91
PCB-39	221	-			PCB-89	32100	-		
PCB-40	100000	-			PCB-90	5290000	-	C	101
PCB-41	689000	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	116000	-	C	59	PCB-92	-	-	C084	84
PCB-43	778000	-	C	49	PCB-93	ND	29.1		
PCB-44	1480000	-			PCB-94	20500	-		
PCB-45	39700	-			PCB-95	5290000	-		
PCB-46	22600	-			PCB-96	36200	-		
PCB-47	95300	-			PCB-97	1220000	-		
PCB-48	59800	-	C	75	PCB-98	ND	25.0	C	102
PCB-49	-	-	C043	43	PCB-99	1690000	-		
PCB-50	370	-			PCB-100	8710	-		

000013 of 000054

EPA Modified Method 1668

PCBs



FAL ID: 8155-003-SA
Client ID: HC20131102-W-1C
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-12-13
GC Column: DB1
Units: pg/sample

Acquired: 11-12-2013

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	345000	-		
PCB-102	-	-	C098	98	PCB-152	5210	-		
PCB-103	23700	-			PCB-153	1190000	-		
PCB-104	129	-			PCB-154	19100	-		
PCB-105	861000	-			PCB-155	ND	35.5		
PCB-106	2450000	-	C	118	PCB-156	124000	-		
PCB-107	148000	-	C	108	PCB-157	31400	-		
PCB-108	-	-	C107	107	PCB-158	200000	-	C	160
PCB-109	527	-			PCB-159	1980	-		
PCB-110	3230000	-			PCB-160	-	-	C158	158
PCB-111	74100	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	49.8			PCB-163	-	-	C138	138/164
PCB-114	56700	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	7410	-		
PCB-117	-	-	C087	87/125	PCB-167	48800	-		
PCB-118	-	-	C106	106	PCB-168	1920	-		
PCB-119	48500	-			PCB-169	182	-		
PCB-120	4940	-			PCB-170	86100	-		
PCB-121	ND	20.0			PCB-171	32300	-		
PCB-122	22900	-			PCB-172	12900	-		
PCB-123	36400	-			PCB-173	3380	-		
PCB-124	118000	-			PCB-174	77000	-		
PCB-125	-	-	C087	87/117	PCB-175	4760	-		
PCB-126	5490	-			PCB-176	18500	-		
PCB-127	ND	92.1			PCB-177	51100	-		
PCB-128	275000	-	C	162	PCB-178	14600	-		
PCB-129	101000	-			PCB-179	46900	-		
PCB-130	115000	-			PCB-180	122000	-		
PCB-131	71900	-	C	133	PCB-181	2690	-		
PCB-132	790000	-	C	161	PCB-182	71100	-	C	187
PCB-133	-	-	C131	131	PCB-183	48800	-		
PCB-134	157000	-	C	143	PCB-184	241	-		
PCB-135	307000	-			PCB-185	6870	-		
PCB-136	519000	-			PCB-186	150	-		
PCB-137	121000	-			PCB-187	-	-	C182	182
PCB-138	1330000	-	C	163/164	PCB-188	218	-		
PCB-139	1560000	-	C	149	PCB-189	2550	-		
PCB-140	10800	-			PCB-190	12900	-		
PCB-141	272000	-			PCB-191	3390	-		
PCB-142	739	-			PCB-192	ND	36.1		
PCB-143	-	-	C134	134	PCB-193	5040	-		
PCB-144	117000	-			PCB-194	5980	-		
PCB-145	2150	-			PCB-195	2350	-		
PCB-146	188000	-	C	165	PCB-196	6850	-	C	203
PCB-147	58800	-			PCB-197	484	-		
PCB-148	244	-			PCB-198	312	-		
PCB-149	-	-	C139	139	PCB-199	7140	-		
PCB-150	4880	-			PCB-200	927	-		

000014 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-003-SA
Client ID: HC20131102-W-1C
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-12-13
GC Column: DB1
Units: pg/sample

Acquired: 11-12-2013

Page 3 of 3

Compound	Conc	DL	Qual	Coeluters
PCB-201	1260	-		
PCB-202	1330	-		
PCB-203	-	-	C196	196
PCB-204	ND	14.2		
PCB-205	191	-		
PCB-206	446	-		
PCB-207	126	-		
PCB-208	138	-		
PCB-209	45.1	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	97.1	5.00 - 145	
13C-PCB-3	88.3	5.00 - 145	
13C-PCB-4	96.4	5.00 - 145	
13C-PCB-15	94.0	5.00 - 145	
13C-PCB-19	94.6	5.00 - 145	
13C-PCB-37	91.4	5.00 - 145	
13C-PCB-54	91.6	5.00 - 145	
13C-PCB-77	88.7	10.0 - 145	
13C-PCB-81	91.3	10.0 - 145	
13C-PCB-104	89.6	10.0 - 145	
13C-PCB-105	105	10.0 - 145	
13C-PCB-114	92.8	10.0 - 145	
13C-PCB-118	96.7	10.0 - 145	
13C-PCB-123	92.7	10.0 - 145	
13C-PCB-126	93.2	10.0 - 145	
13C-PCB-155	86.4	10.0 - 145	
13C-PCB-156	97.9	10.0 - 145	
13C-PCB-157	93.9	10.0 - 145	
13C-PCB-167	97.1	10.0 - 145	
13C-PCB-169	90.4	10.0 - 145	
13C-PCB-188	86.0	10.0 - 145	
13C-PCB-189	95.1	10.0 - 145	
13C-PCB-202	88.7	10.0 - 145	
13C-PCB-205	100	10.0 - 145	
13C-PCB-206	95.8	10.0 - 145	
13C-PCB-208	95.5	10.0 - 145	
13C-PCB-209	95.7	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	87.8	5.00 - 145	
13C-PCB-111	89.3	10.0 - 145	
13C-PCB-178	92.3	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/18/2013

Reviewed By: 
Date: 11/18/2013

000015 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-004-SA
Client ID: HC20131102-W-2A
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013
Total Conc: 685000

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	515	-			PCB-51	637	-		
PCB-2	192	-			PCB-52	36700	-	C	69
PCB-3	916	-			PCB-53	2440	-	J	
PCB-4	575	-			PCB-54	21.1	-		
PCB-5	64.1	-			PCB-55	303	-		
PCB-6	673	-			PCB-56	7200	-	C	60
PCB-7	203	-			PCB-57	53.1	-		
PCB-8	3610	-			PCB-58	18.4	-	J	
PCB-9	172	-			PCB-59	-	-	C042	42
PCB-10	28.7	-	J		PCB-60	-	-	C056	56
PCB-11	2100	-	B		PCB-61	33300	-	C	70
PCB-12	151	-			PCB-62	ND	3.02		
PCB-13	265	-			PCB-63	491	-		
PCB-14	ND	6.46			PCB-64	-	-	C041	41/71/72
PCB-15	1380	-			PCB-65	ND	2.67		
PCB-16	2460	-			PCB-66	13600	-	C	76
PCB-17	2550	-			PCB-67	245	-		
PCB-18	8890	-			PCB-68	56.4	-		
PCB-19	327	-			PCB-69	-	-	C052	52
PCB-20	7140	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	3890	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	7.61			PCB-73	166	-		
PCB-24	58.0	-			PCB-74	6520	-		
PCB-25	463	-			PCB-75	-	-	C048	48
PCB-26	1400	-			PCB-76	-	-	C066	66
PCB-27	400	-			PCB-77	683	-		
PCB-28	9610	-			PCB-78	137	-		
PCB-29	32.2	-	J		PCB-79	411	-		
PCB-30	ND	3.48			PCB-80	ND	2.23		
PCB-31	11100	-			PCB-81	863	-		
PCB-32	2370	-			PCB-82	5400	-		
PCB-33	-	-	C020	20/21	PCB-83	2140	-	C	112
PCB-34	22.7	-	J		PCB-84	27500	-	C	92
PCB-35	86.7	-			PCB-85	6540	-	C	116
PCB-36	ND	6.59			PCB-86	85.6	-		
PCB-37	1380	-			PCB-87	22100	-	C	117/125
PCB-38	47.3	-			PCB-88	9320	-	C	91
PCB-39	ND	7.03			PCB-89	447	-		
PCB-40	2650	-			PCB-90	63500	-	C	101
PCB-41	14700	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	3860	-	C	59	PCB-92	-	-	C084	84
PCB-43	12000	-	C	49	PCB-93	ND	4.36		
PCB-44	19700	-			PCB-94	279	-		
PCB-45	2210	-			PCB-95	60700	-		
PCB-46	977	-			PCB-96	421	-		
PCB-47	3290	-			PCB-97	15100	-		
PCB-48	2570	-	C	75	PCB-98	ND	4.13	C	102
PCB-49	-	-	C043	43	PCB-99	20100	-		
PCB-50	31.1	-	J		PCB-100	106	-		

000016 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-004-SA
Client ID: HC20131102-W-2A
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	6800	-		
PCB-102	-	-	C098	98	PCB-152	78.3	-		
PCB-103	253	-			PCB-153	19600	-		
PCB-104	ND	2.45			PCB-154	285	-		
PCB-105	9250	-			PCB-155	ND	3.94		
PCB-106	27800	-	C	118	PCB-156	1260	-		
PCB-107	1860	-	C	108	PCB-157	383	-		
PCB-108	-	-	C107	107	PCB-158	2800	-	C	160
PCB-109	ND	9.10			PCB-159	81.1	-		
PCB-110	39400	-			PCB-160	-	-	C158	158
PCB-111	878	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	8.79			PCB-163	-	-	C138	138/164
PCB-114	670	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	109	-		
PCB-117	-	-	C087	87/125	PCB-167	727	-		
PCB-118	-	-	C106	106	PCB-168	30.7	-	J	
PCB-119	539	-			PCB-169	ND	3.98		
PCB-120	88.3	-			PCB-170	1390	-		
PCB-121	ND	3.45			PCB-171	638	-		
PCB-122	311	-			PCB-172	261	-		
PCB-123	435	-			PCB-173	89.6	-		
PCB-124	1430	-			PCB-174	2330	-		
PCB-125	-	-	C087	87/117	PCB-175	128	-		
PCB-126	134	-			PCB-176	611	-		
PCB-127	ND	9.52			PCB-177	1310	-		
PCB-128	3460	-	C	162	PCB-178	521	-		
PCB-129	1430	-			PCB-179	1780	-		
PCB-130	1920	-			PCB-180	2620	-		
PCB-131	1000	-	C	133	PCB-181	55.8	-		
PCB-132	9850	-	C	161	PCB-182	2510	-	C	187
PCB-133	-	-	C131	131	PCB-183	1350	-		
PCB-134	2340	-	C	143	PCB-184	ND	4.98		
PCB-135	4850	-			PCB-185	309	-		
PCB-136	7790	-			PCB-186	ND	5.53		
PCB-137	1430	-			PCB-187	-	-	C182	182
PCB-138	18700	-	C	163/164	PCB-188	ND	4.76		
PCB-139	26400	-	C	149	PCB-189	32.9	-	J	
PCB-140	154	-			PCB-190	267	-		
PCB-141	4690	-			PCB-191	59.2	-		
PCB-142	ND	7.68			PCB-192	ND	6.31		
PCB-143	-	-	C134	134	PCB-193	128	-		
PCB-144	1830	-			PCB-194	168	-		
PCB-145	33.6	-	J		PCB-195	98.7	-		
PCB-146	2950	-	C	165	PCB-196	354	-	C	203
PCB-147	797	-			PCB-197	33.2	-	J	
PCB-148	ND	7.48			PCB-198	27.8	-	J	
PCB-149	-	-	C139	139	PCB-199	334	-		
PCB-150	61.8	-			PCB-200	94.2	-		

000017 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-004-SA
Client ID: HC20131102-W-2A
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013

Page 3 of 3

Compound	Conc	DL	Qual	Coeluters
PCB-201	94.6	-		
PCB-202	111	-		
PCB-203	-	-	C196	196
PCB-204	ND	3.34		
PCB-205	10.8	-	J	
PCB-206	29.3	-	J	
PCB-207	10.2	-	J	
PCB-208	13.3	-	J	
PCB-209	ND	5.27		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	92.8	5.00 - 145	
13C-PCB-3	93.2	5.00 - 145	
13C-PCB-4	96.7	5.00 - 145	
13C-PCB-15	96.0	5.00 - 145	
13C-PCB-19	94.0	5.00 - 145	
13C-PCB-37	99.3	5.00 - 145	
13C-PCB-54	92.3	5.00 - 145	
13C-PCB-77	99.9	10.0 - 145	
13C-PCB-81	99.6	10.0 - 145	
13C-PCB-104	95.7	10.0 - 145	
13C-PCB-105	103	10.0 - 145	
13C-PCB-114	97.0	10.0 - 145	
13C-PCB-118	94.9	10.0 - 145	
13C-PCB-123	101	10.0 - 145	
13C-PCB-126	105	10.0 - 145	
13C-PCB-155	92.9	10.0 - 145	
13C-PCB-156	102	10.0 - 145	
13C-PCB-157	105	10.0 - 145	
13C-PCB-167	103	10.0 - 145	
13C-PCB-169	109	10.0 - 145	
13C-PCB-188	90.1	10.0 - 145	
13C-PCB-189	110	10.0 - 145	
13C-PCB-202	91.3	10.0 - 145	
13C-PCB-205	96.9	10.0 - 145	
13C-PCB-206	93.3	10.0 - 145	
13C-PCB-208	93.1	10.0 - 145	
13C-PCB-209	90.0	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	101	5.00 - 145	
13C-PCB-111	99.2	10.0 - 145	
13C-PCB-178	94.4	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/18/2013

Reviewed By: 
Date: 11/18/2013

000018 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-005-SA
Client ID: HC20131102-W-2B
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013
Total Conc: 11400000

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	69.7	-			PCB-51	603	-		
PCB-2	29.4	-	J		PCB-52	374000	-	C	69
PCB-3	76.8	-			PCB-53	4750	-		
PCB-4	72.5	-			PCB-54	ND	4.56		
PCB-5	ND	7.94			PCB-55	4820	-		
PCB-6	76.7	-			PCB-56	78000	-	C	60
PCB-7	24.6	-	J		PCB-57	333	-		
PCB-8	357	-			PCB-58	110	-		
PCB-9	26.9	-	J		PCB-59	-	-	C042	42
PCB-10	ND	6.57			PCB-60	-	-	C056	56
PCB-11	1020	-	B		PCB-61	590000	-	C	70
PCB-12	19.9	-	J		PCB-62	ND	6.69		
PCB-13	42.3	-			PCB-63	5080	-		
PCB-14	ND	6.93			PCB-64	-	-	C041	41/71/72
PCB-15	214	-			PCB-65	ND	5.91		
PCB-16	501	-			PCB-66	175000	-	C	76
PCB-17	444	-			PCB-67	1230	-		
PCB-18	1510	-			PCB-68	136	-		
PCB-19	44.0	-			PCB-69	-	-	C052	52
PCB-20	4540	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	2900	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	7.86			PCB-73	590	-		
PCB-24	12.0	-	J		PCB-74	87600	-		
PCB-25	291	-			PCB-75	-	-	C048	48
PCB-26	854	-			PCB-76	-	-	C066	66
PCB-27	104	-			PCB-77	13600	-		
PCB-28	4960	-			PCB-78	2740	-		
PCB-29	24.4	-	J		PCB-79	9470	-		
PCB-30	ND	2.89			PCB-80	ND	4.95		
PCB-31	6460	-			PCB-81	19700	-		
PCB-32	601	-			PCB-82	123000	-		
PCB-33	-	-	C020	20/21	PCB-83	47000	-	C	112
PCB-34	ND	7.35			PCB-84	540000	-	C	92
PCB-35	375	-			PCB-85	148000	-	C	116
PCB-36	ND	6.82			PCB-86	1780	-		
PCB-37	4260	-			PCB-87	488000	-	C	117/125
PCB-38	183	-			PCB-88	183000	-	C	91
PCB-39	ND	7.27			PCB-89	7070	-		
PCB-40	17700	-			PCB-90	1250000	-	C	101
PCB-41	106000	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	16300	-	C	59	PCB-92	-	-	C084	84
PCB-43	83000	-	C	49	PCB-93	ND	6.83		
PCB-44	199000	-			PCB-94	4170	-		
PCB-45	2420	-			PCB-95	1120000	-		
PCB-46	1440	-			PCB-96	4690	-		
PCB-47	10800	-			PCB-97	336000	-		
PCB-48	6410	-	C	75	PCB-98	ND	6.46	C	102
PCB-49	-	-	C043	43	PCB-99	451000	-		
PCB-50	ND	7.65			PCB-100	1600	-		

000019 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-005-SA
Client ID: HC20131102-W-2B
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	106000	-		
PCB-102	-	-	C098	98	PCB-152	1300	-		
PCB-103	4320	-			PCB-153	373000	-		
PCB-104	ND	3.84			PCB-154	5760	-		
PCB-105	266000	-			PCB-155	ND	6.79		
PCB-106	772000	-	C	118	PCB-156	31200	-		
PCB-107	48400	-	C	108	PCB-157	9710	-		
PCB-108	-	-	C107	107	PCB-158	66400	-	C	160
PCB-109	71.6	-			PCB-159	796	-		
PCB-110	863000	-			PCB-160	-	-	C158	158
PCB-111	25100	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	15.1			PCB-163	-	-	C138	138/164
PCB-114	16300	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	2500	-		
PCB-117	-	-	C087	87/125	PCB-167	19900	-		
PCB-118	-	-	C106	106	PCB-168	628	-		
PCB-119	13300	-			PCB-169	45.8	-		
PCB-120	1460	-			PCB-170	30400	-		
PCB-121	ND	5.41			PCB-171	12300	-		
PCB-122	7090	-			PCB-172	5060	-		
PCB-123	11500	-			PCB-173	1380	-		
PCB-124	32300	-			PCB-174	39200	-		
PCB-125	-	-	C087	87/117	PCB-175	1840	-		
PCB-126	4670	-			PCB-176	6820	-		
PCB-127	ND	34.1			PCB-177	23000	-		
PCB-128	91600	-	C	162	PCB-178	6490	-		
PCB-129	33900	-			PCB-179	17600	-		
PCB-130	37100	-			PCB-180	54900	-		
PCB-131	20500	-	C	133	PCB-181	1030	-		
PCB-132	224000	-	C	161	PCB-182	36400	-	C	187
PCB-133	-	-	C131	131	PCB-183	21000	-		
PCB-134	47200	-	C	143	PCB-184	79.3	-		
PCB-135	84300	-			PCB-185	4170	-		
PCB-136	138000	-			PCB-186	42.8	-		
PCB-137	39600	-			PCB-187	-	-	C182	182
PCB-138	434000	-	C	163/164	PCB-188	55.1	-		
PCB-139	475000	-	C	149	PCB-189	485	-		
PCB-140	3000	-			PCB-190	5800	-		
PCB-141	90200	-			PCB-191	1210	-		
PCB-142	210	-			PCB-192	ND	5.03		
PCB-143	-	-	C134	134	PCB-193	2450	-		
PCB-144	32400	-			PCB-194	3800	-		
PCB-145	434	-			PCB-195	2630	-		
PCB-146	57400	-	C	165	PCB-196	6560	-	C	203
PCB-147	17700	-			PCB-197	365	-		
PCB-148	73.4	-			PCB-198	450	-		
PCB-149	-	-	C139	139	PCB-199	6050	-		
PCB-150	1060	-			PCB-200	1220	-		

000020 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-005-SA
Client ID: HC20131102-W-2B
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209FAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-08-2013

Page 3 of 3

Compound	Conc	DL	Qual	Coeluters
PCB-201	1090	-		
PCB-202	1080	-		
PCB-203	-	-	C196	196
PCB-204	ND	6.38		
PCB-205	151	-		
PCB-206	421	-		
PCB-207	120	-		
PCB-208	120	-		
PCB-209	29.0	-	J	

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	96.6	5.00 - 145	
13C-PCB-3	94.3	5.00 - 145	
13C-PCB-4	100	5.00 - 145	
13C-PCB-15	101	5.00 - 145	
13C-PCB-19	96.5	5.00 - 145	
13C-PCB-37	111	5.00 - 145	
13C-PCB-54	96.3	5.00 - 145	
13C-PCB-77	112	10.0 - 145	
13C-PCB-81	109	10.0 - 145	
13C-PCB-104	96.3	10.0 - 145	
13C-PCB-105	110	10.0 - 145	
13C-PCB-114	103	10.0 - 145	
13C-PCB-118	104	10.0 - 145	
13C-PCB-123	111	10.0 - 145	
13C-PCB-126	110	10.0 - 145	
13C-PCB-155	98.3	10.0 - 145	
13C-PCB-156	107	10.0 - 145	
13C-PCB-157	107	10.0 - 145	
13C-PCB-167	106	10.0 - 145	
13C-PCB-169	116	10.0 - 145	
13C-PCB-188	90.9	10.0 - 145	
13C-PCB-189	109	10.0 - 145	
13C-PCB-202	90.5	10.0 - 145	
13C-PCB-205	102	10.0 - 145	
13C-PCB-206	101	10.0 - 145	
13C-PCB-208	102	10.0 - 145	
13C-PCB-209	95.5	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	108	5.00 - 145	
13C-PCB-111	106	10.0 - 145	
13C-PCB-178	94.0	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/18/2013

Reviewed By: 
Date: 11/18/2013

000021 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-006-SA
Client ID: HC20131102-W-2C
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013
Total Conc: 470000

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	80.2	-			PCB-51	1150	-		
PCB-2	181	-			PCB-52	15000	-	C	69
PCB-3	668	-			PCB-53	2890	-		
PCB-4	88.0	-			PCB-54	109	-		
PCB-5	ND	8.45			PCB-55	361	-		
PCB-6	81.7	-			PCB-56	2240	-	C	60
PCB-7	22.3	-	J		PCB-57	120	-		
PCB-8	304	-			PCB-58	150	-		
PCB-9	41.5	-			PCB-59	-	-	C042	42
PCB-10	ND	7.14			PCB-60	-	-	C056	56
PCB-11	1340	-	B		PCB-61	22300	-	C	70
PCB-12	192	-			PCB-62	ND	4.71		
PCB-13	5120	-			PCB-63	126	-		
PCB-14	31.8	-	J		PCB-64	-	-	C041	41/71/72
PCB-15	7920	-			PCB-65	ND	3.94		
PCB-16	220	-			PCB-66	3580	-	C	76
PCB-17	377	-			PCB-67	417	-		
PCB-18	1290	-			PCB-68	196	-		
PCB-19	160	-			PCB-69	-	-	C052	52
PCB-20	824	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	313	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	5.84			PCB-73	71.9	-		
PCB-24	ND	4.32			PCB-74	940	-		
PCB-25	429	-			PCB-75	-	-	C048	48
PCB-26	2870	-			PCB-76	-	-	C066	66
PCB-27	163	-			PCB-77	1880	-		
PCB-28	850	-			PCB-78	151	-		
PCB-29	ND	5.35			PCB-79	1160	-		
PCB-30	ND	3.79			PCB-80	26.7	-	J	
PCB-31	1540	-			PCB-81	593	-		
PCB-32	227	-			PCB-82	5510	-		
PCB-33	-	-	C020	20/21	PCB-83	2080	-	C	112
PCB-34	34.2	-	J		PCB-84	16100	-	C	92
PCB-35	855	-			PCB-85	5810	-	C	116
PCB-36	582	-			PCB-86	30.9	-	J	
PCB-37	951	-			PCB-87	13900	-	C	117/125
PCB-38	24.1	-	J		PCB-88	6390	-	C	91
PCB-39	755	-			PCB-89	910	-		
PCB-40	763	-			PCB-90	38400	-	C	101
PCB-41	4930	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	2440	-	C	59	PCB-92	-	-	C084	84
PCB-43	7560	-	C	49	PCB-93	ND	5.43		
PCB-44	6620	-			PCB-94	436	-		
PCB-45	548	-			PCB-95	25300	-		
PCB-46	973	-			PCB-96	676	-		
PCB-47	1440	-			PCB-97	9830	-		
PCB-48	552	-	C	75	PCB-98	ND	3.98	C	102
PCB-49	-	-	C043	43	PCB-99	13900	-		
PCB-50	37.1	-	J		PCB-100	302	-		

000022 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-006-SA
Client ID: HC20131102-W-2C
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	2110	-		
PCB-102	-	-	C098	98	PCB-152	28.9	-	J	
PCB-103	433	-			PCB-153	21800	-		
PCB-104	21.6	-	J		PCB-154	350	-		
PCB-105	12100	-			PCB-155	ND	4.71		
PCB-106	21700	-	C	118	PCB-156	3190	-		
PCB-107	1990	-	C	108	PCB-157	1640	-		
PCB-108	-	-	C107	107	PCB-158	4290	-	C	160
PCB-109	30.2	-	J		PCB-159	52.3	-		
PCB-110	28900	-			PCB-160	-	-	C158	158
PCB-111	398	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	9.73			PCB-163	-	-	C138	138/164
PCB-114	435	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	167	-		
PCB-117	-	-	C087	87/125	PCB-167	2460	-		
PCB-118	-	-	C106	106	PCB-168	74.4	-		
PCB-119	860	-			PCB-169	41.0	-		
PCB-120	307	-			PCB-170	4470	-		
PCB-121	ND	3.90			PCB-171	985	-		
PCB-122	385	-			PCB-172	529	-		
PCB-123	438	-			PCB-173	99.3	-		
PCB-124	1590	-			PCB-174	1950	-		
PCB-125	-	-	C087	87/117	PCB-175	108	-		
PCB-126	945	-			PCB-176	223	-		
PCB-127	32.5	-	J		PCB-177	1350	-		
PCB-128	11200	-	C	162	PCB-178	273	-		
PCB-129	2310	-			PCB-179	431	-		
PCB-130	3350	-			PCB-180	5350	-		
PCB-131	901	-	C	133	PCB-181	88.8	-		
PCB-132	10900	-	C	161	PCB-182	1470	-	C	187
PCB-133	-	-	C131	131	PCB-183	1120	-		
PCB-134	1220	-	C	143	PCB-184	ND	5.57		
PCB-135	3400	-			PCB-185	166	-		
PCB-136	3200	-			PCB-186	ND	6.27		
PCB-137	2030	-			PCB-187	-	-	C182	182
PCB-138	29000	-	C	163/164	PCB-188	ND	5.01		
PCB-139	17300	-	C	149	PCB-189	122	-		
PCB-140	252	-			PCB-190	780	-		
PCB-141	4290	-			PCB-191	168	-		
PCB-142	ND	6.90			PCB-192	ND	6.95		
PCB-143	-	-	C134	134	PCB-193	221	-		
PCB-144	736	-			PCB-194	256	-		
PCB-145	17.0	-	J		PCB-195	114	-		
PCB-146	4230	-	C	165	PCB-196	271	-	C	203
PCB-147	463	-			PCB-197	17.1	-	J	
PCB-148	ND	8.06			PCB-198	18.8	-	J	
PCB-149	-	-	C139	139	PCB-199	214	-		
PCB-150	88.5	-			PCB-200	30.3	-	J	

000023 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-006-SA
Client ID: HC20131102-W-2C
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013

Page 3 of 3

Compound	Conc	DL	Qual	Coeluters
PCB-201	31.7	-	J	
PCB-202	26.2	-	J	
PCB-203	-	-	C196	196
PCB-204	ND	3.68		
PCB-205	20.9	-	J	
PCB-206	26.4	-	J	
PCB-207	ND	8.51		
PCB-208	ND	6.25		
PCB-209	ND	6.78		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	101	5.00 - 145	
13C-PCB-3	98.8	5.00 - 145	
13C-PCB-4	100	5.00 - 145	
13C-PCB-15	101	5.00 - 145	
13C-PCB-19	100	5.00 - 145	
13C-PCB-37	103	5.00 - 145	
13C-PCB-54	103	5.00 - 145	
13C-PCB-77	103	10.0 - 145	
13C-PCB-81	102	10.0 - 145	
13C-PCB-104	102	10.0 - 145	
13C-PCB-105	104	10.0 - 145	
13C-PCB-114	94.3	10.0 - 145	
13C-PCB-118	94.7	10.0 - 145	
13C-PCB-123	93.4	10.0 - 145	
13C-PCB-126	107	10.0 - 145	
13C-PCB-155	101	10.0 - 145	
13C-PCB-156	108	10.0 - 145	
13C-PCB-157	108	10.0 - 145	
13C-PCB-167	103	10.0 - 145	
13C-PCB-169	109	10.0 - 145	
13C-PCB-188	97.0	10.0 - 145	
13C-PCB-189	111	10.0 - 145	
13C-PCB-202	97.0	10.0 - 145	
13C-PCB-205	99.5	10.0 - 145	
13C-PCB-206	97.2	10.0 - 145	
13C-PCB-208	97.9	10.0 - 145	
13C-PCB-209	94.1	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	109	5.00 - 145	
13C-PCB-111	102	10.0 - 145	
13C-PCB-178	101	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/18/2013

Reviewed By: 
Date: 11/18/2013

000024 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-007-SA
Client ID: HC20131102-W-3A
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013
Total Conc: 184000

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	208	-			PCB-51	246	-		
PCB-2	86.0	-			PCB-52	8590	-	C	69
PCB-3	354	-			PCB-53	798	-		
PCB-4	309	-			PCB-54	10.6	-	J	
PCB-5	21.8	-	J		PCB-55	84.5	-		
PCB-6	280	-			PCB-56	1900	-	C	60
PCB-7	81.4	-			PCB-57	22.8	-	J	
PCB-8	1410	-			PCB-58	ND	7.37		
PCB-9	86.4	-			PCB-59	-	-	C042	42
PCB-10	ND	7.86			PCB-60	-	-	C056	56
PCB-11	2160	-	B		PCB-61	6800	-	C	70
PCB-12	58.4	-			PCB-62	ND	7.75		
PCB-13	262	-			PCB-63	152	-		
PCB-14	ND	8.40			PCB-64	-	-	C041	41/71/72
PCB-15	746	-			PCB-65	ND	6.48		
PCB-16	844	-			PCB-66	3380	-	C	76
PCB-17	1020	-			PCB-67	105	-		
PCB-18	3300	-			PCB-68	38.5	-	J	
PCB-19	157	-			PCB-69	-	-	C052	52
PCB-20	2670	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	1440	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	8.02			PCB-73	24.2	-	J	
PCB-24	20.8	-	J		PCB-74	1540	-		
PCB-25	234	-			PCB-75	-	-	C048	48
PCB-26	652	-			PCB-76	-	-	C066	66
PCB-27	182	-			PCB-77	185	-		
PCB-28	3480	-			PCB-78	22.6	-	J	
PCB-29	26.3	-	J		PCB-79	83.4	-		
PCB-30	ND	1.99			PCB-80	ND	5.62		
PCB-31	3870	-			PCB-81	127	-		
PCB-32	988	-			PCB-82	777	-		
PCB-33	-	-	C020	20/21	PCB-83	342	-	C	112
PCB-34	10.8	-	J		PCB-84	4250	-	C	92
PCB-35	89.9	-			PCB-85	978	-	C	116
PCB-36	27.4	-	J		PCB-86	22.3	-	J	
PCB-37	584	-			PCB-87	3080	-	C	117/125
PCB-38	15.8	-	J		PCB-88	1340	-	C	91
PCB-39	21.0	-	J		PCB-89	103	-		
PCB-40	796	-			PCB-90	11500	-	C	101
PCB-41	4060	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	1320	-	C	59	PCB-92	-	-	C084	84
PCB-43	3430	-	C	49	PCB-93	ND	5.82		
PCB-44	4510	-			PCB-94	60.9	-		
PCB-45	747	-			PCB-95	11300	-		
PCB-46	345	-			PCB-96	96.0	-		
PCB-47	1040	-			PCB-97	2110	-		
PCB-48	932	-	C	75	PCB-98	ND	4.27	C	102
PCB-49	-	-	C043	43	PCB-99	3050	-		
PCB-50	ND	8.78			PCB-100	31.5	-	J	

000025 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-007-SA
Client ID: HC20131102-W-3A
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	3880	-		
PCB-102	-	-	C098	98	PCB-152	12.4	-	J	
PCB-103	59.3	-			PCB-153	8220	-		
PCB-104	ND	2.85			PCB-154	44.7	-		
PCB-105	1330	-			PCB-155	17.4	-	J	
PCB-106	3930	-	C	118	PCB-156	330	-		
PCB-107	267	-	C	108	PCB-157	74.8	-		
PCB-108	-	-	C107	107	PCB-158	811	-	C	160
PCB-109	ND	9.59			PCB-159	82.4	-		
PCB-110	6030	-			PCB-160	-	-	C158	158
PCB-111	131	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	8.92			PCB-163	-	-	C138	138/164
PCB-114	109	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	15.3	-	J	
PCB-117	-	-	C087	87/125	PCB-167	176	-		
PCB-118	-	-	C106	106	PCB-168	ND	5.68		
PCB-119	97.6	-			PCB-169	ND	3.81		
PCB-120	42.3	-			PCB-170	1020	-		
PCB-121	ND	4.18			PCB-171	587	-		
PCB-122	43.6	-			PCB-172	229	-		
PCB-123	70.9	-			PCB-173	62.9	-		
PCB-124	257	-			PCB-174	2380	-		
PCB-125	-	-	C087	87/117	PCB-175	140	-		
PCB-126	39.8	-	J		PCB-176	665	-		
PCB-127	ND	5.20			PCB-177	1410	-		
PCB-128	796	-	C	162	PCB-178	648	-		
PCB-129	266	-			PCB-179	2240	-		
PCB-130	392	-			PCB-180	2430	-		
PCB-131	243	-	C	133	PCB-181	10.8	-	J	
PCB-132	3100	-	C	161	PCB-182	2970	-	C	187
PCB-133	-	-	C131	131	PCB-183	1390	-		
PCB-134	603	-	C	143	PCB-184	14.3	-	J	
PCB-135	1990	-			PCB-185	399	-		
PCB-136	2950	-			PCB-186	ND	3.33		
PCB-137	190	-			PCB-187	-	-	C182	182
PCB-138	6510	-	C	163/164	PCB-188	ND	2.68		
PCB-139	11700	-	C	149	PCB-189	19.6	-	J	
PCB-140	24.2	-	J		PCB-190	222	-		
PCB-141	2330	-			PCB-191	48.0	-		
PCB-142	ND	7.94			PCB-192	ND	3.68		
PCB-143	-	-	C134	134	PCB-193	124	-		
PCB-144	723	-			PCB-194	164	-		
PCB-145	ND	4.98			PCB-195	132	-		
PCB-146	1130	-	C	165	PCB-196	395	-	C	203
PCB-147	107	-			PCB-197	42.9	-		
PCB-148	ND	5.64			PCB-198	24.9	-	J	
PCB-149	-	-	C139	139	PCB-199	415	-		
PCB-150	13.5	-	J		PCB-200	127	-		

000026 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-007-SA
Client ID: HC20131102-W-3A
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013

Page 3 of 3

Compound	Conc	DL	Qual	Coeluters
PCB-201	132	-		
PCB-202	150	-		
PCB-203	-	-	C196	196
PCB-204	ND	3.27		
PCB-205	11.4	-	J	
PCB-206	27.8	-	J	
PCB-207	10.1	-	J	
PCB-208	15.3	-	J	
PCB-209	ND	6.53		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	90.1	5.00 - 145	
13C-PCB-3	90.3	5.00 - 145	
13C-PCB-4	90.6	5.00 - 145	
13C-PCB-15	96.0	5.00 - 145	
13C-PCB-19	91.1	5.00 - 145	
13C-PCB-37	101	5.00 - 145	
13C-PCB-54	88.3	5.00 - 145	
13C-PCB-77	101	10.0 - 145	
13C-PCB-81	102	10.0 - 145	
13C-PCB-104	93.2	10.0 - 145	
13C-PCB-105	103	10.0 - 145	
13C-PCB-114	97.8	10.0 - 145	
13C-PCB-118	93.5	10.0 - 145	
13C-PCB-123	96.2	10.0 - 145	
13C-PCB-126	109	10.0 - 145	
13C-PCB-155	91.2	10.0 - 145	
13C-PCB-156	104	10.0 - 145	
13C-PCB-157	104	10.0 - 145	
13C-PCB-167	99.8	10.0 - 145	
13C-PCB-169	107	10.0 - 145	
13C-PCB-188	89.7	10.0 - 145	
13C-PCB-189	100	10.0 - 145	
13C-PCB-202	91.2	10.0 - 145	
13C-PCB-205	103	10.0 - 145	
13C-PCB-206	99.7	10.0 - 145	
13C-PCB-208	98.2	10.0 - 145	
13C-PCB-209	92.1	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	105	5.00 - 145	
13C-PCB-111	97.8	10.0 - 145	
13C-PCB-178	95.3	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/18/2013

Reviewed By: 
Date: 11/18/2013

000027 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-008-SA
Client ID: HC20131102-W-3B
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013
Total Conc: 970000

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	126	-			PCB-51	146	-		
PCB-2	46.0	-			PCB-52	6440	-	C	69
PCB-3	163	-			PCB-53	455	-		
PCB-4	154	-			PCB-54	ND	4.78		
PCB-5	37.4	-	J		PCB-55	165	-		
PCB-6	148	-			PCB-56	3890	-	C	60
PCB-7	54.1	-			PCB-57	25.4	-	J	
PCB-8	713	-			PCB-58	11.1	-	J	
PCB-9	53.8	-			PCB-59	-	-	C042	42
PCB-10	ND	8.95			PCB-60	-	-	C056	56
PCB-11	1300	-	B		PCB-61	10800	-	C	70
PCB-12	26.6	-	J		PCB-62	ND	7.07		
PCB-13	69.6	-			PCB-63	228	-		
PCB-14	ND	9.56			PCB-64	-	-	C041	41/71/72
PCB-15	276	-			PCB-65	ND	5.91		
PCB-16	560	-			PCB-66	5940	-	C	76
PCB-17	572	-			PCB-67	155	-		
PCB-18	1700	-			PCB-68	44.7	-		
PCB-19	80.9	-			PCB-69	-	-	C052	52
PCB-20	1830	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	1040	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	8.97			PCB-73	ND	6.32		
PCB-24	21.4	-	J		PCB-74	2420	-		
PCB-25	151	-			PCB-75	-	-	C048	48
PCB-26	374	-			PCB-76	-	-	C066	66
PCB-27	94.5	-			PCB-77	745	-		
PCB-28	2310	-			PCB-78	52.0	-		
PCB-29	17.8	-	J		PCB-79	121	-		
PCB-30	ND	2.61			PCB-80	ND	5.13		
PCB-31	2450	-			PCB-81	370	-		
PCB-32	426	-			PCB-82	2340	-		
PCB-33	-	-	C020	20/21	PCB-83	773	-	C	112
PCB-34	ND	7.70			PCB-84	8120	-	C	92
PCB-35	82.1	-			PCB-85	2730	-	C	116
PCB-36	17.7	-	J		PCB-86	43.8	-		
PCB-37	651	-			PCB-87	9200	-	C	117/125
PCB-38	15.3	-	J		PCB-88	1950	-	C	91
PCB-39	ND	7.61			PCB-89	155	-		
PCB-40	854	-			PCB-90	31300	-	C	101
PCB-41	4220	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	1220	-	C	59	PCB-92	-	-	C084	84
PCB-43	2580	-	C	49	PCB-93	ND	9.07		
PCB-44	3970	-			PCB-94	69.2	-		
PCB-45	449	-			PCB-95	18600	-		
PCB-46	209	-			PCB-96	84.1	-		
PCB-47	829	-			PCB-97	5660	-		
PCB-48	783	-	C	75	PCB-98	ND	6.65	C	102
PCB-49	-	-	C043	43	PCB-99	6810	-		
PCB-50	ND	8.03			PCB-100	29.9	-	J	

000028 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-008-SA
Client ID: HC20131102-W-3B
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	28200	-		
PCB-102	-	-	C098	98	PCB-152	32.1	-	J	
PCB-103	70.1	-			PCB-153	90500	-		
PCB-104	ND	4.44			PCB-154	161	-		
PCB-105	7750	-			PCB-155	19.3	-	J	
PCB-106	23000	-	C	118	PCB-156	4970	-		
PCB-107	1120	-	C	108	PCB-157	362	-		
PCB-108	-	-	C107	107	PCB-158	9740	-	C	160
PCB-109	ND	9.72			PCB-159	1240	-		
PCB-110	21900	-			PCB-160	-	-	C158	158
PCB-111	372	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	9.04			PCB-163	-	-	C138	138/164
PCB-114	616	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	101	-		
PCB-117	-	-	C087	87/125	PCB-167	1920	-		
PCB-118	-	-	C106	106	PCB-168	ND	7.08		
PCB-119	210	-			PCB-169	ND	5.42		
PCB-120	128	-			PCB-170	26700	-		
PCB-121	ND	6.51			PCB-171	10400	-		
PCB-122	242	-			PCB-172	4480	-		
PCB-123	293	-			PCB-173	1040	-		
PCB-124	1420	-			PCB-174	41800	-		
PCB-125	-	-	C087	87/117	PCB-175	1880	-		
PCB-126	149	-			PCB-176	7270	-		
PCB-127	ND	8.96			PCB-177	25500	-		
PCB-128	7450	-	C	162	PCB-178	8640	-		
PCB-129	2240	-			PCB-179	23300	-		
PCB-130	3420	-			PCB-180	57700	-		
PCB-131	1770	-	C	133	PCB-181	132	-		
PCB-132	28100	-	C	161	PCB-182	45600	-	C	187
PCB-133	-	-	C131	131	PCB-183	21500	-		
PCB-134	4210	-	C	143	PCB-184	33.9	-	J	
PCB-135	13200	-			PCB-185	5970	-		
PCB-136	12600	-			PCB-186	ND	8.05		
PCB-137	1190	-			PCB-187	-	-	C182	182
PCB-138	80700	-	C	163/164	PCB-188	14.4	-	J	
PCB-139	92000	-	C	149	PCB-189	441	-		
PCB-140	98.3	-			PCB-190	5610	-		
PCB-141	28400	-			PCB-191	1040	-		
PCB-142	ND	9.90			PCB-192	ND	8.91		
PCB-143	-	-	C134	134	PCB-193	2830	-		
PCB-144	5760	-			PCB-194	6110	-		
PCB-145	15.5	-	J		PCB-195	4220	-		
PCB-146	10900	-	C	165	PCB-196	10400	-	C	203
PCB-147	487	-			PCB-197	648	-		
PCB-148	ND	6.92			PCB-198	575	-		
PCB-149	-	-	C139	139	PCB-199	10500	-		
PCB-150	34.9	-	J		PCB-200	2250	-		

000029 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-008-SA
Client ID: HC20131102-W-3B
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013

Page 3 of 3

Compound	Conc	DL	Qual	Coeluters
PCB-201	2180	-		
PCB-202	2350	-		
PCB-203	-	-	C196	196
PCB-204	ND	3.72		
PCB-205	230	-		
PCB-206	657	-		
PCB-207	211	-		
PCB-208	216	-		
PCB-209	34.2	-	J	

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	88.8	5.00 - 145	
13C-PCB-3	91.0	5.00 - 145	
13C-PCB-4	91.1	5.00 - 145	
13C-PCB-15	94.1	5.00 - 145	
13C-PCB-19	89.9	5.00 - 145	
13C-PCB-37	101	5.00 - 145	
13C-PCB-54	86.7	5.00 - 145	
13C-PCB-77	99.1	10.0 - 145	
13C-PCB-81	99.6	10.0 - 145	
13C-PCB-104	91.8	10.0 - 145	
13C-PCB-105	99.5	10.0 - 145	
13C-PCB-114	96.5	10.0 - 145	
13C-PCB-118	97.4	10.0 - 145	
13C-PCB-123	97.0	10.0 - 145	
13C-PCB-126	105	10.0 - 145	
13C-PCB-155	88.4	10.0 - 145	
13C-PCB-156	100	10.0 - 145	
13C-PCB-157	98.9	10.0 - 145	
13C-PCB-167	98.9	10.0 - 145	
13C-PCB-169	104	10.0 - 145	
13C-PCB-188	87.2	10.0 - 145	
13C-PCB-189	99.6	10.0 - 145	
13C-PCB-202	88.0	10.0 - 145	
13C-PCB-205	90.1	10.0 - 145	
13C-PCB-206	90.1	10.0 - 145	
13C-PCB-208	86.8	10.0 - 145	
13C-PCB-209	83.8	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	113	5.00 - 145	
13C-PCB-111	98.2	10.0 - 145	
13C-PCB-178	94.8	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/18/2013

Reviewed By: 
Date: 11/18/2013

000030 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-009-SA
Client ID: HC20131102-W-3C
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013
Total Conc: 66000

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	128	-			PCB-51	136	-		
PCB-2	57.1	-			PCB-52	2440	-	C	69
PCB-3	175	-			PCB-53	377	-		
PCB-4	142	-			PCB-54	14.5	-	J	
PCB-5	17.5	-	J		PCB-55	45.4	-		
PCB-6	63.3	-			PCB-56	360	-	C	60
PCB-7	14.5	-	J		PCB-57	16.0	-	J	
PCB-8	246	-			PCB-58	16.0	-	J	
PCB-9	27.8	-	J		PCB-59	-	-	C042	42
PCB-10	ND	6.39			PCB-60	-	-	C056	56
PCB-11	615	-	B		PCB-61	2670	-	C	70
PCB-12	50.9	-			PCB-62	ND	5.25		
PCB-13	655	-			PCB-63	25.2	-	J	
PCB-14	ND	6.82			PCB-64	-	-	C041	41/71/72
PCB-15	999	-			PCB-65	ND	4.39		
PCB-16	131	-			PCB-66	635	-	C	76
PCB-17	178	-			PCB-67	50.2	-		
PCB-18	539	-			PCB-68	26.2	-	J	
PCB-19	44.9	-			PCB-69	-	-	C052	52
PCB-20	319	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	165	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	7.53			PCB-73	10.1	-	J	
PCB-24	ND	8.20			PCB-74	208	-		
PCB-25	74.9	-			PCB-75	-	-	C048	48
PCB-26	376	-			PCB-76	-	-	C066	66
PCB-27	36.7	-	J		PCB-77	280	-		
PCB-28	396	-			PCB-78	19.9	-	J	
PCB-29	ND	6.91			PCB-79	146	-		
PCB-30	ND	7.19			PCB-80	ND	3.81		
PCB-31	499	-			PCB-81	78.5	-		
PCB-32	124	-			PCB-82	629	-		
PCB-33	-	-	C020	20/21	PCB-83	238	-	C	112
PCB-34	ND	6.48			PCB-84	2020	-	C	92
PCB-35	106	-			PCB-85	633	-	C	116
PCB-36	66.7	-			PCB-86	ND	6.21		
PCB-37	163	-			PCB-87	1650	-	C	117/125
PCB-38	ND	6.17			PCB-88	815	-	C	91
PCB-39	88.4	-			PCB-89	106	-		
PCB-40	145	-			PCB-90	4690	-	C	101
PCB-41	786	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	348	-	C	59	PCB-92	-	-	C084	84
PCB-43	1070	-	C	49	PCB-93	ND	8.94		
PCB-44	1050	-			PCB-94	52.3	-		
PCB-45	115	-			PCB-95	3730	-		
PCB-46	123	-			PCB-96	83.4	-		
PCB-47	235	-			PCB-97	1170	-		
PCB-48	132	-	C	75	PCB-98	ND	6.55	C	102
PCB-49	-	-	C043	43	PCB-99	1640	-		
PCB-50	ND	5.98			PCB-100	39.8	-	J	

000031 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-009-SA
Client ID: HC20131102-W-3C
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	437	-		
PCB-102	-	-	C098	98	PCB-152	ND	6.41		
PCB-103	56.4	-			PCB-153	2770	-		
PCB-104	ND	4.38			PCB-154	51.5	-		
PCB-105	1390	-			PCB-155	ND	4.52		
PCB-106	2660	-	C	118	PCB-156	449	-		
PCB-107	241	-	C	108	PCB-157	226	-		
PCB-108	-	-	C107	107	PCB-158	558	-	C	160
PCB-109	ND	5.81			PCB-159	11.2	-	J	
PCB-110	3340	-			PCB-160	-	-	C158	158
PCB-111	46.8	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	5.40			PCB-163	-	-	C138	138/164
PCB-114	58.8	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	22.7	-	J	
PCB-117	-	-	C087	87/125	PCB-167	335	-		
PCB-118	-	-	C106	106	PCB-168	10.0	-	J	
PCB-119	89.4	-			PCB-169	ND	4.74		
PCB-120	41.3	-			PCB-170	804	-		
PCB-121	ND	6.42			PCB-171	174	-		
PCB-122	46.7	-			PCB-172	106	-		
PCB-123	64.9	-			PCB-173	ND	9.66		
PCB-124	199	-			PCB-174	376	-		
PCB-125	-	-	C087	87/117	PCB-175	24.6	-	J	
PCB-126	124	-			PCB-176	58.1	-		
PCB-127	ND	6.84			PCB-177	258	-		
PCB-128	1350	-	C	162	PCB-178	70.3	-		
PCB-129	301	-			PCB-179	131	-		
PCB-130	436	-			PCB-180	986	-		
PCB-131	131	-	C	133	PCB-181	14.7	-	J	
PCB-132	1580	-	C	161	PCB-182	339	-	C	187
PCB-133	-	-	C131	131	PCB-183	216	-		
PCB-134	200	-	C	143	PCB-184	ND	5.94		
PCB-135	504	-			PCB-185	37.2	-	J	
PCB-136	558	-			PCB-186	ND	6.70		
PCB-137	244	-			PCB-187	-	-	C182	182
PCB-138	3760	-	C	163/164	PCB-188	ND	5.23		
PCB-139	2480	-	C	149	PCB-189	28.0	-	J	
PCB-140	33.4	-	J		PCB-190	147	-		
PCB-141	613	-			PCB-191	33.5	-	J	
PCB-142	ND	9.67			PCB-192	ND	7.42		
PCB-143	-	-	C134	134	PCB-193	48.0	-		
PCB-144	133	-			PCB-194	103	-		
PCB-145	ND	6.83			PCB-195	39.9	-	J	
PCB-146	572	-	C	165	PCB-196	92.9	-	C	203
PCB-147	70.9	-			PCB-197	ND	3.81		
PCB-148	ND	7.72			PCB-198	ND	5.31		
PCB-149	-	-	C139	139	PCB-199	81.3	-		
PCB-150	15.1	-	J		PCB-200	11.6	-	J	

000032 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-009-SA
Client ID: HC20131102-W-3C
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013

Page 3 of 3

Compound	Conc	DL	Qual	Coeluters
PCB-201	12.6	-	J	
PCB-202	13.9	-	J	
PCB-203	-	-	C196	196
PCB-204	ND	3.64		
PCB-205	ND	6.22		
PCB-206	ND	9.95		
PCB-207	ND	9.79		
PCB-208	ND	7.35		
PCB-209	ND	4.21		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	89.0	5.00 - 145	
13C-PCB-3	90.9	5.00 - 145	
13C-PCB-4	93.7	5.00 - 145	
13C-PCB-15	96.2	5.00 - 145	
13C-PCB-19	91.4	5.00 - 145	
13C-PCB-37	102	5.00 - 145	
13C-PCB-54	99.6	5.00 - 145	
13C-PCB-77	106	10.0 - 145	
13C-PCB-81	107	10.0 - 145	
13C-PCB-104	97.6	10.0 - 145	
13C-PCB-105	102	10.0 - 145	
13C-PCB-114	102	10.0 - 145	
13C-PCB-118	97.4	10.0 - 145	
13C-PCB-123	98.2	10.0 - 145	
13C-PCB-126	111	10.0 - 145	
13C-PCB-155	97.1	10.0 - 145	
13C-PCB-156	105	10.0 - 145	
13C-PCB-157	103	10.0 - 145	
13C-PCB-167	104	10.0 - 145	
13C-PCB-169	107	10.0 - 145	
13C-PCB-188	92.3	10.0 - 145	
13C-PCB-189	105	10.0 - 145	
13C-PCB-202	92.6	10.0 - 145	
13C-PCB-205	100	10.0 - 145	
13C-PCB-206	99.8	10.0 - 145	
13C-PCB-208	97.2	10.0 - 145	
13C-PCB-209	92.8	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	111	5.00 - 145	
13C-PCB-111	104	10.0 - 145	
13C-PCB-178	98.5	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/18/2013

Reviewed By: 
Date: 11/18/2013

000033 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-010-SA
Client ID: HC20131102-W-4A
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013
Total Conc: 705000

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	54.8	-			PCB-51	169	-		
PCB-2	27.4	-	J		PCB-52	8630	-	C	69
PCB-3	82.4	-			PCB-53	462	-		
PCB-4	94.9	-			PCB-54	ND	5.20		
PCB-5	ND	7.69			PCB-55	268	-		
PCB-6	90.4	-			PCB-56	4680	-	C	60
PCB-7	19.5	-	J		PCB-57	30.1	-	J	
PCB-8	419	-			PCB-58	20.4	-	J	
PCB-9	31.9	-	J		PCB-59	-	-	C042	42
PCB-10	ND	6.50			PCB-60	-	-	C056	56
PCB-11	1690	-	B		PCB-61	21900	-	C	70
PCB-12	48.3	-			PCB-62	ND	7.69		
PCB-13	216	-			PCB-63	225	-		
PCB-14	ND	6.94			PCB-64	-	-	C041	41/71/72
PCB-15	527	-			PCB-65	ND	6.42		
PCB-16	305	-			PCB-66	7260	-	C	76
PCB-17	318	-			PCB-67	157	-		
PCB-18	967	-			PCB-68	83.5	-		
PCB-19	53.3	-			PCB-69	-	-	C052	52
PCB-20	1160	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	692	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	9.86			PCB-73	ND	6.86		
PCB-24	10.7	-	J		PCB-74	2790	-		
PCB-25	111	-			PCB-75	-	-	C048	48
PCB-26	346	-			PCB-76	-	-	C066	66
PCB-27	57.8	-			PCB-77	3420	-		
PCB-28	1450	-			PCB-78	172	-		
PCB-29	ND	9.04			PCB-79	440	-		
PCB-30	ND	4.10			PCB-80	ND	5.57		
PCB-31	1570	-			PCB-81	1230	-		
PCB-32	282	-			PCB-82	8840	-		
PCB-33	-	-	C020	20/21	PCB-83	2550	-	C	112
PCB-34	ND	8.48			PCB-84	24000	-	C	92
PCB-35	211	-			PCB-85	8910	-	C	116
PCB-36	39.0	-	J		PCB-86	47.4	-		
PCB-37	715	-			PCB-87	28400	-	C	117/125
PCB-38	12.8	-	J		PCB-88	5340	-	C	91
PCB-39	42.8	-			PCB-89	383	-		
PCB-40	848	-			PCB-90	63100	-	C	101
PCB-41	3960	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	1030	-	C	59	PCB-92	-	-	C084	84
PCB-43	2580	-	C	49	PCB-93	ND	6.92		
PCB-44	5280	-			PCB-94	139	-		
PCB-45	337	-			PCB-95	38800	-		
PCB-46	209	-			PCB-96	169	-		
PCB-47	689	-			PCB-97	19200	-		
PCB-48	467	-	C	75	PCB-98	ND	5.07	C	102
PCB-49	-	-	C043	43	PCB-99	20800	-		
PCB-50	ND	8.73			PCB-100	60.7	-		

000034 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-010-SA
Client ID: HC20131102-W-4A
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	10100	-		
PCB-102	-	-	C098	98	PCB-152	66.8	-		
PCB-103	130	-			PCB-153	38000	-		
PCB-104	ND	3.39			PCB-154	409	-		
PCB-105	19700	-			PCB-155	20.4	-	J	
PCB-106	52900	-	C	118	PCB-156	2160	-		
PCB-107	3450	-	C	108	PCB-157	708	-		
PCB-108	-	-	C107	107	PCB-158	5860	-	C	160
PCB-109	ND	9.53			PCB-159	146	-		
PCB-110	63200	-			PCB-160	-	-	C158	158
PCB-111	950	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	8.87			PCB-163	-	-	C138	138/164
PCB-114	1270	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	208	-		
PCB-117	-	-	C087	87/125	PCB-167	1450	-		
PCB-118	-	-	C106	106	PCB-168	63.3	-		
PCB-119	589	-			PCB-169	ND	9.44		
PCB-120	133	-			PCB-170	2610	-		
PCB-121	ND	4.97			PCB-171	1370	-		
PCB-122	627	-			PCB-172	537	-		
PCB-123	857	-			PCB-173	153	-		
PCB-124	2830	-			PCB-174	4400	-		
PCB-125	-	-	C087	87/117	PCB-175	280	-		
PCB-126	519	-			PCB-176	1150	-		
PCB-127	ND	8.69			PCB-177	2680	-		
PCB-128	7350	-	C	162	PCB-178	1080	-		
PCB-129	2900	-			PCB-179	3280	-		
PCB-130	3650	-			PCB-180	5350	-		
PCB-131	1790	-	C	133	PCB-181	99.2	-		
PCB-132	19600	-	C	161	PCB-182	5030	-	C	187
PCB-133	-	-	C131	131	PCB-183	2700	-		
PCB-134	3870	-	C	143	PCB-184	35.2	-	J	
PCB-135	7980	-			PCB-185	629	-		
PCB-136	10300	-			PCB-186	ND	8.20		
PCB-137	3120	-			PCB-187	-	-	C182	182
PCB-138	39700	-	C	163/164	PCB-188	12.2	-	J	
PCB-139	44600	-	C	149	PCB-189	47.6	-		
PCB-140	260	-			PCB-190	533	-		
PCB-141	9200	-			PCB-191	124	-		
PCB-142	23.1	-	J		PCB-192	ND	9.09		
PCB-143	-	-	C134	134	PCB-193	251	-		
PCB-144	2540	-			PCB-194	219	-		
PCB-145	33.0	-	J		PCB-195	170	-		
PCB-146	5920	-	C	165	PCB-196	623	-	C	203
PCB-147	1220	-			PCB-197	61.1	-		
PCB-148	ND	8.55			PCB-198	35.3	-	J	
PCB-149	-	-	C139	139	PCB-199	566	-		
PCB-150	75.9	-			PCB-200	169	-		

000035 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-010-SA
Client ID: HC20131102-W-4A
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013

Page 3 of 3

Compound	Conc	DL	Qual	Coeluters
PCB-201	181	-		
PCB-202	191	-		
PCB-203	-	-	C196	196
PCB-204	ND	4.34		
PCB-205	14.0	-	J	
PCB-206	33.9	-	J	
PCB-207	18.9	-	J	
PCB-208	20.6	-	J	
PCB-209	16.9	-	J	

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	81.9	5.00 - 145	
13C-PCB-3	84.4	5.00 - 145	
13C-PCB-4	84.1	5.00 - 145	
13C-PCB-15	84.9	5.00 - 145	
13C-PCB-19	83.7	5.00 - 145	
13C-PCB-37	87.4	5.00 - 145	
13C-PCB-54	83.5	5.00 - 145	
13C-PCB-77	90.5	10.0 - 145	
13C-PCB-81	90.6	10.0 - 145	
13C-PCB-104	85.0	10.0 - 145	
13C-PCB-105	88.2	10.0 - 145	
13C-PCB-114	88.2	10.0 - 145	
13C-PCB-118	81.7	10.0 - 145	
13C-PCB-123	81.9	10.0 - 145	
13C-PCB-126	92.7	10.0 - 145	
13C-PCB-155	80.8	10.0 - 145	
13C-PCB-156	90.0	10.0 - 145	
13C-PCB-157	89.3	10.0 - 145	
13C-PCB-167	88.4	10.0 - 145	
13C-PCB-169	90.6	10.0 - 145	
13C-PCB-188	77.7	10.0 - 145	
13C-PCB-189	89.1	10.0 - 145	
13C-PCB-202	77.3	10.0 - 145	
13C-PCB-205	88.9	10.0 - 145	
13C-PCB-206	86.2	10.0 - 145	
13C-PCB-208	86.6	10.0 - 145	
13C-PCB-209	79.5	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	100	5.00 - 145	
13C-PCB-111	88.9	10.0 - 145	
13C-PCB-178	84.6	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/18/2013

Reviewed By: 
Date: 11/18/2013

000036 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-011-SA
Client ID: HC20131102-W-4B
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013
Total Conc: 14700000

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	27.8	-	J		PCB-51	126	-		
PCB-2	17.6	-	J		PCB-52	80600	-	C	69
PCB-3	25.7	-	J		PCB-53	757	-		
PCB-4	44.2	-			PCB-54	ND	2.26		
PCB-5	ND	9.87			PCB-55	3820	-		
PCB-6	37.5	-	J		PCB-56	51800	-	C	60
PCB-7	10.2	-	J		PCB-57	174	-		
PCB-8	177	-			PCB-58	67.8	-		
PCB-9	16.7	-	J		PCB-59	-	-	C042	42
PCB-10	ND	8.34			PCB-60	-	-	C056	56
PCB-11	869	-	B		PCB-61	307000	-	C	70
PCB-12	ND	8.79			PCB-62	ND	3.35		
PCB-13	ND	9.90			PCB-63	2280	-		
PCB-14	ND	8.90			PCB-64	-	-	C041	41/71/72
PCB-15	66.1	-			PCB-65	ND	2.80		
PCB-16	92.5	-			PCB-66	90800	-	C	76
PCB-17	123	-			PCB-67	1030	-		
PCB-18	378	-			PCB-68	80.0	-		
PCB-19	24.9	-	J		PCB-69	-	-	C052	52
PCB-20	882	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	556	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	8.85			PCB-73	161	-		
PCB-24	ND	5.09			PCB-74	37500	-		
PCB-25	65.6	-			PCB-75	-	-	C048	48
PCB-26	196	-			PCB-76	-	-	C066	66
PCB-27	23.5	-	J		PCB-77	20700	-		
PCB-28	838	-			PCB-78	3270	-		
PCB-29	ND	8.12			PCB-79	8690	-		
PCB-30	ND	4.47			PCB-80	ND	2.43		
PCB-31	1130	-			PCB-81	24400	-		
PCB-32	ND	4.87			PCB-82	196000	-		
PCB-33	-	-	C020	20/21	PCB-83	54700	-	C	112
PCB-34	ND	7.63			PCB-84	440000	-	C	92
PCB-35	256	-			PCB-85	199000	-	C	116
PCB-36	ND	7.78			PCB-86	1680	-		
PCB-37	1400	-			PCB-87	631000	-	C	117/125
PCB-38	44.3	-			PCB-88	93700	-	C	91
PCB-39	ND	8.05			PCB-89	5700	-		
PCB-40	5460	-			PCB-90	1240000	-	C	101
PCB-41	29400	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	4420	-	C	59	PCB-92	-	-	C084	84
PCB-43	17000	-	C	49	PCB-93	ND	7.71		
PCB-44	47400	-			PCB-94	1790	-		
PCB-45	462	-			PCB-95	649000	-		
PCB-46	316	-			PCB-96	1300	-		
PCB-47	2200	-			PCB-97	426000	-		
PCB-48	1560	-	C	75	PCB-98	ND	5.65	C	102
PCB-49	-	-	C043	43	PCB-99	466000	-		
PCB-50	ND	3.80			PCB-100	630	-		

EPA Modified Method 1668 PCBs



FAL ID: 8155-011-SA
Client ID: HC20131102-W-4B
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	190000	-		
PCB-102	-	-	C098	98	PCB-152	1450	-		
PCB-103	1510	-			PCB-153	838000	-		
PCB-104	ND	3.77			PCB-154	9960	-		
PCB-105	559000	-			PCB-155	ND	9.87		
PCB-106	1530000	-	C	118	PCB-156	69400	-		
PCB-107	90300	-	C	108	PCB-157	18400	-		
PCB-108	-	-	C107	107	PCB-158	157000	-	C	160
PCB-109	112	-			PCB-159	1520	-		
PCB-110	1370000	-			PCB-160	-	-	C158	158
PCB-111	30400	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	9.80			PCB-163	-	-	C138	138/164
PCB-114	38100	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	6330	-		
PCB-117	-	-	C087	87/125	PCB-167	37200	-		
PCB-118	-	-	C106	106	PCB-168	1560	-		
PCB-119	13800	-			PCB-169	68.4	-		
PCB-120	2350	-			PCB-170	43800	-		
PCB-121	ND	5.53			PCB-171	22900	-		
PCB-122	16600	-			PCB-172	7610	-		
PCB-123	20800	-			PCB-173	2600	-		
PCB-124	79700	-			PCB-174	59600	-		
PCB-125	-	-	C087	87/117	PCB-175	3700	-		
PCB-126	7580	-			PCB-176	15700	-		
PCB-127	ND	9.78			PCB-177	38300	-		
PCB-128	200000	-	C	162	PCB-178	12800	-		
PCB-129	81000	-			PCB-179	39700	-		
PCB-130	86000	-			PCB-180	76300	-		
PCB-131	47000	-	C	133	PCB-181	2240	-		
PCB-132	520000	-	C	161	PCB-182	61100	-	C	187
PCB-133	-	-	C131	131	PCB-183	39400	-		
PCB-134	102000	-	C	143	PCB-184	199	-		
PCB-135	183000	-			PCB-185	6750	-		
PCB-136	205000	-			PCB-186	122	-		
PCB-137	106000	-			PCB-187	-	-	C182	182
PCB-138	988000	-	C	163/164	PCB-188	127	-		
PCB-139	985000	-	C	149	PCB-189	743	-		
PCB-140	6140	-			PCB-190	7910	-		
PCB-141	207000	-			PCB-191	1800	-		
PCB-142	460	-			PCB-192	ND	7.98		
PCB-143	-	-	C134	134	PCB-193	3130	-		
PCB-144	61700	-			PCB-194	3620	-		
PCB-145	687	-			PCB-195	2340	-		
PCB-146	135000	-	C	165	PCB-196	6480	-	C	203
PCB-147	35900	-			PCB-197	430	-		
PCB-148	101	-			PCB-198	371	-		
PCB-149	-	-	C139	139	PCB-199	5940	-		
PCB-150	1180	-			PCB-200	1350	-		

000038 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-011-SA
Client ID: HC20131102-W-4B
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013

Page 3 of 3

Compound	Conc	DL	Qual	Coeluters
PCB-201	1360	-		
PCB-202	1440	-		
PCB-203	-	-	C196	196
PCB-204	ND	4.32		
PCB-205	149	-		
PCB-206	408	-		
PCB-207	133	-		
PCB-208	132	-		
PCB-209	31.0	-	J	

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	89.5	5.00 - 145	
13C-PCB-3	91.8	5.00 - 145	
13C-PCB-4	93.0	5.00 - 145	
13C-PCB-15	97.8	5.00 - 145	
13C-PCB-19	92.3	5.00 - 145	
13C-PCB-37	99.2	5.00 - 145	
13C-PCB-54	94.4	5.00 - 145	
13C-PCB-77	105	10.0 - 145	
13C-PCB-81	104	10.0 - 145	
13C-PCB-104	95.5	10.0 - 145	
13C-PCB-105	102	10.0 - 145	
13C-PCB-114	99.0	10.0 - 145	
13C-PCB-118	95.0	10.0 - 145	
13C-PCB-123	96.0	10.0 - 145	
13C-PCB-126	108	10.0 - 145	
13C-PCB-155	91.5	10.0 - 145	
13C-PCB-156	103	10.0 - 145	
13C-PCB-157	103	10.0 - 145	
13C-PCB-167	98.8	10.0 - 145	
13C-PCB-169	103	10.0 - 145	
13C-PCB-188	88.7	10.0 - 145	
13C-PCB-189	101	10.0 - 145	
13C-PCB-202	87.6	10.0 - 145	
13C-PCB-205	96.0	10.0 - 145	
13C-PCB-206	93.9	10.0 - 145	
13C-PCB-208	89.6	10.0 - 145	
13C-PCB-209	86.3	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	114	5.00 - 145	
13C-PCB-111	108	10.0 - 145	
13C-PCB-178	97.6	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/18/2013

Reviewed By: 
Date: 11/18/2013

000039 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-012-SA
Client ID: HC20131102-W-4C
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013
Total Conc: 1000000

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	308	-			PCB-51	832	-		
PCB-2	252	-			PCB-52	15800	-	C	69
PCB-3	1930	-			PCB-53	2650	-		
PCB-4	267	-			PCB-54	63.5	-		
PCB-5	92.9	-			PCB-55	304	-		
PCB-6	242	-			PCB-56	997	-	C	60
PCB-7	56.0	-			PCB-57	79.9	-		
PCB-8	773	-			PCB-58	102	-		
PCB-9	41.8	-			PCB-59	-	-	C042	42
PCB-10	20.5	-	J		PCB-60	-	-	C056	56
PCB-11	1690	-	B		PCB-61	14600	-	C	70
PCB-12	312	-			PCB-62	ND	9.08		
PCB-13	8150	-			PCB-63	62.8	-		
PCB-14	ND	9.28			PCB-64	-	-	C041	41/71/72
PCB-15	13000	-			PCB-65	ND	7.58		
PCB-16	252	-			PCB-66	1990	-	C	76
PCB-17	486	-			PCB-67	285	-		
PCB-18	1760	-			PCB-68	141	-		
PCB-19	161	-			PCB-69	-	-	C052	52
PCB-20	612	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	210	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	5.02			PCB-73	63.1	-		
PCB-24	18.4	-	J		PCB-74	359	-		
PCB-25	515	-			PCB-75	-	-	C048	48
PCB-26	2890	-			PCB-76	-	-	C066	66
PCB-27	159	-			PCB-77	2590	-		
PCB-28	598	-			PCB-78	130	-		
PCB-29	ND	4.61			PCB-79	1150	-		
PCB-30	ND	2.24			PCB-80	54.0	-		
PCB-31	1340	-			PCB-81	471	-		
PCB-32	279	-			PCB-82	4410	-		
PCB-33	-	-	C020	20/21	PCB-83	1510	-	C	112
PCB-34	31.7	-	J		PCB-84	11400	-	C	92
PCB-35	629	-			PCB-85	3760	-	C	116
PCB-36	393	-			PCB-86	13.6	-	J	
PCB-37	1030	-			PCB-87	10100	-	C	117/125
PCB-38	26.5	-	J		PCB-88	3880	-	C	91
PCB-39	797	-			PCB-89	569	-		
PCB-40	575	-			PCB-90	27300	-	C	101
PCB-41	3620	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	1840	-	C	59	PCB-92	-	-	C084	84
PCB-43	7290	-	C	49	PCB-93	ND	9.83		
PCB-44	5160	-			PCB-94	279	-		
PCB-45	438	-			PCB-95	17100	-		
PCB-46	801	-			PCB-96	414	-		
PCB-47	1420	-			PCB-97	7010	-		
PCB-48	390	-	C	75	PCB-98	ND	7.20	C	102
PCB-49	-	-	C043	43	PCB-99	8020	-		
PCB-50	27.5	-	J		PCB-100	201	-		

000040 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-012-SA
Client ID: HC20131102-W-4C
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	3680	-		
PCB-102	-	-	C098	98	PCB-152	34.0	-	J	
PCB-103	315	-			PCB-153	49100	-		
PCB-104	ND	9.71			PCB-154	349	-		
PCB-105	22300	-			PCB-155	ND	3.48		
PCB-106	30700	-	C	118	PCB-156	55400	-		
PCB-107	3010	-	C	108	PCB-157	18000	-		
PCB-108	-	-	C107	107	PCB-158	16500	-	C	160
PCB-109	20.9	-	J		PCB-159	303	-		
PCB-110	23500	-			PCB-160	-	-	C158	158
PCB-111	269	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	7.90			PCB-163	-	-	C138	138/164
PCB-114	666	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	655	-		
PCB-117	-	-	C087	87/125	PCB-167	18700	-		
PCB-118	-	-	C106	106	PCB-168	115	-		
PCB-119	671	-			PCB-169	336	-		
PCB-120	373	-			PCB-170	85900	-		
PCB-121	ND	7.06			PCB-171	8690	-		
PCB-122	631	-			PCB-172	7280	-		
PCB-123	502	-			PCB-173	830	-		
PCB-124	2090	-			PCB-174	15500	-		
PCB-125	-	-	C087	87/117	PCB-175	352	-		
PCB-126	5160	-			PCB-176	571	-		
PCB-127	77.2	-			PCB-177	11900	-		
PCB-128	54600	-	C	162	PCB-178	1210	-		
PCB-129	9370	-			PCB-179	1100	-		
PCB-130	9340	-			PCB-180	79300	-		
PCB-131	1610	-	C	133	PCB-181	499	-		
PCB-132	20100	-	C	161	PCB-182	8220	-	C	187
PCB-133	-	-	C131	131	PCB-183	6380	-		
PCB-134	2300	-	C	143	PCB-184	ND	6.92		
PCB-135	4830	-			PCB-185	937	-		
PCB-136	4470	-			PCB-186	ND	7.81		
PCB-137	5940	-			PCB-187	-	-	C182	182
PCB-138	113000	-	C	163/164	PCB-188	ND	6.28		
PCB-139	26900	-	C	149	PCB-189	3600	-		
PCB-140	301	-			PCB-190	13800	-		
PCB-141	13000	-			PCB-191	2360	-		
PCB-142	ND	9.95			PCB-192	ND	8.65		
PCB-143	-	-	C134	134	PCB-193	3460	-		
PCB-144	1070	-			PCB-194	7240	-		
PCB-145	20.3	-	J		PCB-195	2770	-		
PCB-146	8380	-	C	165	PCB-196	5330	-	C	203
PCB-147	736	-			PCB-197	80.9	-		
PCB-148	ND	5.97			PCB-198	206	-		
PCB-149	-	-	C139	139	PCB-199	4250	-		
PCB-150	73.3	-			PCB-200	267	-		

000041 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-012-SA
Client ID: HC20131102-W-4C
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013

Page 3 of 3

Compound	Conc	DL	Qual	Coeluters
PCB-201	166	-		
PCB-202	115	-		
PCB-203	-	-	C196	196
PCB-204	ND	3.45		
PCB-205	294	-		
PCB-206	634	-		
PCB-207	77.3	-		
PCB-208	81.2	-		
PCB-209	42.2	-		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	91.9	5.00 - 145	
13C-PCB-3	93.7	5.00 - 145	
13C-PCB-4	93.6	5.00 - 145	
13C-PCB-15	98.3	5.00 - 145	
13C-PCB-19	93.7	5.00 - 145	
13C-PCB-37	101	5.00 - 145	
13C-PCB-54	93.6	5.00 - 145	
13C-PCB-77	109	10.0 - 145	
13C-PCB-81	109	10.0 - 145	
13C-PCB-104	99.5	10.0 - 145	
13C-PCB-105	105	10.0 - 145	
13C-PCB-114	102	10.0 - 145	
13C-PCB-118	102	10.0 - 145	
13C-PCB-123	97.6	10.0 - 145	
13C-PCB-126	111	10.0 - 145	
13C-PCB-155	98.0	10.0 - 145	
13C-PCB-156	108	10.0 - 145	
13C-PCB-157	106	10.0 - 145	
13C-PCB-167	104	10.0 - 145	
13C-PCB-169	108	10.0 - 145	
13C-PCB-188	92.9	10.0 - 145	
13C-PCB-189	106	10.0 - 145	
13C-PCB-202	94.1	10.0 - 145	
13C-PCB-205	98.8	10.0 - 145	
13C-PCB-206	97.3	10.0 - 145	
13C-PCB-208	97.8	10.0 - 145	
13C-PCB-209	88.9	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	110	5.00 - 145	
13C-PCB-111	106	10.0 - 145	
13C-PCB-178	99.0	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/18/2013

Reviewed By: 
Date: 11/18/2013

000042 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-013-SA
Client ID: HC20131102-W-5A
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013
Total Conc: 528000

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	59.9	-			PCB-51	180	-		
PCB-2	32.4	-	J		PCB-52	10900	-	C	69
PCB-3	149	-			PCB-53	595	-		
PCB-4	111	-			PCB-54	ND	7.67		
PCB-5	66.6	-			PCB-55	238	-		
PCB-6	104	-			PCB-56	3330	-	C	60
PCB-7	27.2	-	J		PCB-57	37.2	-	J	
PCB-8	422	-			PCB-58	23.0	-	J	
PCB-9	34.1	-	J		PCB-59	-	-	C042	42
PCB-10	ND	6.62			PCB-60	-	-	C056	56
PCB-11	2440	-	B		PCB-61	16300	-	C	70
PCB-12	38.6	-	J		PCB-62	ND	8.55		
PCB-13	676	-			PCB-63	196	-		
PCB-14	ND	7.06			PCB-64	-	-	C041	41/71/72
PCB-15	2090	-			PCB-65	ND	7.14		
PCB-16	357	-			PCB-66	5440	-	C	76
PCB-17	351	-			PCB-67	174	-		
PCB-18	1080	-			PCB-68	116	-		
PCB-19	57.1	-			PCB-69	-	-	C052	52
PCB-20	1210	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	714	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	9.16			PCB-73	15.5	-	J	
PCB-24	13.0	-	J		PCB-74	2180	-		
PCB-25	134	-			PCB-75	-	-	C048	48
PCB-26	467	-			PCB-76	-	-	C066	66
PCB-27	67.6	-			PCB-77	1970	-		
PCB-28	1520	-			PCB-78	112	-		
PCB-29	ND	8.40			PCB-79	647	-		
PCB-30	ND	2.89			PCB-80	ND	6.20		
PCB-31	1670	-			PCB-81	652	-		
PCB-32	294	-			PCB-82	4540	-		
PCB-33	-	-	C020	20/21	PCB-83	1650	-	C	112
PCB-34	ND	7.88			PCB-84	16600	-	C	92
PCB-35	331	-			PCB-85	4850	-	C	116
PCB-36	57.2	-			PCB-86	55.9	-		
PCB-37	1080	-			PCB-87	15500	-	C	117/125
PCB-38	13.0	-	J		PCB-88	4230	-	C	91
PCB-39	142	-			PCB-89	344	-		
PCB-40	836	-			PCB-90	39900	-	C	101
PCB-41	4070	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	1110	-	C	59	PCB-92	-	-	C084	84
PCB-43	3240	-	C	49	PCB-93	ND	9.14		
PCB-44	5600	-			PCB-94	155	-		
PCB-45	359	-			PCB-95	30500	-		
PCB-46	253	-			PCB-96	206	-		
PCB-47	803	-			PCB-97	10800	-		
PCB-48	509	-	C	75	PCB-98	ND	6.70	C	102
PCB-49	-	-	C043	43	PCB-99	13100	-		
PCB-50	ND	9.70			PCB-100	73.6	-		

000043 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-013-SA
Client ID: HC20131102-W-5A
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	7260	-		
PCB-102	-	-	C098	98	PCB-152	49.5	-		
PCB-103	158	-			PCB-153	26300	-		
PCB-104	ND	4.48			PCB-154	277	-		
PCB-105	9250	-			PCB-155	14.6	-	J	
PCB-106	23400	-	C	118	PCB-156	7810	-		
PCB-107	1940	-	C	108	PCB-157	2410	-		
PCB-108	-	-	C107	107	PCB-158	4480	-	C	160
PCB-109	16.2	-	J		PCB-159	139	-		
PCB-110	31800	-			PCB-160	-	-	C158	158
PCB-111	529	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	7.04			PCB-163	-	-	C138	138/164
PCB-114	552	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	139	-		
PCB-117	-	-	C087	87/125	PCB-167	2850	-		
PCB-118	-	-	C106	106	PCB-168	47.9	-		
PCB-119	451	-			PCB-169	50.6	-		
PCB-120	209	-			PCB-170	12800	-		
PCB-121	ND	6.56			PCB-171	2130	-		
PCB-122	319	-			PCB-172	1380	-		
PCB-123	426	-			PCB-173	203	-		
PCB-124	1680	-			PCB-174	5670	-		
PCB-125	-	-	C087	87/117	PCB-175	245	-		
PCB-126	835	-			PCB-176	1070	-		
PCB-127	43.1	-			PCB-177	3730	-		
PCB-128	9830	-	C	162	PCB-178	1130	-		
PCB-129	2230	-			PCB-179	3180	-		
PCB-130	2590	-			PCB-180	14300	-		
PCB-131	1080	-	C	133	PCB-181	93.3	-		
PCB-132	13600	-	C	161	PCB-182	5560	-	C	187
PCB-133	-	-	C131	131	PCB-183	2950	-		
PCB-134	2260	-	C	143	PCB-184	24.8	-	J	
PCB-135	5430	-			PCB-185	664	-		
PCB-136	7420	-			PCB-186	ND	8.24		
PCB-137	2030	-			PCB-187	-	-	C182	182
PCB-138	32600	-	C	163/164	PCB-188	ND	6.64		
PCB-139	29900	-	C	149	PCB-189	494	-		
PCB-140	185	-			PCB-190	2230	-		
PCB-141	6610	-			PCB-191	395	-		
PCB-142	ND	9.72			PCB-192	ND	9.13		
PCB-143	-	-	C134	134	PCB-193	683	-		
PCB-144	1820	-			PCB-194	1230	-		
PCB-145	19.3	-	J		PCB-195	524	-		
PCB-146	4290	-	C	165	PCB-196	1290	-	C	203
PCB-147	693	-			PCB-197	67.9	-		
PCB-148	ND	6.19			PCB-198	71.6	-		
PCB-149	-	-	C139	139	PCB-199	1200	-		
PCB-150	65.4	-			PCB-200	215	-		

000044 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-013-SA
Client ID: HC20131102-W-5A
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013

Page 3 of 3

Compound	Conc	DL	Qual	Coeluters
PCB-201	209	-		
PCB-202	227	-		
PCB-203	-	-	C196	196
PCB-204	ND	2.60		
PCB-205	53.8	-		
PCB-206	115	-		
PCB-207	22.4	-	J	
PCB-208	26.3	-	J	
PCB-209	15.0	-	J	

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	92.7	5.00 - 145	
13C-PCB-3	91.5	5.00 - 145	
13C-PCB-4	92.6	5.00 - 145	
13C-PCB-15	96.0	5.00 - 145	
13C-PCB-19	91.0	5.00 - 145	
13C-PCB-37	96.8	5.00 - 145	
13C-PCB-54	91.9	5.00 - 145	
13C-PCB-77	106	10.0 - 145	
13C-PCB-81	105	10.0 - 145	
13C-PCB-104	92.7	10.0 - 145	
13C-PCB-105	96.7	10.0 - 145	
13C-PCB-114	89.5	10.0 - 145	
13C-PCB-118	91.3	10.0 - 145	
13C-PCB-123	94.4	10.0 - 145	
13C-PCB-126	105	10.0 - 145	
13C-PCB-155	92.8	10.0 - 145	
13C-PCB-156	104	10.0 - 145	
13C-PCB-157	101	10.0 - 145	
13C-PCB-167	98.9	10.0 - 145	
13C-PCB-169	107	10.0 - 145	
13C-PCB-188	87.1	10.0 - 145	
13C-PCB-189	101	10.0 - 145	
13C-PCB-202	86.5	10.0 - 145	
13C-PCB-205	89.1	10.0 - 145	
13C-PCB-206	87.7	10.0 - 145	
13C-PCB-208	86.1	10.0 - 145	
13C-PCB-209	80.6	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	113	5.00 - 145	
13C-PCB-111	108	10.0 - 145	
13C-PCB-178	102	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/18/2013

Reviewed By: 
Date: 11/18/2013

000045 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-014-SA
Client ID: HC20131102-W-5B
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013
Total Conc: 3340000

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	27.5	-	J		PCB-51	76.4	-		
PCB-2	14.5	-	J		PCB-52	16400	-	C	69
PCB-3	27.8	-	J		PCB-53	359	-		
PCB-4	52.9	-			PCB-54	ND	3.29		
PCB-5	ND	7.90			PCB-55	543	-		
PCB-6	41.1	-			PCB-56	11700	-	C	60
PCB-7	17.7	-	J		PCB-57	39.1	-	J	
PCB-8	219	-			PCB-58	13.7	-	J	
PCB-9	14.1	-	J		PCB-59	-	-	C042	42
PCB-10	ND	6.67			PCB-60	-	-	C056	56
PCB-11	804	-	B		PCB-61	56600	-	C	70
PCB-12	12.1	-	J		PCB-62	ND	4.86		
PCB-13	31.9	-	J		PCB-63	461	-		
PCB-14	ND	7.12			PCB-64	-	-	C041	41/71/72
PCB-15	112	-			PCB-65	ND	4.06		
PCB-16	155	-			PCB-66	18900	-	C	76
PCB-17	158	-			PCB-67	249	-		
PCB-18	449	-			PCB-68	44.3	-		
PCB-19	24.6	-	J		PCB-69	-	-	C052	52
PCB-20	751	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	442	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	7.35			PCB-73	27.0	-	J	
PCB-24	ND	6.58			PCB-74	7100	-		
PCB-25	61.2	-			PCB-75	-	-	C048	48
PCB-26	127	-			PCB-76	-	-	C066	66
PCB-27	31.7	-	J		PCB-77	21500	-		
PCB-28	769	-			PCB-78	539	-		
PCB-29	ND	6.74			PCB-79	1890	-		
PCB-30	ND	5.78			PCB-80	ND	3.52		
PCB-31	832	-			PCB-81	5060	-		
PCB-32	149	-			PCB-82	42900	-		
PCB-33	-	-	C020	20/21	PCB-83	10700	-	C	112
PCB-34	ND	6.32			PCB-84	80500	-	C	92
PCB-35	105	-			PCB-85	42800	-	C	116
PCB-36	ND	6.03			PCB-86	373	-		
PCB-37	659	-			PCB-87	128000	-	C	117/125
PCB-38	15.4	-	J		PCB-88	16500	-	C	91
PCB-39	ND	6.23			PCB-89	1090	-		
PCB-40	1230	-			PCB-90	242000	-	C	101
PCB-41	6570	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	1230	-	C	59	PCB-92	-	-	C084	84
PCB-43	3940	-	C	49	PCB-93	ND	7.69		
PCB-44	9390	-			PCB-94	340	-		
PCB-45	242	-			PCB-95	111000	-		
PCB-46	141	-			PCB-96	252	-		
PCB-47	735	-			PCB-97	85500	-		
PCB-48	515	-	C	75	PCB-98	ND	5.64	C	102
PCB-49	-	-	C043	43	PCB-99	91900	-		
PCB-50	ND	5.51			PCB-100	121	-		

000046 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-014-SA
Client ID: HC20131102-W-5B
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	39400	-		
PCB-102	-	-	C098	98	PCB-152	274	-		
PCB-103	277	-			PCB-153	225000	-		
PCB-104	ND	3.77			PCB-154	1890	-		
PCB-105	153000	-			PCB-155	ND	7.08		
PCB-106	336000	-	C	118	PCB-156	24300	-		
PCB-107	20800	-	C	108	PCB-157	7840	-		
PCB-108	-	-	C107	107	PCB-158	43200	-	C	160
PCB-109	51.2	-			PCB-159	419	-		
PCB-110	293000	-			PCB-160	-	-	C158	158
PCB-111	4780	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	9.84			PCB-163	-	-	C138	138/164
PCB-114	7950	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	1540	-		
PCB-117	-	-	C087	87/125	PCB-167	14400	-		
PCB-118	-	-	C106	106	PCB-168	406	-		
PCB-119	2710	-			PCB-169	53.3	-		
PCB-120	527	-			PCB-170	20300	-		
PCB-121	ND	5.52			PCB-171	7500	-		
PCB-122	3890	-			PCB-172	3070	-		
PCB-123	5660	-			PCB-173	830	-		
PCB-124	16700	-			PCB-174	19400	-		
PCB-125	-	-	C087	87/117	PCB-175	1120	-		
PCB-126	5740	-			PCB-176	3850	-		
PCB-127	285	-			PCB-177	12900	-		
PCB-128	62700	-	C	162	PCB-178	3810	-		
PCB-129	21600	-			PCB-179	10300	-		
PCB-130	24800	-			PCB-180	32800	-		
PCB-131	9990	-	C	133	PCB-181	606	-		
PCB-132	107000	-	C	161	PCB-182	19200	-	C	187
PCB-133	-	-	C131	131	PCB-183	11900	-		
PCB-134	21300	-	C	143	PCB-184	41.8	-		
PCB-135	37100	-			PCB-185	2200	-		
PCB-136	39000	-			PCB-186	ND	5.27		
PCB-137	22900	-			PCB-187	-	-	C182	182
PCB-138	276000	-	C	163/164	PCB-188	26.9	-	J	
PCB-139	213000	-	C	149	PCB-189	447	-		
PCB-140	1300	-			PCB-190	3690	-		
PCB-141	52100	-			PCB-191	806	-		
PCB-142	106	-			PCB-192	ND	5.84		
PCB-143	-	-	C134	134	PCB-193	1400	-		
PCB-144	11600	-			PCB-194	2280	-		
PCB-145	135	-			PCB-195	1250	-		
PCB-146	32700	-	C	165	PCB-196	3130	-	C	203
PCB-147	6880	-			PCB-197	175	-		
PCB-148	17.7	-	J		PCB-198	141	-		
PCB-149	-	-	C139	139	PCB-199	2920	-		
PCB-150	219	-			PCB-200	554	-		

000047 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-014-SA
Client ID: HC20131102-W-5B
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013

Page 3 of 3

Compound	Conc	DL	Qual	Coeluters
PCB-201	569	-		
PCB-202	562	-		
PCB-203	-	-	C196	196
PCB-204	ND	5.41		
PCB-205	96.2	-		
PCB-206	303	-		
PCB-207	61.7	-		
PCB-208	68.2	-		
PCB-209	28.9	-	J	

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	90.6	5.00 - 145	
13C-PCB-3	92.7	5.00 - 145	
13C-PCB-4	90.9	5.00 - 145	
13C-PCB-15	93.9	5.00 - 145	
13C-PCB-19	91.0	5.00 - 145	
13C-PCB-37	94.7	5.00 - 145	
13C-PCB-54	90.4	5.00 - 145	
13C-PCB-77	99.4	10.0 - 145	
13C-PCB-81	99.1	10.0 - 145	
13C-PCB-104	91.7	10.0 - 145	
13C-PCB-105	97.3	10.0 - 145	
13C-PCB-114	96.5	10.0 - 145	
13C-PCB-118	94.3	10.0 - 145	
13C-PCB-123	95.2	10.0 - 145	
13C-PCB-126	102	10.0 - 145	
13C-PCB-155	88.9	10.0 - 145	
13C-PCB-156	102	10.0 - 145	
13C-PCB-157	100	10.0 - 145	
13C-PCB-167	96.5	10.0 - 145	
13C-PCB-169	100	10.0 - 145	
13C-PCB-188	86.2	10.0 - 145	
13C-PCB-189	97.9	10.0 - 145	
13C-PCB-202	87.1	10.0 - 145	
13C-PCB-205	93.5	10.0 - 145	
13C-PCB-206	90.1	10.0 - 145	
13C-PCB-208	90.1	10.0 - 145	
13C-PCB-209	84.5	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	100	5.00 - 145	
13C-PCB-111	100	10.0 - 145	
13C-PCB-178	94.9	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/18/2013

Reviewed By: 
Date: 11/18/2013

000048 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-015-SA
Client ID: HC20131102-W-5C
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013
Total Conc: 269000

Page 1 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-1	88.2	-			PCB-51	1250	-		
PCB-2	244	-			PCB-52	35000	-	C	69
PCB-3	1590	-			PCB-53	5340	-		
PCB-4	356	-			PCB-54	117	-		
PCB-5	22.3	-	J		PCB-55	185	-		
PCB-6	211	-			PCB-56	623	-	C	60
PCB-7	37.8	-	J		PCB-57	66.8	-		
PCB-8	526	-			PCB-58	84.1	-		
PCB-9	46.8	-			PCB-59	-	-	C042	42
PCB-10	18.6	-	J		PCB-60	-	-	C056	56
PCB-11	2080	-	B		PCB-61	9840	-	C	70
PCB-12	221	-			PCB-62	ND	6.47		
PCB-13	9280	-			PCB-63	36.9	-	J	
PCB-14	21.6	-	J		PCB-64	-	-	C041	41/71/72
PCB-15	7790	-			PCB-65	ND	5.41		
PCB-16	417	-			PCB-66	1130	-	C	76
PCB-17	701	-			PCB-67	188	-		
PCB-18	3520	-			PCB-68	110	-		
PCB-19	320	-			PCB-69	-	-	C052	52
PCB-20	738	-	C	21/33	PCB-70	-	-	C061	61
PCB-21	-	-	C020	20/33	PCB-71	-	-	C041	41/64/72
PCB-22	243	-			PCB-72	-	-	C041	41/64/71
PCB-23	ND	4.77			PCB-73	127	-		
PCB-24	10.5	-	J		PCB-74	200	-		
PCB-25	676	-			PCB-75	-	-	C048	48
PCB-26	5080	-			PCB-76	-	-	C066	66
PCB-27	235	-			PCB-77	859	-		
PCB-28	429	-			PCB-78	62.4	-		
PCB-29	ND	4.39			PCB-79	381	-		
PCB-30	ND	2.09			PCB-80	20.1	-	J	
PCB-31	1750	-			PCB-81	163	-		
PCB-32	388	-			PCB-82	1770	-		
PCB-33	-	-	C020	20/21	PCB-83	865	-	C	112
PCB-34	44.5	-			PCB-84	7880	-	C	92
PCB-35	458	-			PCB-85	1560	-	C	116
PCB-36	394	-			PCB-86	11.0	-	J	
PCB-37	422	-			PCB-87	3540	-	C	117/125
PCB-38	30.9	-	J		PCB-88	3180	-	C	91
PCB-39	540	-			PCB-89	430	-		
PCB-40	806	-			PCB-90	14300	-	C	101
PCB-41	3860	-	C	64/71/72	PCB-91	-	-	C088	88
PCB-42	2100	-	C	59	PCB-92	-	-	C084	84
PCB-43	10700	-	C	49	PCB-93	ND	7.52		
PCB-44	9150	-			PCB-94	272	-		
PCB-45	664	-			PCB-95	14200	-		
PCB-46	1300	-			PCB-96	483	-		
PCB-47	1760	-			PCB-97	2670	-		
PCB-48	388	-	C	75	PCB-98	ND	5.51	C	102
PCB-49	-	-	C043	43	PCB-99	3070	-		
PCB-50	42.8	-			PCB-100	223	-		

000049 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-015-SA
Client ID: HC20131102-W-5C
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013

Page 2 of 3

Compound	Conc	DL	Qual	Coeluters	Compound	Conc	DL	Qual	Coeluters
PCB-101	-	-	C090	90	PCB-151	809	-		
PCB-102	-	-	C098	98	PCB-152	ND	7.91		
PCB-103	385	-	J		PCB-153	7520	-		
PCB-104	18.6	-			PCB-154	142	-		
PCB-105	2660	-			PCB-155	ND	5.57		
PCB-106	4550	-	C	118	PCB-156	3300	-		
PCB-107	589	-	C	108	PCB-157	1090	-		
PCB-108	-	-	C107	107	PCB-158	1580	-	C	160
PCB-109	10.4	-	J		PCB-159	28.1	-	J	
PCB-110	6940	-			PCB-160	-	-	C158	158
PCB-111	96.0	-	C	115	PCB-161	-	-	C132	132
PCB-112	-	-	C083	83	PCB-162	-	-	C128	128
PCB-113	ND	6.17			PCB-163	-	-	C138	138/164
PCB-114	98.1	-			PCB-164	-	-	C138	138/163
PCB-115	-	-	C111	111	PCB-165	-	-	C146	146
PCB-116	-	-	C085	85	PCB-166	56.9	-		
PCB-117	-	-	C087	87/125	PCB-167	1350	-		
PCB-118	-	-	C106	106	PCB-168	25.9	-	J	
PCB-119	450	-			PCB-169	29.1	-	J	
PCB-120	96.6	-			PCB-170	5530	-		
PCB-121	ND	5.40			PCB-171	700	-		
PCB-122	99.6	-			PCB-172	531	-		
PCB-123	123	-			PCB-173	65.6	-		
PCB-124	458	-			PCB-174	1290	-		
PCB-125	-	-	C087	87/117	PCB-175	56.1	-		
PCB-126	482	-			PCB-176	107	-		
PCB-127	14.4	-	J		PCB-177	972	-		
PCB-128	4850	-	C	162	PCB-178	156	-		
PCB-129	895	-			PCB-179	255	-		
PCB-130	1210	-			PCB-180	5430	-		
PCB-131	338	-	C	133	PCB-181	29.9	-	J	
PCB-132	3750	-	C	161	PCB-182	904	-	C	187
PCB-133	-	-	C131	131	PCB-183	640	-		
PCB-134	456	-	C	143	PCB-184	ND	3.94		
PCB-135	1270	-			PCB-185	93.9	-		
PCB-136	1460	-			PCB-186	ND	4.44		
PCB-137	606	-			PCB-187	-	-	C182	182
PCB-138	11100	-	C	163/164	PCB-188	ND	3.49		
PCB-139	6300	-	C	149	PCB-189	225	-		
PCB-140	107	-			PCB-190	936	-		
PCB-141	1480	-			PCB-191	170	-		
PCB-142	ND	9.88			PCB-192	ND	4.91		
PCB-143	-	-	C134	134	PCB-193	249	-		
PCB-144	251	-			PCB-194	485	-		
PCB-145	ND	8.43			PCB-195	179	-		
PCB-146	1540	-	C	165	PCB-196	379	-	C	203
PCB-147	159	-			PCB-197	ND	8.80		
PCB-148	ND	9.55			PCB-198	22.5	-	J	
PCB-149	-	-	C139	139	PCB-199	299	-		
PCB-150	49.4	-			PCB-200	25.0	-	J	

000050 of 000054

EPA Modified Method 1668 PCBs



FAL ID: 8155-015-SA
Client ID: HC20131102-W-5C
Matrix: Wipe
Batch No: X2966

Date Extracted: 11-07-2013
Date Received: 11-05-2013
Amount: 1.00 sample

ICal: DAILY209AFAL4-11-8-13
GC Column: DB1
Units: pg/sample

Acquired: 11-09-2013

Page 3 of 3

Compound	Conc	DL	Qual	Coeluters
PCB-201	18.5	-	J	
PCB-202	17.0	-	J	
PCB-203	-	-	C196	196
PCB-204	ND	8.40		
PCB-205	22.4	-	J	
PCB-206	44.6	-		
PCB-207	ND	5.85		
PCB-208	ND	8.38		
PCB-209	ND	6.88		

Internal Standards	% Rec	QC Limits	Qual
13C-PCB-1	92.9	5.00 - 145	
13C-PCB-3	92.5	5.00 - 145	
13C-PCB-4	92.4	5.00 - 145	
13C-PCB-15	96.8	5.00 - 145	
13C-PCB-19	90.7	5.00 - 145	
13C-PCB-37	96.2	5.00 - 145	
13C-PCB-54	90.6	5.00 - 145	
13C-PCB-77	99.7	10.0 - 145	
13C-PCB-81	99.3	10.0 - 145	
13C-PCB-104	95.3	10.0 - 145	
13C-PCB-105	99.7	10.0 - 145	
13C-PCB-114	95.2	10.0 - 145	
13C-PCB-118	95.4	10.0 - 145	
13C-PCB-123	93.0	10.0 - 145	
13C-PCB-126	103	10.0 - 145	
13C-PCB-155	91.1	10.0 - 145	
13C-PCB-156	101	10.0 - 145	
13C-PCB-157	100	10.0 - 145	
13C-PCB-167	96.7	10.0 - 145	
13C-PCB-169	105	10.0 - 145	
13C-PCB-188	86.2	10.0 - 145	
13C-PCB-189	99.8	10.0 - 145	
13C-PCB-202	88.4	10.0 - 145	
13C-PCB-205	91.1	10.0 - 145	
13C-PCB-206	91.3	10.0 - 145	
13C-PCB-208	86.7	10.0 - 145	
13C-PCB-209	85.8	10.0 - 145	

Cleanup Surrogates	% Rec	QC Limits	Qual
13C-PCB-28	114	5.00 - 145	
13C-PCB-111	106	10.0 - 145	
13C-PCB-178	101	10.0 - 145	

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Coelution
- D Presence of Diphenyl Ethers
- DNQ Analyte concentration is below calibration range
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected at Detection Limit Level
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 
Date: 11/18/2013

Reviewed By: 
Date: 11/18/2013

000051 of 000054



Frontier Analytical Laboratory
5172 Hillsdale Circle
El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999

FAL USE ONLY

Laboratory Project No.: 8155
Temperature: 0 °C

Chain of Custody

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Please Print in Pen Page 1 of 3

CLIENT INFORMATION					INVOICE INFORMATION (if different from client info)					PROJECT INFORMATION										
Company Name: <u>Phylmar Group</u>					Company Name: <u>Same</u>					FAL Quote #: <u>2711A</u>										
Contact Name: <u>Mark Katchen</u>					Contact Name: _____					P.O. #: _____										
Address: <u>2342 Manning Ave., Los Angeles, CA 90064</u>					Address: _____					Project #: <u>365-001A</u>										
Phone: <u>310-474-3937</u> Fax: _____					Phone: _____ Fax: _____					Project Name: <u>MHS/Cabrillo monitoring</u>										
Email: <u>mkatchen@phylmar.com</u>					Email: _____					TAT (business days): ☐ 15 ☒ 10 ☐ 5* ☐ 3* (✓ one)										
										* FAL must agree with price and RUSH TAT in writing.										
REPORT INFORMATION					REPORT DISTRIBUTION (email only is preferred)					ADDITIONAL INSTRUCTIONS										
Report Level: ☐ I/II ☐ III ☐ IV					☐ Hardcopy															
☐ EDD: ☐ FAL Basic ☐ Geotracker					☐ CD (.pdf including EDDs if requested)															
☐ Other: _____ ☐ Custom: Contact FAL					☒ Email (.pdf including EDDs if requested)															
☐ California State Drinking Water Form																				
System #: _____ Source #: _____																				
Sampler: _____ Employer: _____																				
Sample ID					Date	Time	Matrix	# of containers	EPA 1613**	EPA 8290**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/9A	EPA 23/23A	EPA 1668	FAL 15	Other	**CONGENERS	**TEQ
					Collected														☐ 2,3,7,8-TCDD only	☐ 1998 WHO
																			☐ 2,3,7,8-TCDD/F only	☐ 2005 WHO
																			☐ PCDD/F (Cl ₄ -Cl ₈)	☐ Other
																			Remarks	
1	<u>HE20131102-W-1A</u>				<u>11/2/13</u>		<u>Wipe</u>	<u>1</u>								☒			<u>Area = 100 cm²</u>	
2	<u>W-1B</u>															☒			<u>Area = 104 cm²</u>	
3	<u>W-1C</u>															☒			<u>Area = 99 cm²</u>	
4	<u>W-2A</u>															☒			<u>Area = 100 cm²</u>	
5	<u>W-2B</u>															☒			<u>Area = 100 cm²</u>	
6	<u>W-2C</u>															☒			<u>Area = 100 cm²</u>	
7	<u>W-3A</u>															☒			<u>Area = 100 cm²</u>	
8	<u>W-3B</u>															☒			<u>Area = 100 cm²</u>	
9	<u>W-3C</u>															☒			<u>Area = 100 cm²</u>	
10	<u>W-4A</u>															☒			<u>Area = 100 cm²</u>	
11	<u>W-4B</u>															☒			<u>Area = 100 cm²</u>	
12	<u>W-4C</u>															☒			<u>Area = 100 cm²</u>	
13	<u>W-5A</u>															☒			<u>Area = 100 cm²</u>	
14	<u>W-5B</u>															☒			<u>Area = 100 cm²</u>	
15	<u>W-5C</u>															☒			<u>Area = 100 cm²</u>	
Samples will be disposed of 90 days after sample receipt unless other arrangements have been made and agreed upon in writing.																				
Relinquished by: (Signature and Printed Name)								Date	Time	Received by: (Signature and Printed Name)								Date	Time	
<u>[Signature] - Steven Modica</u>								<u>11/4/13</u>	<u>-</u>	<u>[Signature] KZIPP</u>								<u>11-5-13</u>	<u>1105</u>	

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed.
FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.

White Copy - Report

Yellow Copy - Laboratory

Pink Copy - Originator

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **8155**

Client:	The Phylmar Group
Client Project ID:	365-001A
Date Received:	11/05/2013
Time Received:	11:05 am
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	15
Duplicates:	0
Storage Location:	R2

Method of Delivery:	Other
Tracking Number:	523102461
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	No
Test aqueous sample for residual Chlorine	No
Sodium Thiosulfate Added	No
Adequate Sample Volume	Yes
Appropriate Sample Container	Yes
pH Range of Aqueous Sample	N/A
Anomalies or additional comments:	

CLIENT INFORMATION		INVOICE INFORMATION (if different from client info)		PROJECT INFORMATION	
FRONTIER ANALYTICAL LABORATORY Company Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Tel: 916-934-0900 Fax: 916-934-0999		FAL USE ONLY Laboratory Project No.: <u>8155</u> Temperature: <u>0</u> °C		Chain of Custody www.frontieranalytical.com Please Print in Pen Page <u>1</u> of <u>3</u>	
8155-011-SA Client ID: HC20131102-W-4B Storage: R2 (01 of 01)		8155-012-SA Client ID: HC20131102-W-4C Storage: R2 (01 of 01)		8155-013-SA Client ID: HC20131102-W-5A Storage: R2 (01 of 01)	
8155-014-SA Client ID: HC20131102-W-5B Storage: R2 (01 of 01)		8155-015-SA Client ID: HC20131102-W-5C Storage: R2 (01 of 01)			
8155-006-SA Client ID: HC20131102-W-2C Storage: R2 (01 of 01)		8155-007-SA Client ID: HC20131102-W-3A Storage: R2 (01 of 01)		8155-008-SA Client ID: HC20131102-W-3B Storage: R2 (01 of 01)	
8155-009-SA Client ID: HC20131102-W-3C Storage: R2 (01 of 01)		8155-010-SA Client ID: HC20131102-W-4A Storage: R2 (01 of 01)			
8155-001-SA Client ID: HC20131102-W-1A Storage: R2 (01 of 01)		8155-002-SA Client ID: HC20131102-W-1B Storage: R2 (01 of 01)		8155-003-SA Client ID: HC20131102-W-1C Storage: R2 (01 of 01)	
8155-004-SA Client ID: HC20131102-W-2A Storage: R2 (01 of 01)		8155-005-SA Client ID: HC20131102-W-2B Storage: R2 (01 of 01)			