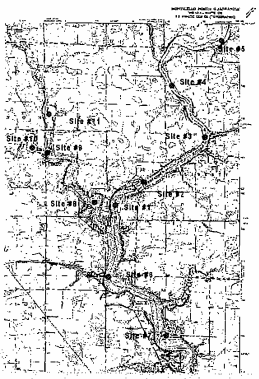
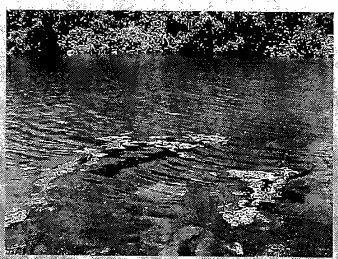
Volume No. 2

Final Report
for
Lake Shafer Dredging Project
Sediment Sampling & Analysis





ENVIRONMENTAL CONSERVATION CORPORATION

Shafer and Freeman Lakes Environmental Conservation Corp.

July, 2000

COMMONWEALTH ENGINEERS, INC.

4C
METHOD BLANK SUMMARY

PBLK01

Lab Name : Specialized Assays
Lab Code : SASSAYS SDG : 189955

Matrix :	soil		
Lab Sample ID :	12305 sbp	Lab File ID :	050900p9.027
Date Extracted :	5/2/00	Extraction :	Sonc.
Date Analyzed (1) :	5/10/00	Date Analyzed (2) :	5/10/00
Time Analyzed (1) :	10:10	Time Analyzed (2) :	10:10
Instrument ID (1) :	PE#9	Instrument ID (2) :	PE#9
GC Column (1) :	RTX CLPesticides	GC Column (2) :	RTX CLPesticides II
ID Column (1) :	0.32mm X 30m	ID Column (2) :	0.32mm X 30m

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	Client ID	Lab ID	Date Analyzed	Time Analyzed
1	264722MS	12306 ssp	5/10/00	00:06
2	264722MSD	12307 ssp	5/10/00	00:46
3	CONTROLS	13360 lcs	5/10/00	10:50
4	264716	58004	5/10/00	01:26
5	264717	58005	5/10/00	02:07
6	264718	58006	5/10/00	02:47
7	264719	58007	5/10/00	03:27
8	264720	58008	5/10/00	04:08
9	264721	58009	5/10/00	04:48
10	264722	58010	5/10/00	05:28
11	264723	58011	5/10/00	06:08
12	264724	58012	5/10/00	08:09
13	264725	58013	5/10/00	08:49
14	264726	58073	5/10/00	09:30
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name : SPECIALIZED ASSAYS
Lab Code : SASSAYS SDG : 189955
Instrument ID : PE#9
GC Column : RTX CLPesticides ID : 30 m x 0.32 mm

Date(s) Analyzed : 5/9/00 5/9/00

Compound	RT of STANDARDS (ug/L)						MEAN	RT WINDOW(MIN)	
	5.0	20	50	70	100	150	RT	FROM	TO
alpha-BHC	9.36	9.37	9.37	9.35	9.36	9.35	9.36	9.31	9.41
gamma-BHC	10.12	10.13	10.13	10.11	10.12	10.11	10.12	10.07	10.17
beta-BHC	10.36	10.37	10.36	10.35	10.36	10.35	10.36	10.31	10.41
delta-BHC	10.75	10.77	10.76	10.75	10.76	10.75	10.76	10.71	10.81
Heptachlor	11.21	11.23	11.22	11.21	11.21	11.21	11.21	11.16	11.26
Aldrin	11.87	11.88	11.87	11.86	11.87	11.86	11.87	11.82	11.92
Heptachlor epoxide	13.16	13.18	13.17	13.15	13.16	13.16	13.16	13.09	13.23
gamma-Chlordane	13.42	13.44	13.43	13.42	13.42	13.42	13.42	13.35	13.49
alpha-Chlordane	13.69	13.71	13.70	13.69	13.69	13.69	13.70	13.63	13.77
4,4'-DDE	13.89	13.91	13.90	13.89	13.89	13.89	13.90	13.83	13.97
Endosulfan I	13.95	13.97	13.96	13.95	13.95	13.95	13.95	13.88	14.02
Dieldrin	14.45	14.46	14.45	14.44	14.45	14.44	14.45	14.38	14.52
Endrin	14.90	14.92	14.90	14.89	14.90	14.89	14.90	14.83	14.97
4,4'-DDD	15.08	15.10	15.08	15.07	15.08	15.07	15.08	15.01	15.15
Endosulfan II	15.35	15.37	15.35	15.34	15.35	15.34	15.35	15.28	15.42
4,4'-DDT	15.63	15.65	15.63	15.62	15.63	15.62	15.63	15.56	15.70
Endrin aldehyde	16.17	16.19	16.17	16.16	16.17	16.17	16.17	16.10	16.24
Methoxychlor	16.62	16.64	16.62	16.61	16.62	16.62	16.62	16.55	16.69
Endosulfan sulfate	17.02	17.04	17.02	17.01	17.01	17.01	17.02	16.97	17.07
Endrin ketone	17.55	17.58	17.55	17.55	17.55	17.55	17.56	17.51	17.61
Tetrachloro-m-xylene	7.94	7.95	7.95	7.94	7.94	7.93	7.94	7.89	7.99
Decachlorobiphenyl	19.53	19.55	19.53	19.53	19.53	19.53	19.53	19.43	19.63

Retention time windows are +/- 0.05 minutes for all analytes that elute before heptachlor epoxide and are +/- 0.07 minutes for all other analytes.

6D
PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name : SPECIALIZED ASSAYS
Lab Code : SASSAYS SDG : 189955
Instrument ID : PE#9
GC Column : RTX CLPesticides II ID : 30 m x 0.32 mm

Date(s) Analyzed : 5/9/00 5/9/00

Compound	RT of STANDARDS (ug/L)						MEAN	RT WINDOW(MIN)	
	5.0	20	50	70	100	150	RT	FROM	TO
alpha-BHC	9.95	9.96	9.96	9.94	9.95	9.95	9.95	9.90	10.00
gamma-BHC	10.80	10.81	10.81	10.80	10.80	10.80	10.80	10.75	10.85
beta-BHC	11.03	11.04	11.03	11.02	11.03	11.02	11.03	10.98	11.08
delta-BHC	11.69	11.70	11.69	11.68	11.69	11.69	11.69	11.64	11.74
Heptachlor	11.77	11.79	11.78	11.77	11.77	11.77	11.77	11.72	11.82
Aldrin	12.46	12.48	12.47	12.46	12.46	12.46	12.46	12.41	12.51
Heptachlor epoxide	13.69	13.71	13.69	13.69	13.69	13.69	13.69	13.62	13.76
gamma-Chlordane	14.08	14.10	14.08	14.07	14.08	14.08	14.08	14.01	14.15
alpha-Chlordane	14.38	14.40	14.38	14.37	14.38	14.37	14.38	14.31	14.45
Endosufan I	14.48	14.50	14.48	14.47	14.48	14.48	14.48	14.41	14.55
4,4'-DDE	14.77	14.78	14.77	14.76	14.76	14.76	14.77	14.70	14.84
Dieldrin	15.04	15.06	15.04	15.03	15.04	15.03	15.04	14.97	15.11
Endrin	15.64	15.66	15.64	15.63	15.64	15.63	15.64	15.57	15.71
4,4'-DDD	15.91	15.93	15.91	15.91	15.91	15.91	15.91	15.84	15.98
Endosulfan II	16.07	16.09	16.07	16.06	16.07	16.06	16.07	16.00	16.14
4,4'-DDT	16.52	16.54	16.52	16.52	16.52	16.52	16.52	16.45	16.59
Endrin aldehyde	16.74	16.76	16.74	16.73	16.74	16.73	16.74	16.67	16.81
Endosulfan sulfate	17.28	17.30	17.27	17.27	17.28	17.27	17.28	17.21	17.35
Methoxychlor	17.90	17.92	17.90	17.89	17.90	17.89	17.90	17.85	17.95
Endrin ketone	18.31	18.33	18.31	18.30	18.31	18.31	18.31	18.26	18.36
Tetrachloro-m-xylene	8.36	8.37	8.37	8.35	8.36	8.35	8.36	8.31	8.41
Decachlorobiphenyl	20.70	20.73	20.70	20.70	20.70	20.70	20.70	20.60	20.80

Retention time windows are +/- 0.05 minutes for all analytes that elute before heptachlor epoxide and are +/- 0.07 minutes for all other analytes.
+/- 0.10 minutes for Dibutylchlorendate.

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name : SPECIALIZED ASSAYS
Lab Code : SASSAYS
Instrument ID : PE#9
GC Column : RTX CLPesticides

SDG : 189955
ID : 30 m x 0.32 mm

Date(s) Analyzed : 5/9/00 5/9/00

COMPOUND	CALIBRATION FACTORS						MEAN	% RSD
	5.0	20	50	70	100	150		
alpha-BHC	5.310E-8	4.071E-8	5.167E-8	5.237E-8	5.247E-8	5.597E-8	5.105E-8	10.34
gamma-BHC	5.680E-8	4.274E-8	5.513E-8	5.620E-8	5.651E-8	5.922E-8	5.443E-8	10.81
beta-BHC	1.080E-7	9.104E-8	1.227E-7	1.266E-7	1.292E-7	1.365E-7	1.190E-7	13.98
delta-BHC	5.617E-8	4.059E-8	5.121E-8	5.175E-8	5.176E-8	5.555E-8	5.117E-8	10.94
Heptachlor	5.639E-8	4.401E-8	5.738E-8	5.852E-8	5.917E-8	6.185E-8	5.622E-8	11.14
Aldrin	5.792E-8	4.560E-8	6.044E-8	6.190E-8	6.241E-8	6.509E-8	5.889E-8	11.76
Heptachlor epoxide	6.182E-8	5.215E-8	6.965E-8	7.105E-8	7.205E-8	7.539E-8	6.702E-8	12.78
gamma-Chlordane	5.869E-8	5.111E-8	6.860E-8	6.999E-8	7.126E-8	7.403E-8	6.561E-8	13.44
alpha-Chlordane	6.040E-8	5.200E-8	7.004E-8	7.147E-8	7.294E-8	7.589E-8	6.712E-8	13.52
4,4'-DDE	7.025E-8	5.802E-8	7.713E-8	7.921E-8	8.068E-8	8.510E-8	7.506E-8	12.88
Endosulfan I	6.360E-8	5.222E-8	6.959E-8	7.102E-8	7.288E-8	7.490E-8	6.737E-8	12.40
Dieldrin	7.189E-8	5.872E-8	7.517E-8	7.615E-8	7.647E-8	7.957E-8	7.299E-8	10.16
Endrin	7.428E-8	6.067E-8	7.695E-8	7.827E-8	7.871E-8	8.185E-8	7.512E-8	9.98
4,4'-DDD	1.068E-7	8.293E-8	1.009E-7	1.031E-7	1.020E-7	1.055E-7	1.002E-7	8.73
Endosulfan II	8.348E-8	6.575E-8	8.215E-8	8.593E-8	8.626E-8	9.062E-8	8.237E-8	10.49
4,4'-DDT	1.066E-7	7.855E-8	9.787E-8	1.015E-7	9.980E-8	1.034E-7	9.795E-8	10.17
Endrin aldehyde	1.211E-7	9.075E-8	1.146E-7	1.183E-7	1.192E-7	1.241E-7	1.147E-7	10.57
Methoxychlor	1.846E-7	1.404E-7	1.697E-7	1.847E-7	1.876E-7	1.927E-7	1.766E-7	10.95
Endosulfan sulfate	9.661E-8	7.570E-8	8.951E-8	9.650E-8	9.455E-8	1.010E-7	9.232E-8	9.70
Endrin ketone	8.365E-8	6.608E-8	8.618E-8	9.138E-8	8.476E-8	9.224E-8	8.405E-8	11.27
Tetrachloro-m-xylene	9.900E-8	8.693E-8	1.194E-7	1.253E-7	1.278E-7	1.351E-7	1.156E-7	16.11
Decachlorobiphenyl	1.557E-7	1.154E-7	1.312E-7	1.250E-7	1.294E-7	1.400E-7	1.328E-7	10.41

The % RSD must be less than or equal 20.0 % for all compounds.

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name : SPECIALIZED ASSAYS
Lab Code : SASSAYS SDG : 189955
Instrument ID : PE#9
GC Column : RTX CLPesticides II ID : 30 m x 0.32 mm

Date(s) Analyzed : 5/9/00 5/9/00

COMPOUND	CALIBRATION FACTORS						MEAN	% RSD
	5.0	20	50	70	100	150		
alpha-BHC	4.617E-8	3.417E-8	4.475E-8	4.613E-8	4.697E-8	5.433E-8	4.542E-8	14.26
gamma-BHC	4.788E-8	3.699E-8	4.885E-8	5.060E-8	5.174E-8	5.728E-8	4.889E-8	13.69
beta-BHC	7.736E-8	6.867E-8	9.417E-8	9.867E-8	1.014E-7	1.091E-7	9.157E-8	16.83
delta-BHC	4.832E-8	3.674E-8	4.809E-8	4.931E-8	5.026E-8	5.680E-8	4.825E-8	13.46
Heptachlor	4.908E-8	4.045E-8	5.449E-8	5.649E-8	5.767E-8	6.155E-8	5.329E-8	14.09
Aldrin	5.119E-8	4.123E-8	5.551E-8	5.743E-8	5.856E-8	6.188E-8	5.430E-8	13.46
Heptachlor epoxide	5.945E-8	4.865E-8	6.445E-8	6.623E-8	6.772E-8	7.147E-8	6.299E-8	12.80
gamma-Chlordane	5.861E-8	4.784E-8	6.367E-8	6.545E-8	6.659E-8	6.976E-8	6.199E-8	12.66
alpha-Chlordane	5.887E-8	4.844E-8	6.488E-8	6.693E-8	6.864E-8	7.214E-8	6.332E-8	13.45
Endosufan I	6.559E-8	5.269E-8	7.014E-8	7.210E-8	7.320E-8	7.702E-8	6.846E-8	12.55
4,4'-DDE	7.304E-8	5.410E-8	7.020E-8	7.162E-8	7.261E-8	7.546E-8	6.951E-8	11.14
Dieldrin	7.204E-8	5.474E-8	7.094E-8	7.243E-8	7.327E-8	7.575E-8	6.986E-8	10.85
Endrin	7.703E-8	5.923E-8	7.601E-8	7.832E-8	7.865E-8	8.199E-8	7.521E-8	10.75
4,4'-DDD	9.128E-8	7.001E-8	8.816E-8	9.106E-8	9.084E-8	9.481E-8	8.769E-8	10.17
Endosulfan II	7.687E-8	6.136E-8	8.043E-8	8.280E-8	8.300E-8	8.684E-8	7.855E-8	11.51
4,4'-DDT	9.075E-8	6.912E-8	9.069E-8	9.210E-8	9.228E-8	9.547E-8	8.840E-8	10.86
Endrin aldehyde	1.030E-7	8.058E-8	1.051E-7	1.086E-7	1.080E-7	1.127E-7	1.030E-7	11.13
Endosulfan sulfate	8.750E-8	6.684E-8	8.730E-8	8.928E-8	9.062E-8	9.407E-8	8.594E-8	11.26
Methoxychlor	1.731E-7	1.300E-7	1.517E-7	1.661E-7	1.675E-7	1.738E-7	1.604E-7	10.52
Endrin ketone	8.074E-8	6.573E-8	8.171E-8	8.366E-8	8.502E-8	8.845E-8	8.089E-8	9.77
Tetrachloro-m-xylene	5.604E-8	4.870E-8	6.695E-8	7.022E-8	7.232E-8	7.762E-8	6.531E-8	16.62
Decachlorobiphenyl	1.330E-7	9.677E-8	1.218E-7	1.239E-7	1.271E-7	1.283E-7	1.218E-7	10.56

The % RSD must be less than or equal 20.0 % for all compounds.

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name : SPECIALIZED ASSAYS
Lab Code : SASSAYS

SDG : 189955

EPA Sample ID (BD) : BD01
Lab Sample ID (BD) : BREAKDOWN
EPA Sample ID (CCV) : CCV01
Lab Sample ID (CCV) : 0.05 PEST

Date Analyzed : 5/10/00
Time Analyzed : 06:49
Date Analyzed : 5/10/00
Time Analyzed : 07:29

GC Column (1) : RTX CLPesticides ID : 30 m x 0.32 mm
Initial Calibration Date(s) : 5/9/00

GC Column (2) : RTX CLPesticides II ID : 30 m x 0.32 mm
Initial Calibration Date(s) : 5/9/00

COMPOUNDS	RT	RT Window		Calc. Amount	Known Amount	% Diff.	COMPOUNDS	RT	RT Window		Calc. Amount	Known Amount	% Diff.
		From	To	(ng)	(ng)				From	To	(ng)	(ng)	
Tetrachloro-m-xylene	7.92	7.87	7.97	51.4	50.0	3	Tetrachloro-m-xylene	8.33	8.28	8.38	49.2	50.0	-2
alpha-BHC	9.33	9.28	9.38	53.0	50.0	6	alpha-BHC	9.92	9.87	9.97	51.0	50.0	2
gamma-BHC	10.09	10.04	10.14	53.4	50.0	7	gamma-BHC	10.77	10.72	10.82	50.3	50.0	1
beta-BHC	10.33	10.28	10.38	53.3	50.0	7	beta-BHC	11.00	10.95	11.05	49.8	50.0	0
delta-BHC	10.73	10.68	10.78	57.2	50.0	14	delta-BHC	11.66	11.61	11.71	53.8	50.0	8
Heptachlor	11.19	11.14	11.24	52.4	50.0	5	Heptachlor	11.75	11.70	11.80	49.5	50.0	-1
Aldrin	11.84	11.79	11.89	52.0	50.0	4	Aldrin	12.44	12.39	12.49	49.2	50.0	-2
achlor epoxide	13.13	13.08	13.18	52.1	50.0	4	Heptachlor epoxide	13.67	13.62	13.72	50.0	50.0	0
gamma-Chlordane	13.39	13.32	13.46	52.9	50.0	6	gamma-Chlordane	14.05	13.98	14.12	50.1	50.0	0
alpha-Chlordane	13.67	13.60	13.74	52.6	50.0	5	alpha-Chlordane	14.35	14.28	14.42	50.5	50.0	1
4,4'-DDE	13.87	13.80	13.94	47.9	50.0	-4	Endosufan I	14.45	14.38	14.52	50.7	50.0	1
Endosulfan I	13.93	13.86	14.00	59.5	50.0	19 *	4,4'-DDE	14.74	14.67	14.81	51.1	50.0	2
Dieldrin	14.42	14.35	14.49	53.5	50.0	7	Dieldrin	15.01	14.94	15.08	51.1	50.0	2
Endrin	14.87	14.80	14.94	53.0	50.0	6	Endrin	15.61	15.54	15.68	51.0	50.0	2
4,4'-DDD	15.05	14.98	15.12	56.5	50.0	13	4,4'-DDD	15.88	15.81	15.95	53.3	50.0	7
Endosulfan II	15.32	15.25	15.39	54.1	50.0	8	Endosulfan II	16.04	15.97	16.11	51.0	50.0	2
4,4'-DDT	15.60	15.53	15.67	50.1	50.0	0	4,4'-DDT	16.49	16.42	16.56	47.5	50.0	-5
Endrin aldehyde	16.14	16.07	16.21	55.7	50.0	11	Endrin aldehyde	16.71	16.64	16.78	51.4	50.0	3
Methoxychlor	16.59	16.52	16.66	52.1	50.0	4	Endosulfan sulfate	17.25	17.18	17.32	52.6	50.0	5
Endosulfan sulfate	16.99	16.92	17.06	52.6	50.0	5	Methoxychlor	17.87	17.80	17.94	48.1	50.0	-4
Endrin ketone	17.52	17.45	17.59	52.4	50.0	5	Endrin ketone	18.28	18.21	18.35	51.6	50.0	3
Decachlorobiphenyl	19.50	19.43	19.57	56.7	50.0	13	Decachlorobiphenyl	20.67	20.60	20.74	50.4	50.0	1
				Average % Difference :		7					Average % Difference :		2

4,4'-DDT % BD (1) : 11.0 Endrin % BD (1) : 3.3
Combined % Breakdown (1) : 14.3

4,4'-DDT % BD (2) : 10.9 Endrin % BD (2) : 2.9
Combined % Breakdown (2) : 13.8

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name : SPECIALIZED ASSAYS
Lab Code : SASSAYS

SDG : 189955

EPA Sample ID (BD) : BD02
Lab Sample ID (BD) : BREAKDOWN
EPA Sample ID (CCV) : CCV02
Lab Sample ID (CCV) : 0.05 PEST

Date Analyzed : 5/10/00
Time Analyzed : 11:31
Date Analyzed : 5/10/00
Time Analyzed : 12:12

GC Column (1) : RTX CLPesticides ID : 30 m x 0.32 mm
Initial Calibration Date(s) : 5/9/00

GC Column (2) : RTX CLPesticides II ID : 30 m x 0.32 mm
Initial Calibration Date(s) : 5/9/00

COMPOUNDS	RT	RT Window		Calc. Amount	Known Amount	% Diff.
		From	To	(ng)	(ng)	
Tetrachloro-m-xylene	7.96	7.91	8.01	52.0	50.0	4
alpha-BHC	9.38	9.33	9.43	53.5	50.0	7
gamma-BHC	10.14	10.09	10.19	53.4	50.0	7
beta-BHC	10.38	10.33	10.43	53.1	50.0	6
delta-BHC	10.78	10.73	10.83	56.4	50.0	13
Heptachlor	11.23	11.18	11.28	51.0	50.0	2
Aldrin	11.89	11.84	11.94	50.7	50.0	1
achlor epoxide	13.18	13.13	13.23	51.9	50.0	4
gamma-Chlordane	13.44	13.37	13.51	50.7	50.0	1
alpha-Chlordane	13.71	13.64	13.78	49.6	50.0	-1
4,4'-DDE	13.91	13.84	13.98	49.3	50.0	-1
Endosulfan I	13.97	13.90	14.04	51.8	50.0	4
Dieldrin	14.47	14.40	14.54	50.0	50.0	0
Endrin	14.92	14.85	14.99	49.5	50.0	-1
4,4'-DDD	15.10	15.03	15.17	51.0	50.0	2
Endosulfan II	15.37	15.30	15.44	50.2	50.0	0
4,4'-DDT	15.65	15.58	15.72	48.0	50.0	-4
Endrin aldehyde	16.19	16.12	16.26	51.3	50.0	3
Methoxychlor	16.64	16.57	16.71	48.9	50.0	-2
Endosulfan sulfate	17.04	16.97	17.11	51.9	50.0	4
Endrin ketone	17.58	17.51	17.65	51.4	50.0	3
Decachlorobiphenyl	19.55	19.48	19.62	53.9	50.0	8

Average % Difference : 4

COMPOUNDS	RT	RT Window		Calc. Amount	Known Amount	% Diff.
		From	To	(ng)	(ng)	
Tetrachloro-m-xylene	8.38	8.33	8.43	49.1	50.0	-2
alpha-BHC	9.97	9.92	10.02	50.4	50.0	1
gamma-BHC	10.82	10.77	10.87	49.5	50.0	-1
beta-BHC	11.05	11.00	11.10	49.0	50.0	-2
delta-BHC	11.71	11.66	11.76	51.8	50.0	4
Heptachlor	11.79	11.74	11.84	47.9	50.0	-4
Aldrin	12.49	12.44	12.54	47.1	50.0	-6
Heptachlor epoxide	13.71	13.66	13.76	47.3	50.0	-5
gamma-Chlordane	14.10	14.03	14.17	47.0	50.0	-6
alpha-Chlordane	14.40	14.33	14.47	46.9	50.0	-6
Endosufan I	14.50	14.43	14.57	47.1	50.0	-6
4,4'-DDE	14.79	14.72	14.86	47.2	50.0	-6
Dieldrin	15.06	14.99	15.13	47.1	50.0	-6
Endrin	15.66	15.59	15.73	46.6	50.0	-7
4,4'-DDD	15.93	15.86	16.00	48.2	50.0	-4
Endosulfan II	16.09	16.02	16.16	47.0	50.0	-6
4,4'-DDT	16.54	16.47	16.61	44.8	50.0	-10
Endrin aldehyde	16.76	16.69	16.83	47.8	50.0	-4
Endosulfan sulfate	17.30	17.23	17.37	48.3	50.0	-3
Methoxychlor	17.92	17.85	17.99	45.4	50.0	-9
Endrin ketone	18.34	18.27	18.41	48.3	50.0	-3
Decachlorobiphenyl	20.73	20.66	20.80	49.2	50.0	-2

Average % Difference : 5

4,4'-DDT % BD (1) : 9.8 Endrin % BD (1) : 4.0
Combined % Breakdown (1) : 13.7

4,4'-DDT % BD (2) : 8.6 Endrin % BD (2) : 4.0
Combined % Breakdown (2) : 12.6

Sequence Summary Report

Sequence : C:\Chrom231\Sequence\050900p9.seq
User : System
Created : 5/11/2000 11:29:42

Start Time	**ECD A RTX CLPesticides**
Sample ID	hexane
Filename	C:\Chrom231\PE#9\public\050900p9.001
Date	5/9/2000 16:53:30

Start Time	**ECD A RTX CLPesticides**
Sample ID	pest 0.005(4-w-mc-222-3)
Filename	C:\Chrom231\PE#9\public\050900p9.002
Date	5/9/2000 17:23:00

Start Time	**ECD A RTX CLPesticides**
Sample ID	pest 0.02 (4-w-mc-222-3)
Filename	C:\Chrom231\PE#9\public\050900p9.003
Date	5/9/2000 18:03:11

Start Time	**ECD A RTX CLPesticides**
Sample ID	pest 0.05 (4-w-mc-222-3)
Filename	C:\Chrom231\PE#9\public\050900p9.004
Date	5/9/2000 18:43:47

Start Time	**ECD A RTX CLPesticides**
Sample ID	pest 0.07 (4-w-ah-222-3)
Filename	C:\Chrom231\PE#9\public\050900p9.005
Date	5/9/2000 19:24:12

Start Time	**ECD A RTX CLPesticides**
Sample ID	pest 0.1 (4-w-ah-222-3)
Filename	C:\Chrom231\PE#9\public\050900p9.006
Date	5/9/2000 20:04:27

Start Time	**ECD A RTX CLPesticides**
Sample ID	pest 0.15 (4-w-ah-222-3)
Filename	C:\Chrom231\PE#9\public\050900p9.007
Date	5/9/2000 20:44:51

Start Time	**ECD A RTX CLPesticides**
Sample ID	toxaphene 1.0(4-w-ah-86-6)

Sequence Summary Report

Sequence : C:\Chrom231\Sequence\050900p9.seq
User : System
Created : 5/11/2000 11:29:42

Filename	C:\Chrom231\PE#9\public\050900p9.008
Date	5/9/2000 21:25:10

Start Time	**ECD A RTX CLPesticides**
Sample ID	chlordane 0.5
Filename	C:\Chrom231\PE#9\public\050900p9.009
Date	5/9/2000 22:05:33

Start Time	**ECD A RTX CLPesticides**
Sample ID	breakdown (4-w-ah-117-5) CR pest verify 0.05
Filename	C:\Chrom231\PE#9\public\050900p9.010
Date	5/9/2000 22:45:50

Start Time	**ECD A RTX CLPesticides**
Sample ID	pest verify 0.05
Filename	C:\Chrom231\PE#9\public\050900p9.011
Date	5/9/2000 23:26:03

Start Time	**ECD A RTX CLPesticides**
Sample ID	12306 ssp
Filename	C:\Chrom231\PE#9\public\050900p9.012
Date	5/10/2000 00:06:21

Start Time	**ECD A RTX CLPesticides**
Sample ID	12307 ssp
Filename	C:\Chrom231\PE#9\public\050900p9.013
Date	5/10/2000 00:46:38

Start Time	**ECD A RTX CLPesticides**
Sample ID	58004
Filename	C:\Chrom231\PE#9\public\050900p9.014
Date	5/10/2000 01:26:54

Start Time	**ECD A RTX CLPesticides**
Sample ID	58005
Filename	C:\Chrom231\PE#9\public\050900p9.015
Date	5/10/2000 02:07:30

Sequence Summary Report

Sequence : C:\Chrom231\Sequence\050900p9.seq
User : System
ted : 5/11/2000 11:29:42

Start Time	**ECD A RTX CLPesticides**
Sample ID	58006
Filename	C:\Chrom231\PE#9\public\050900p9.016
Date	5/10/2000 02:47:44

Start Time	**ECD A RTX CLPesticides**
Sample ID	58007
Filename	C:\Chrom231\PE#9\public\050900p9.017
Date	5/10/2000 03:27:55

Start Time	**ECD A RTX CLPesticides**
Sample ID	58008
Filename	C:\Chrom231\PE#9\public\050900p9.018
Date	5/10/2000 04:08:12

Start Time	**ECD A RTX CLPesticides**
Sample ID	58009
Filename	C:\Chrom231\PE#9\public\050900p9.019
Date	5/10/2000 04:48:25

Start Time	**ECD A RTX CLPesticides**
Sample ID	58010
Filename	C:\Chrom231\PE#9\public\050900p9.020
Date	5/10/2000 05:28:40

Start Time	**ECD A RTX CLPesticides**
Sample ID	58011
Filename	C:\Chrom231\PE#9\public\050900p9.021
Date	5/10/2000 06:08:52

Start Time	**ECD A RTX CLPesticides**
Sample ID	breakdown (4-w-ah-117-5) CR pest verify 0.05
'lename	C:\Chrom231\PE#9\public\050900p9.022
ate	5/10/2000 06:49:02

Sequence Summary Report

Sequence : C:\Chrom231\Sequence\050900p9.seq
User : System
Created : 5/11/2000 11:29:42

Start Time	**ECD A RTX CLPesticides**
Sample ID	pest 0.05 (4-w-mc-222-3)
Filename	C:\Chrom231\PE#9\public\050900p9.023
Date	5/10/2000 07:29:09

Start Time	**ECD A RTX CLPesticides**
Sample ID	58012
Filename	C:\Chrom231\PE#9\public\050900p9.024
Date	5/10/2000 08:09:26

Start Time	**ECD A RTX CLPesticides**
Sample ID	58013
Filename	C:\Chrom231\PE#9\public\050900p9.025
Date	5/10/2000 08:49:30

Start Time	**ECD A RTX CLPesticides**
Sample ID	58073
Filename	C:\Chrom231\PE#9\public\050900p9.026
Date	5/10/2000 09:30:10

Start Time	**ECD A RTX CLPesticides**
Sample ID	12305 sbp
Filename	C:\Chrom231\PE#9\public\050900p9.027
Date	5/10/2000 10:10:20

Start Time	**ECD A RTX CLPesticides**
Sample ID	13360 lcs
Filename	C:\Chrom231\PE#9\public\050900p9.028
Date	5/10/2000 10:50:46

Start Time	**ECD A RTX CLPesticides**
Sample ID	breakdown (4-w-ah-117-5) CR pest verify 0.05
Filename	C:\Chrom231\PE#9\public\050900p9.029
Date	5/10/2000 11:31:41

Start Time	**ECD A RTX CLPesticides**

Sequence Summary Report

Sequence : C:\Chrom231\Sequence\050900p9.seq
User : System
Created : 5/11/2000 11:29:42

Sample ID	pest 0.05 (4-w-mc-222-3)
Filename	C:\Chrom231\PE#9\public\050900p9.030
Date	5/10/2000 12:12:03

Start Time	**ECD A RTX CLPesticides**
Sample ID	
Filename	
Date	
	Min
	0.00

Start Time	**ECD A RTX CLPesticides**
Sample ID	
Filename	
Date	
	Max
	0.00

Start Time	**ECD A RTX CLPesticides**
Sample ID	
Filename	
Date	
	Mean
	0.00

Start Time	**ECD A RTX CLPesticides**
Sample ID	
Filename	
Date	
	Std Dev
	0.000

Start Time	**ECD A RTX CLPesticides**
Sample ID	
Filename	
Date	
	%RSD
	0.000

PESTICIDES SW846/8081

RAW DATA

SPECIALIZED ASSAYS, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264716

Matrix: Soil
% Dry Weight: 87.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8081
Delivery Group: 189955
Instrument: PE-9
Grams Extracted: 30.5 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58004
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/10/00
Analysis Time: 1:26
Sample GC Group: 310

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
309-00-2	Aldrin	1.91	U
319-84-6	a-BHC	1.91	U
319-85-7	b-BHC	1.91	U
319-86-8	d-BHC	1.91	U
58-89-9	g-BHC, Lindane	1.91	U
72-54-8	4,4'-DDD	3.83	U
72-55-9	4,4'-DDE	3.83	U
50-29-3	4,4'DDT	3.83	U
60-57-1	Dieldrin	3.83	U
959-98-8	Endosulfan I	1.91	U
33213-65-9	Endosulfan II	3.83	U
1031-07-8	Endosulfan sulfate	3.83	U
72-20-8	Endrin	3.83	U
7421-93-4	Endrin aldehyde	3.83	U
53494-70-5	Endrin Ketone	3.83	U
76-44-8	Heptachlor	1.91	U
111024-57-3	Heptachlor epoxide	1.91	U
72-43-5	Methoxychlor	19.1	U
8001-35-2	Toxaphene	191	U
5103-71-9	alpha-Chlordane	1.91	U
5103-74-2	gamma-Chlordane	1.91	U

COPY 1

Specialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

ile Name : C:\Chrom231\PE#9\public\050900p9.014
ar ple Name : 58004
qu ed : 5/10/2000 01:26:54
Methr C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
TCMX	7.92	381536	0.0441
alpha-BHC	9.41	43078	0.0022
Lindane	10.11	8833	0.0005
beta-BHC	10.35	71607	0.0085
delta-BHC			0.0000 BDL
Heptachlor	11.23	26341	0.0015
Aldrin	11.84	20592	0.0012
Heptachlor epoxide			0.0000 BDL
gamma-Chlordane	13.40	147540	0.0097
alpha-chlordane	13.71	14778	0.0010
Endosulfan I	13.87	43289	0.0032
4,4'-DDE	13.94	29369	0.0020
Dieldrin	14.43	87104	0.0064
Endrin			0.0000 BDL
4,4'-DDD	15.04	127734	0.0128
Endosulfan II	15.41	81803	0.0067
4,4'-DDT	15.62	86618	0.0085
Endrin aldehyde	16.12	84207	0.0097
Methoxychlor	16.60	69470	0.0123
Endosulfan sulfate	16.98	63951	0.0059
Endrin ketone	17.50	115516	0.0097
DCB	19.51	368989	0.0490

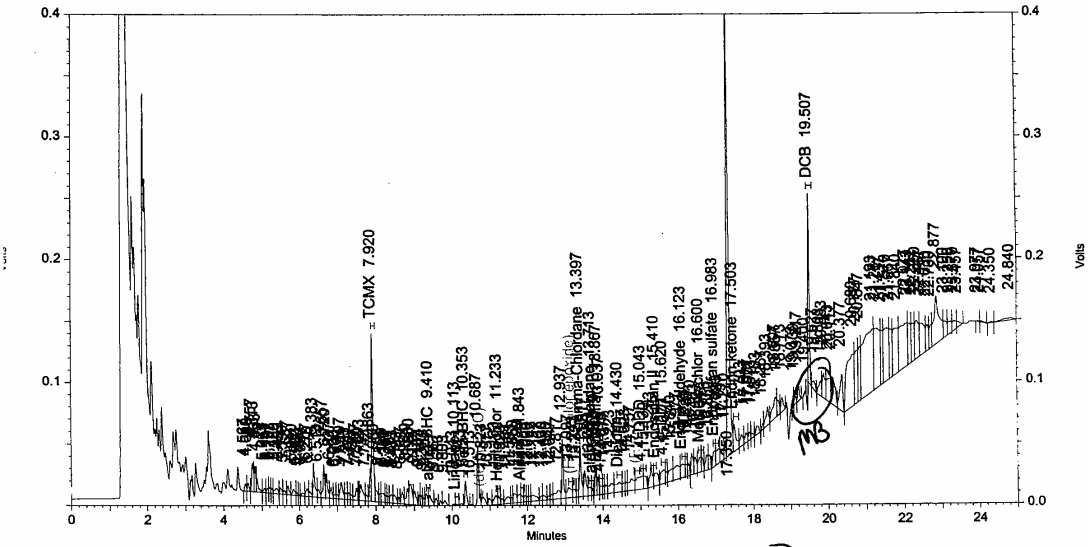
Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
TCMX	8.34	556858	0.0364
alpha-BHC			0.0000 BDL
Lindane	10.79	5766	0.0003
beta-BHC	10.98	2497	0.0002
delta-BHC			0.0000 BDL
Heptachlor	11.75	19570	0.0010
Aldrin	12.50	132353	0.0072
Heptachlor epoxide			0.0000 BDL
gamma-Chlordane	14.02	15453	0.0010
alpha-Chlordane	14.39	42892	0.0027
Endosulfan I	14.45	18663	0.0013
4,4'-DDE	14.74	89919	0.0062
Dieldrin	15.00	63247	0.0044
Endrin	15.67	31737	0.0024
4,4'-DDD	15.89	18946	0.0017
Endosulfan II	16.13	26147	0.0021
4,4'-DDT	16.50	7464	0.0007
Endrin aldehyde	16.72	14159	0.0015
Endoulfan sulfate	17.24	12013	0.0010
Methoxychlor			0.0000 BDL
Endrin Ketone	18.27	206107	0.0167
DCB	20.68	460502	0.0561

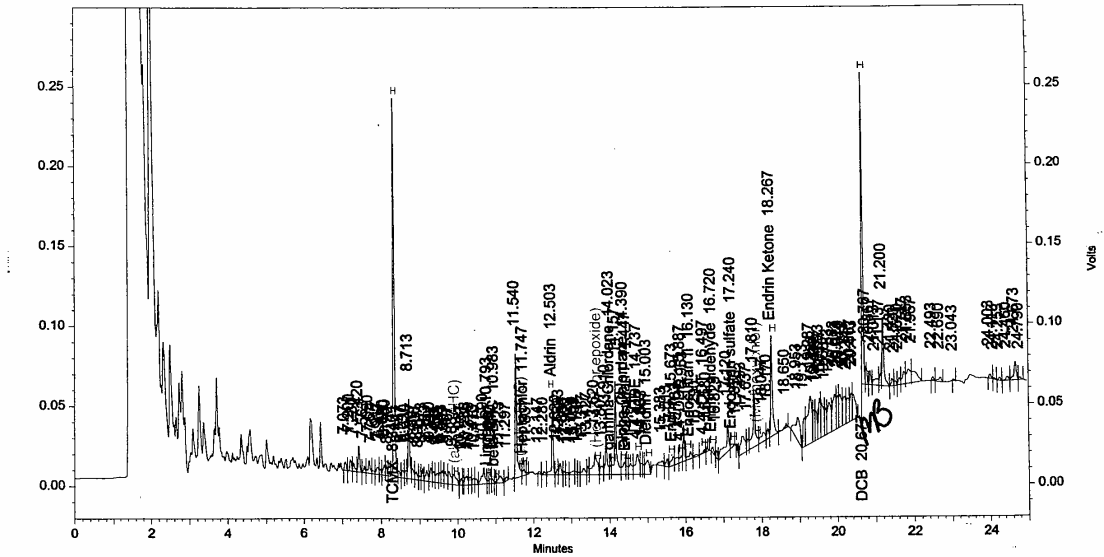
S[ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.014
Sa ple Name : 58004
Aq red : 5/10/2000 01:26:54
Meth · · C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.5 um)



Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)



SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264717

Matrix: Soil
% Dry Weight: 57.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8081
Delivery Group: 189955
Instrument: PE-9
Grams Extracted: 30.5 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58005
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/10/00
Analysis Time: 2:07
Sample GC Group: 310

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
309-00-2	Aldrin	2.91	U
319-84-6	a-BHC	2.91	U
319-85-7	b-BHC	2.91	U
319-86-8	d-BHC	2.91	U
58-89-9	g-BHC, Lindane	2.91	U
72-54-8	4,4'-DDD	5.84	U
72-55-9	4,4'-DDE	5.84	U
50-29-3	4,4'DDT	5.84	U
60-57-1	Dieldrin	5.84	U
959-98-8	Endosulfan I	2.91	U
33213-65-9	Endosulfan II	5.84	U
1031-07-8	Endosulfan sulfate	5.84	U
72-20-8	Endrin	5.84	U
7421-93-4	Endrin aldehyde	5.84	U
53494-70-5	Endrin Ketone	5.84	U
76-44-8	Heptachlor	2.91	U
111024-57-3	Heptachlor epoxide	2.91	U
72-43-5	Methoxychlor	29.2	U
8001-35-2	Toxaphene	292	U
5103-71-9	alpha-Chlordane	2.91	U
5103-74-2	gamma-Chlordane	2.91	U

COPY 1

S ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.015
Sa ple Name : 58005
Ac red : 5/10/2000 02:07:30
Meth : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
T MX	7.92	406843	0.0470
alpha-BHC	9.41	49709	0.0025
L dane	10.13	19004	0.0010
ta-BHC	10.35	68659	0.0082
delta-BHC	10.79	103473	0.0053
Heptachlor	11.24	35745	0.0020
drin	11.84	34961	0.0021
eptachlor epoxide	13.17	44186	0.0030
gamma-Chlordane	13.40	124724	0.0082
pha-chlordane	13.66	81596	0.0055
dosulfan I	13.87	85213	0.0064
4,4'-DDE	13.93	55025	0.0037
eldrin	14.42	90310	0.0066
drin			0.0000 BDL
4,4'-DDD	15.05	89653	0.0090
Endosulfan II	15.41	93867	0.0077
4'-DDT	15.60	110766	0.0108
drin aldehyde	16.17	33281	0.0038
Methoxychlor	16.65	41017	0.0072
dosulfan sulfate	16.97	55230	0.0051
ketone	17.50	103435	0.0087
DCB	19.51	488798	0.0649

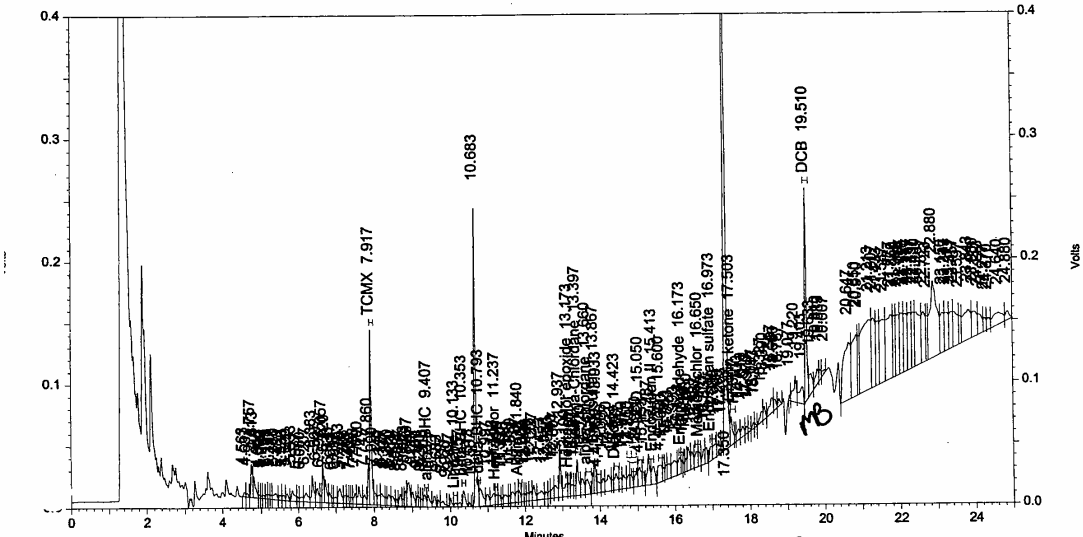
C annel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
CMX	8.34	592344	0.0387
pha-BHC	9.97	11867	0.0005
Lindane			0.0000 BDL
eta-BHC			0.0000 BDL
elta-BHC			0.0000 BDL
Heptachlor	11.81	3313	0.0002
Aldrin	12.50	108778	0.0059
eptachlor epoxide	13.69	20733	0.0013
gamma-Chlordane	14.06	55935	0.0035
alpha-Chlordane	14.36	52120	0.0033
ndosulfan I	14.54	42662	0.0029
,4'-DDE	14.74	142216	0.0099
Dieldrin	15.00	76329	0.0053
ndrin	15.67	51122	0.0038
,4'-DDD	15.89	41062	0.0036
Endosulfan II	16.07	29100	0.0023
4,4'-DDT	16.50	86579	0.0077
ndrin aldehyde	16.72	75996	0.0078
ndoulfan sulfate	17.25	70647	0.0061
M xychlor			0.0000 BDL
n Ketone	18.27	289814	0.0234
DCB	20.68	438525	0.0534

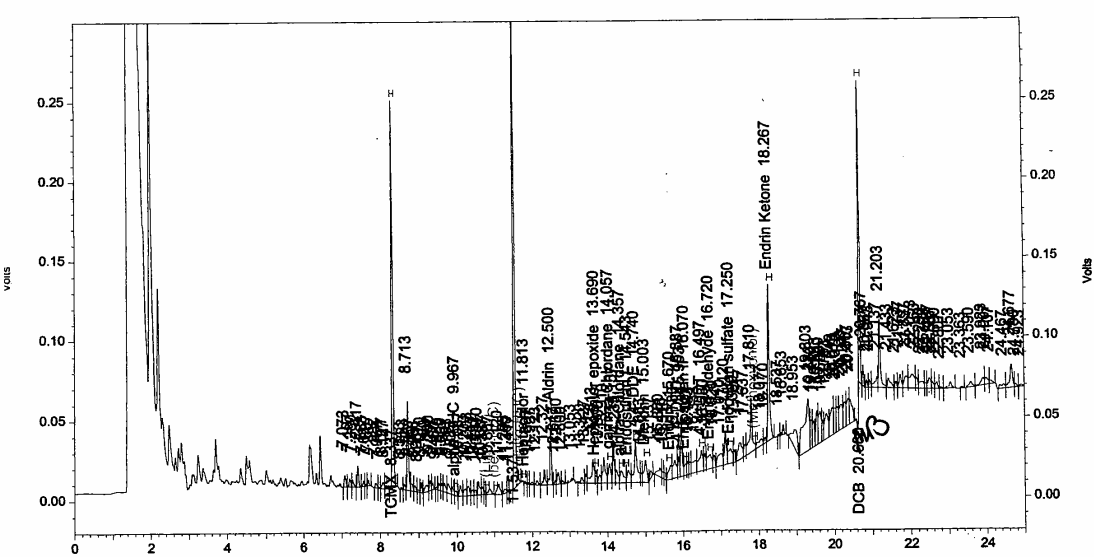
Specialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.015
Sample Name : 58005
Acquired : 5/10/2000 02:07:30
Method : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.5 um)



Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)



SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264718

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8081
Delivery Group: 189955
Instrument: PE-9
Grams Extracted: 29.8 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58006
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/10/00
Analysis Time: 2:47
Sample QC Group: 310

Extraction Date: 5/ 2/00

FORM I

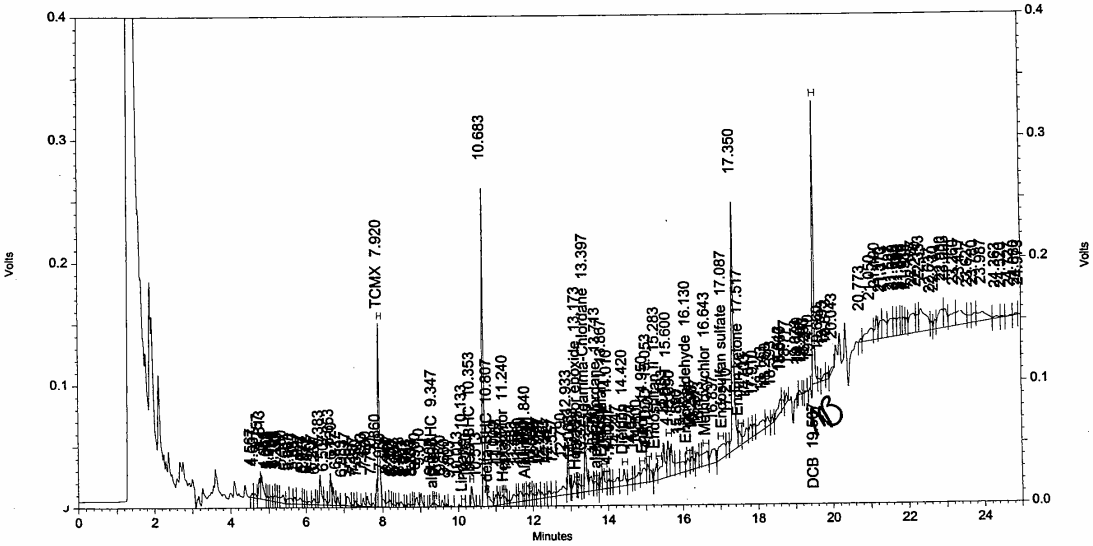
CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
309-00-2	Aldrin	1.98	U
319-84-6	a-BHC	1.98	U
319-85-7	b-BHC	1.98	U
319-86-8	d-BHC	1.98	U
58-89-9	g-BHC, Lindane	1.98	U
72-54-8	4,4'-DDD	3.96	U
72-55-9	4,4'-DDE	3.96	U
50-29-3	4,4'DDT	3.96	U
60-57-1	Dieldrin	3.96	U
959-98-8	Endosulfan I	1.98	U
33213-65-9	Endosulfan II	3.96	U
1031-07-8	Endosulfan sulfate	3.96	U
72-20-8	Endrin	3.96	U
7421-93-4	Endrin aldehyde	3.96	U
53494-70-5	Endrin Ketone	3.96	U
76-44-8	Heptachlor	1.98	U
111024-57-3	Heptachlor epoxide	1.98	U
72-43-5	Methoxychlor	19.8	U
8001-35-2	Toxaphene	198	U
5103-71-9	alpha-Chlordane	1.98	U
5103-74-2	gamma-Chlordane	1.98	U

COPY 1

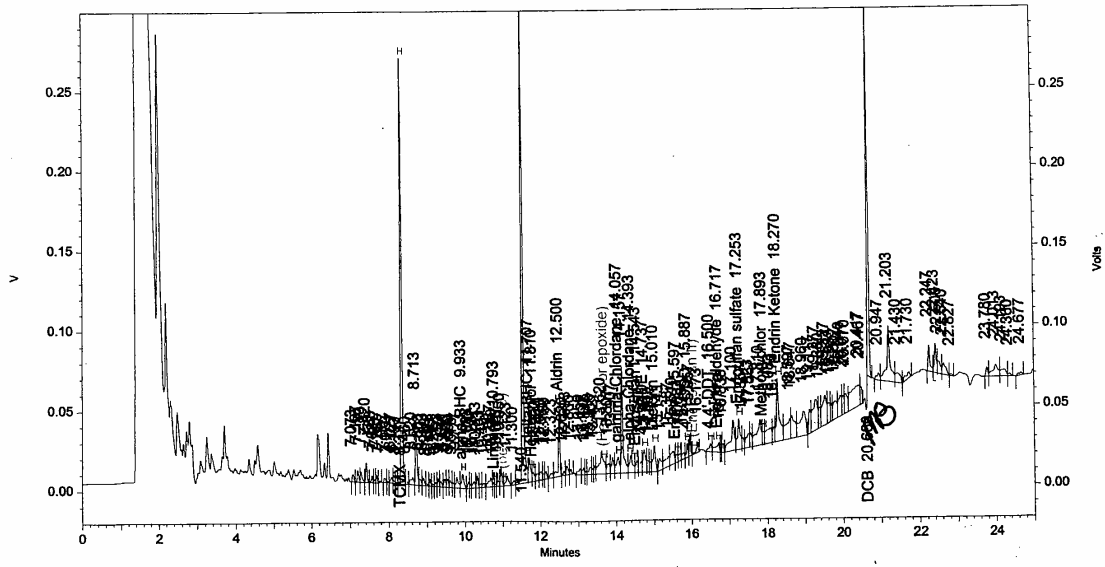
Specialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.016
Sample Name : 58006
Acquired : 5/10/2000 02:47:44
Method : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.5 um)



Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)



S[ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

ile Name : C:\Chrom231\PE#9\public\050900p9.016
ia ple Name : 58006
q red : 5/10/2000 02:47:44
Meth : C:\Chrom231\Methods\pest PE#9DOC.met

hannel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.25 um)

N me	Retention Time	Area	ESTD concentration
T MX	7.92	408611	0.0472
alpha-BHC	9.35	9248	0.0005
L dane	10.13	4035	0.0002
b a-BHC	10.35	61119	0.0073
delta-BHC	10.81	50447	0.0026
Heptachlor	11.24	23448	0.0013
A rin	11.84	21158	0.0012
Heptachlor epoxide	13.17	16392	0.0011
gamma-Chlordane	13.40	179334	0.0118
a ha-chlordane	13.71	14114	0.0009
E dosulfan I	13.87	62850	0.0047
4,4'-DDE	14.01	28934	0.0019
Dieldrin	14.42	78402	0.0057
E drin	14.95	106322	0.0080
4,4'-DDD	15.05	61906	0.0062
Endosulfan II	15.28	60978	0.0050
4 '-DDT	15.60	119070	0.0117
E drin aldehyde	16.13	59480	0.0068
Methoxychlor	16.64	110599	0.0195
F dosulfan sulfate	17.09	153024	0.0141
E ketone	17.52	59945	0.0050
DCB	19.51	617318	0.0820

C annel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
CMX	8.34	660891	0.0432
pha-BHC	9.93	40327	0.0018
Lindane	10.79	4431	0.0002
ta-BHC			0.0000 BDL
lta-BHC	11.71	62935	0.0030
Heptachlor	11.81	22728	0.0012
Aldrin	12.50	119294	0.0065
eptachlor epoxide			0.0000 BDL
amma-Chlordane	14.06	61423	0.0038
alpha-Chlordane	14.39	68282	0.0043
ndosulfan I	14.54	32630	0.0022
4'-DDE	14.74	73857	0.0051
Dieldrin	15.01	78822	0.0055
Endrin	15.60	21581	0.0016
4'-DDD	15.89	25279	0.0022
Endosulfan II			0.0000 BDL
4,4'-DDT	16.50	25917	0.0023
ndrin aldehyde	16.72	43150	0.0044
ndoulfan sulfate	17.25	99289	0.0085
Me xychlor	17.89	28613	0.0046
Ke Ketone	18.27	206017	0.0167
CB	20.68	568372	0.0692

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264719

Matrix: Soil
% Dry Weight: 81.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8081
Delivery Group: 189955
Instrument: PE-9
Grams Extracted: 29.7 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58007
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/10/00
Analysis Time: 3:27
Sample QC Group: 310

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
309-00-2	Aldrin	2.05	U
319-84-6	a-BHC	2.05	U
319-85-7	b-BHC	2.05	U
319-86-8	d-BHC	2.05	U
58-89-9	g-BHC, Lindane	2.05	U
72-54-8	4,4'-DDD	4.11	U
72-55-9	4,4'-DDE	4.11	U
50-29-3	4,4'DDT	4.11	U
60-57-1	Dieldrin	4.11	U
959-98-8	Endosulfan I	2.05	U
33213-65-9	Endosulfan II	4.11	U
1031-07-8	Endosulfan sulfate	4.11	U
72-20-8	Endrin	4.11	U
7421-93-4	Endrin aldehyde	4.11	U
53494-70-5	Endrin Ketone	4.11	U
76-44-8	Heptachlor	2.05	U
111024-57-3	Heptachlor epoxide	2.05	U
72-43-5	Methoxychlor	20.6	U
8001-35-2	Toxaphene	206	U
5103-71-9	alpha-Chlordane	2.05	U
5103-74-2	gamma-Chlordane	2.05	U

S ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.017
Sa ple Name : 58007
Ac red : 5/10/2000 03:27:55
Meth C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
T MX	7.91	336156	0.0389
alpha-BHC	9.38	7869	0.0004
L dane	10.11	6569	0.0004
b a-BHC	10.35	53480	0.0064
delta-BHC	10.79	35193	0.0018
Heptachlor	11.22	23171	0.0013
A lrin	11.83	27142	0.0016
Heptachlor epoxide	13.16	30573	0.0020
gamma-Chlordane	13.39	112142	0.0074
a ha-chlordane	13.64	84626	0.0057
E dosulfan I	13.86	88623	0.0067
4,4'-DDE	14.00	51458	0.0035
D eldrin	14.41	72768	0.0053
I drin	14.95	61584	0.0046
4,4'-DDD	15.11	31290	0.0031
Endosulfan II	15.38	55889	0.0046
4 4'-DDT	15.59	122000	0.0119
L drin aldehyde	16.22	38436	0.0044
Methoxychlor	16.63	81296	0.0144
I dosulfan sulfate			0.0000 BDL
1 ketone	17.50	61475	0.0052
DCB	19.49	436266	0.0579

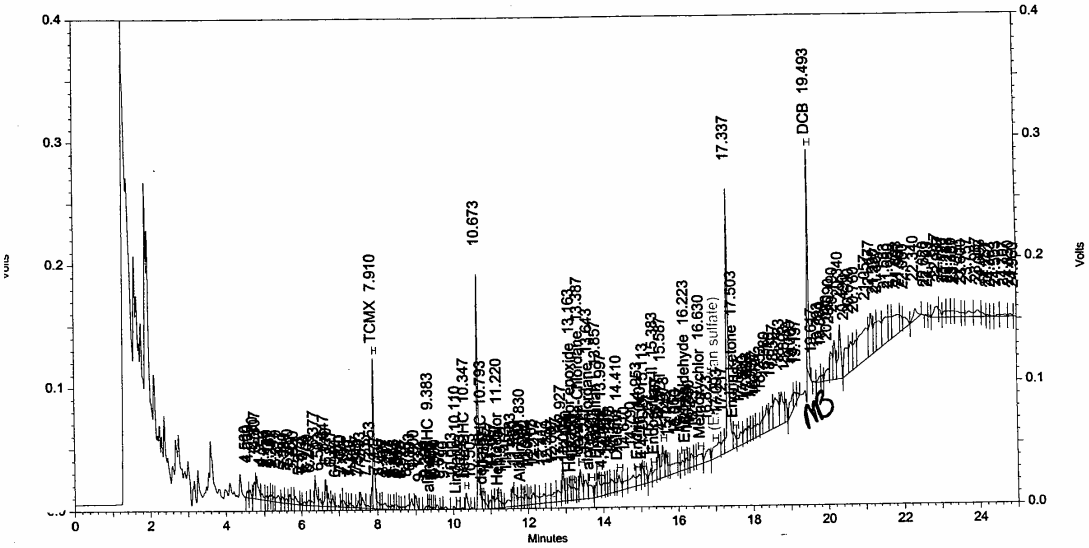
C annel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
CMX	8.33	525087	0.0343
pha-BHC	9.92	46794	0.0021
Lindane			0.0000 BDL
eta-BHC			0.0000 BDL
elta-BHC	11.70	53859	0.0026
Heptachlor	11.80	26269	0.0014
Aldrin	12.49	99794	0.0054
eptachlor epoxide	13.68	11573	0.0007
gamma-Chlordane	14.04	27755	0.0017
alpha-Chlordane	14.38	17487	0.0011
ndosulfan I			0.0000 BDL
,4'-DDE	14.73	40060	0.0028
Dieldrin	15.00	52871	0.0037
ndrin	15.68	20483	0.0015
,4'-DDD	15.94	29840	0.0026
Endosulfan II			0.0000 BDL
4,4'-DDT	16.48	22926	0.0020
ndrin aldehyde	16.70	10799	0.0011
ndoulfan sulfate	17.24	55304	0.0048
Mr xychlor			0.0000 BDL
n Ketone	18.26	133116	0.0108
CB	20.67	454491	0.0554

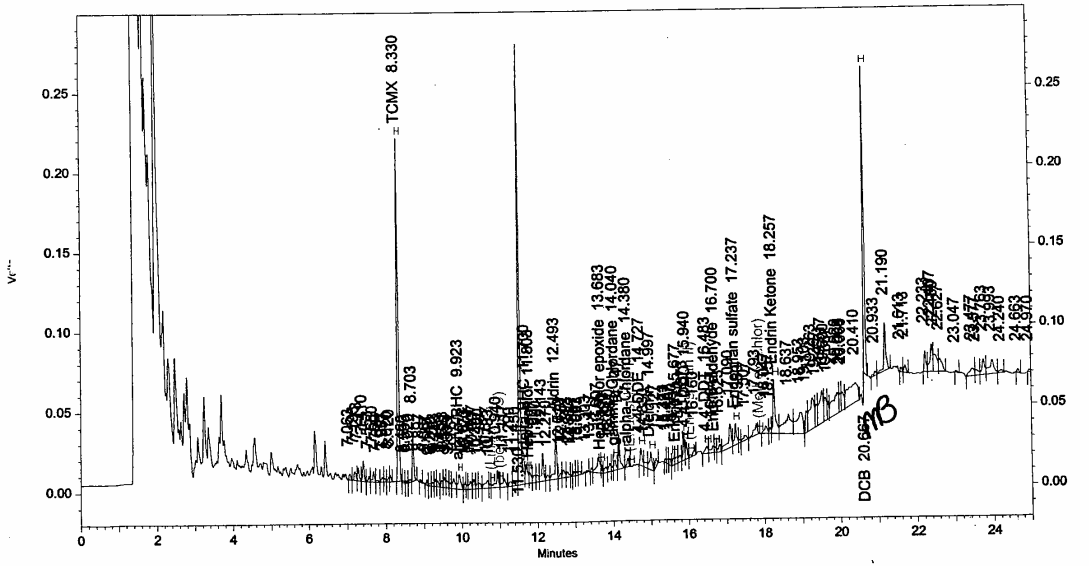
S ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

ile Name : C:\Chrom231\PE#9\public\050900p9.017
Sa ple Name : 58007
\q red : 5/10/2000 03:27:55
Meth C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.5 um)



Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)



SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264720

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8081
Delivery Group: 189955
Instrument: PE-9
Grams Extracted: 30.7 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58008
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/10/00
Analysis Time: 4:08
Sample QC Group: 310

Extraction Date: 5/ 2/00

FORM I

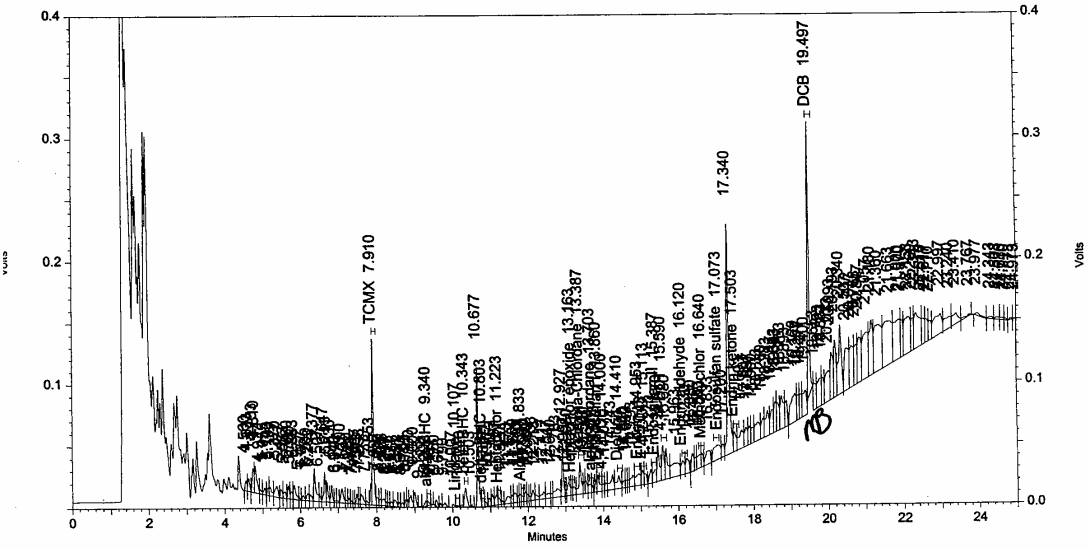
CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
309-00-2	Aldrin	1.98	U
319-84-6	a-BHC	1.98	U
319-85-7	b-BHC	1.98	U
319-86-8	d-BHC	1.98	U
58-89-9	g-BHC, Lindane	1.98	U
72-54-8	4,4'-DDD	3.96	U
72-55-9	4,4'-DDE	3.96	U
50-29-3	4,4'DDT	3.96	U
60-57-1	Dieldrin	3.96	U
959-98-8	Endosulfan I	1.98	U
33213-65-9	Endosulfan II	3.96	U
1031-07-8	Endosulfan sulfate	3.96	U
72-20-8	Endrin	3.96	U
7421-93-4	Endrin aldehyde	3.96	U
53494-70-5	Endrin Ketone	3.96	U
76-44-8	Heptachlor	1.98	U
111024-57-3	Heptachlor epoxide	1.98	U
72-43-5	Methoxychlor	19.8	U
8001-35-2	Toxaphene	198	U
5103-71-9	alpha-Chlordane	1.98	U
5103-74-2	gamma-Chlordane	1.98	U

COPY 1

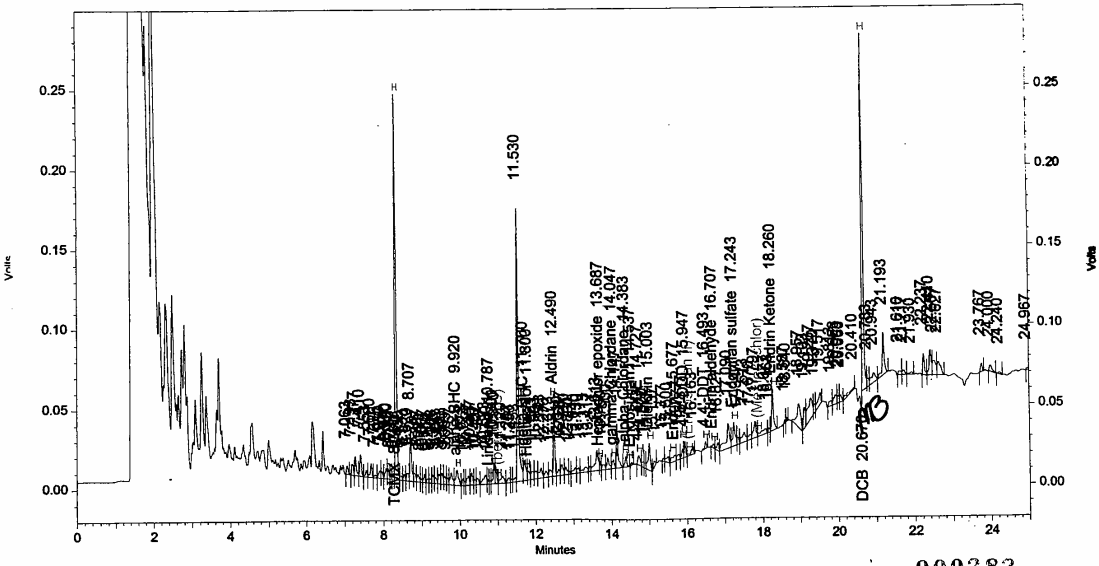
Specialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.018
Sample Name : 58008
Acquired : 5/10/2000 04:08:12
Method : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.5 um)



Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)



Specialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.018
Sample Name : 58008
Acquired : 5/10/2000 04:08:12
Method : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
TCMX	7.91	370469	0.0428
alpha-BHC	9.34	13933	0.0007
Lindane	10.11	10826	0.0006
beta-BHC	10.34	82806	0.0099
delta-BHC	10.80	32004	0.0016
Heptachlor	11.22	22178	0.0012
Aldrin	11.83	18058	0.0011
Heptachlor epoxide	13.16	17556	0.0012
gamma-Chlordane	13.39	119581	0.0078
alpha-chlordane	13.70	15506	0.0010
Endosulfan I	13.86	62781	0.0047
4,4'-DDE	14.00	24034	0.0016
Dieldrin	14.41	76523	0.0056
Endrin	14.95	84808	0.0064
4,4'-DDD	15.11	42041	0.0042
Endosulfan II	15.39	59670	0.0049
4,4'-DDT	15.59	113830	0.0111
Endrin aldehyde	16.12	69109	0.0079
Methoxychlor	16.64	38996	0.0069
Endosulfan sulfate	17.07	154123	0.0142
Endrin ketone	17.50	80778	0.0068
DCB	19.50	594432	0.0789

Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
TCMX	8.33	589766	0.0385
alpha-BHC	9.92	49144	0.0022
Lindane	10.79	6177	0.0003
beta-BHC			0.0000 BDL
delta-BHC	11.70	57685	0.0028
Heptachlor	11.80	23448	0.0012
Aldrin	12.49	115461	0.0063
Heptachlor epoxide	13.69	15003	0.0009
gamma-Chlordane	14.05	23444	0.0015
alpha-Chlordane	14.38	23383	0.0015
Endosulfan I	14.54	5203	0.0004
4,4'-DDE	14.73	25949	0.0018
Dieldrin	15.00	69094	0.0048
Endrin	15.68	26707	0.0020
4,4'-DDD	15.95	26586	0.0023
Endosulfan II			0.0000 BDL
4,4'-DDT	16.49	12899	0.0011
Endrin aldehyde	16.71	8738	0.0009
Endoulfan sulfate	17.24	68166	0.0059
Methoxychlor			0.0000 BDL
Endrin Ketone	18.26	85453	0.0069
DCB	20.67	581785	0.0709

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264721

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8081
Delivery Group: 189955
Instrument: PE-9
Grams Extracted: 29.9 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58009
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/10/00
Analysis Time: 4:46
Sample GC Group: 310

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
309-00-2	Aldrin	1.98	U
319-84-6	a-BHC	1.98	U
319-85-7	b-BHC	1.98	U
319-86-8	d-BHC	1.98	U
58-89-9	g-BHC, Lindane	1.98	U
72-54-8	4,4'-DDD	3.96	U
72-55-9	4,4'-DDE	3.96	U
50-29-3	4,4'DDT	3.96	U
60-57-1	Dieldrin	3.96	U
959-98-8	Endosulfan I	1.98	U
33213-65-9	Endosulfan II	3.96	U
1031-07-8	Endosulfan sulfate	3.96	U
72-20-8	Endrin	3.96	U
7421-93-4	Endrin aldehyde	3.96	U
53494-70-5	Endrin Ketone	3.96	U
76-44-8	Heptachlor	1.98	U
111024-57-3	Heptachlor epoxide	1.98	U
72-43-5	Methoxychlor	19.8	U
8001-35-2	Toxaphene	198	U
5103-71-9	alpha-Chlordane	1.98	U
5103-74-2	gamma-Chlordane	1.98	U

S ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.019
Sa ple Name : 58009
Ac ired : 5/10/2000 04:48:25
Meth C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
TCMX	7.91	343622	0.0397
alpha-BHC	9.39	13500	0.0007
Lindane	10.11	11785	0.0006
beta-BHC	10.35	74296	0.0088
delta-BHC	10.80	69445	0.0036
Heptachlor	11.23	26668	0.0015
Aldrin	11.84	29274	0.0017
Heptachlor epoxide	13.22	37226	0.0025
gamma-Chlordane	13.39	158270	0.0104
alpha-chlordane	13.65	53170	0.0036
Endosulfan I	13.93	16978	0.0013
4,4'-DDE	14.00	17462	0.0012
Dieldrin	14.42	53528	0.0039
Endrin	14.96	20556	0.0015
4,4'-DDD	15.05	24486	0.0025
Endosulfan II	15.39	60245	0.0050
4,4'-DDT	15.59	121201	0.0119
Endrin aldehyde	16.12	63601	0.0073
Methoxychlor	16.65	111073	0.0196
Endosulfan sulfate	16.98	62829	0.0058
Endrin ketone	17.51	91870	0.0077
DCB	19.50	452858	0.0601

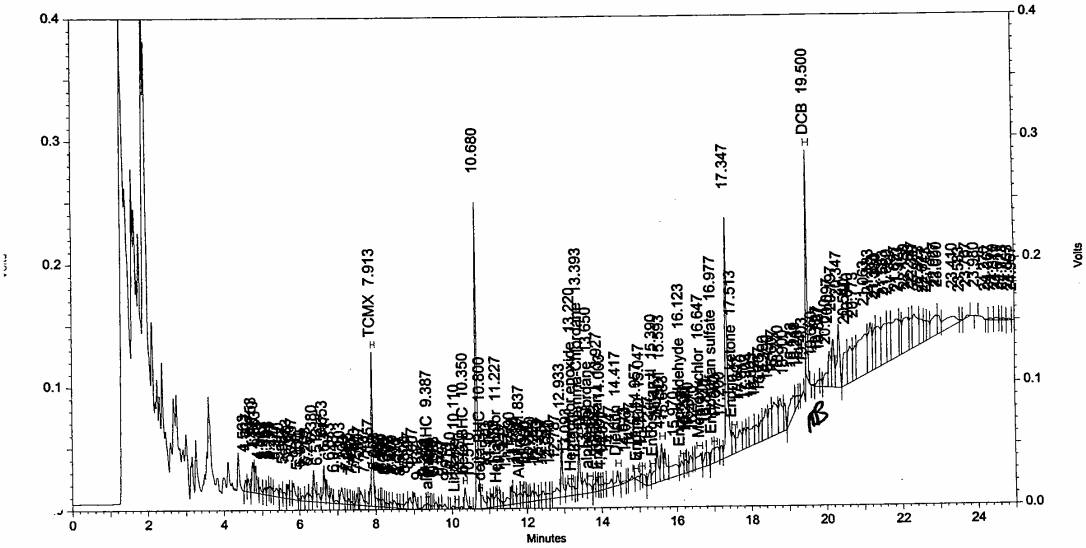
Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
TCMX	8.33	541279	0.0353
alpha-BHC	9.93	51051	0.0023
Lindane			0.0000 BDL
beta-BHC			0.0000 BDL
delta-BHC	11.71	60364	0.0029
Heptachlor	11.81	27251	0.0015
Aldrin	12.50	116772	0.0063
Heptachlor epoxide	13.69	19471	0.0012
gamma-Chlordane	14.05	42133	0.0026
alpha-Chlordane	14.39	65225	0.0041
Endosulfan I	14.54	33129	0.0023
4,4'-DDE	14.72	91616	0.0064
Dieldrin	15.01	85583	0.0060
Endrin	15.68	29177	0.0022
4,4'-DDD	15.88	16155	0.0014
Endosulfan II			0.0000 BDL
4,4'-DDT	16.50	12056	0.0011
Endrin aldehyde	16.71	5180	0.0005
Endoulfan sulfate	17.25	71821	0.0062
Methoxychlor			0.0000 BDL
Endrin Ketone	18.26	97591	0.0079
DCB	20.67	485695	0.0592

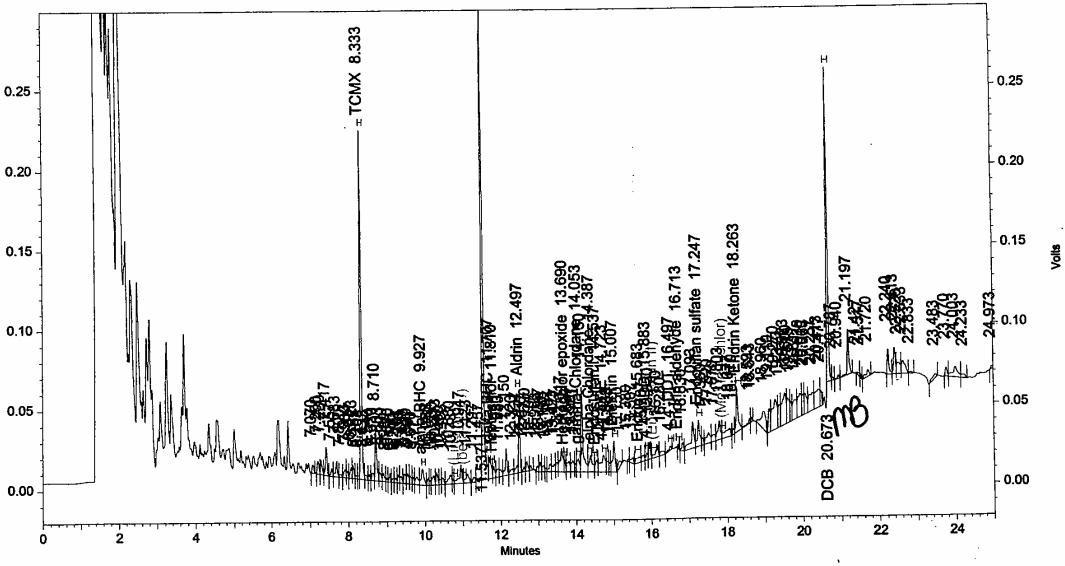
S_ ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.019
Sa ple Name : 58009
Ac red : 5/10/2000 04:48:25
Meth · C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.5 um)



Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)



SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264722

Matrix: Soil
% Dry Weight: 86.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8081
Delivery Group: 189955
Instrument: PE-9
Grams Extracted: 30.2 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58010
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/10/00
Analysis Time: 5:28
Sample QC Group: 310

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
309-00-2	Aldrin	1.93	U
319-84-6	a-BHC	1.93	U
319-85-7	b-BHC	1.93	U
319-86-8	d-BHC	1.93	U
58-89-9	g-BHC, Lindane	1.93	U
72-54-8	4,4'-DDD	3.87	U
72-55-9	4,4'-DDE	3.87	U
50-29-3	4,4'DDT	3.87	U
60-57-1	Dieldrin	3.87	U
959-98-8	Endosulfan I	1.93	U
33213-65-9	Endosulfan II	3.87	U
1031-07-8	Endosulfan sulfate	3.87	U
72-20-8	Endrin	3.87	U
7421-93-4	Endrin aldehyde	3.87	U
53494-70-5	Endrin Ketone	3.87	U
76-44-8	Heptachlor	1.93	U
111024-57-3	Heptachlor epoxide	1.93	U
72-43-5	Methoxychlor	19.4	U
8001-35-2	Toxaphene	194	U
5103-71-9	alpha-Chlordane	1.93	U
5103-74-2	gamma-Chlordane	1.93	U

S[illegible]ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

[illegible]ile Name : C:\Chrom231\PE#9\public\050900p9.020
[illegible]a[illegible]ple Name : 58010
[illegible]q[illegible]red : 5/10/2000 05:28:40
[illegible]eth[illegible] : C:\Chrom231\Methods\pest PE#9DOC.met

[illegible]hannel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.25 um)

N[illegible]me	Retention Time	Area	ESTD concentration
T[illegible]MX	7.92	394076	0.0455
alpha-BHC	9.40	41383	0.0021
L[illegible]dane	10.13	4910	0.0003
b[illegible]a-BHC	10.36	26118	0.0031
delta-BHC	10.79	68966	0.0035
Heptachlor	11.23	26279	0.0015
A[illegible]rin			0.0000 BDL
Heptachlor epoxide	13.17	117629	0.0079
gamma-Chlordane	13.39	109943	0.0072
a[illegible]ha-chlordane	13.63	82205	0.0055
E[illegible]dosulfan I	13.86	43964	0.0033
4,4'-DDE	13.96	50777	0.0034
D[illegible]eldrin	14.44	126981	0.0093
E[illegible]drin			0.0000 BDL
4,4'-DDD	15.09	82153	0.0082
Endosulfan II	15.41	103031	0.0085
[illegible]'-DDT	15.61	104551	0.0102
E[illegible]drin aldehyde	16.21	42214	0.0048
Methoxychlor	16.64	43626	0.0077
[illegible]dosulfan sulfate	16.97	74459	0.0069
[illegible] ketone	17.59	47709	0.0040
DCB	19.50	376554	0.0500

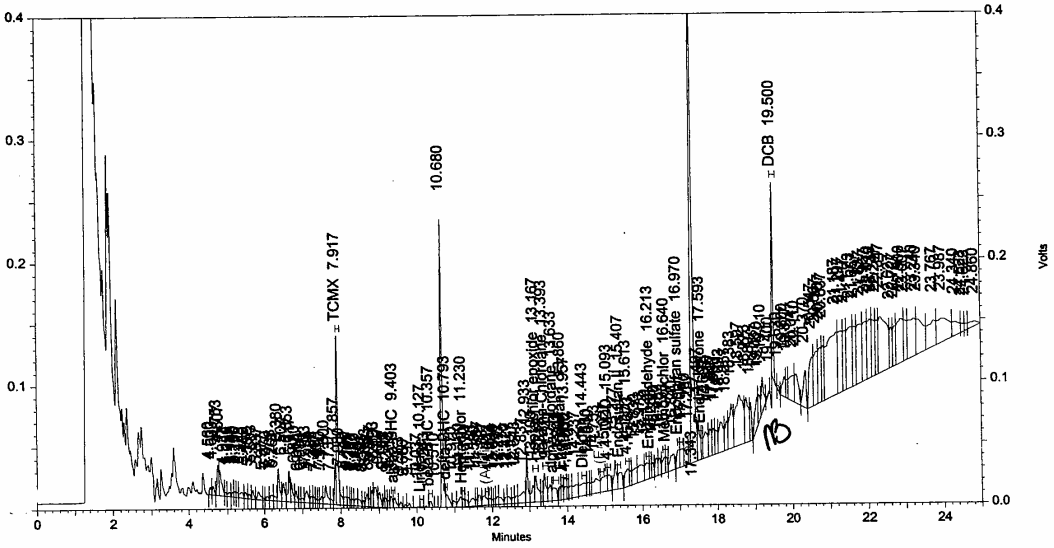
C[illegible]annel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
[illegible]CMX	8.33	581247	0.0380
[illegible]pha-BHC			0.0000 BDL
Lindane			0.0000 BDL
[illegible]ta-BHC			0.0000 BDL
[illegible]lta-BHC			0.0000 BDL
Heptachlor	11.81	4748	0.0003
Aldrin	12.50	92650	0.0050
[illegible]eptachlor epoxide			0.0000 BDL
gamma-Chlordane	14.15	43862	0.0027
alpha-Chlordane	14.38	10242	0.0006
[illegible]ndosulfan I	14.54	12719	0.0009
[illegible]4'-DDE	14.71	19786	0.0014
Dieldrin	15.00	30603	0.0021
[illegible]ndrin	15.67	67352	0.0051
[illegible]4'-DDD	15.95	107244	0.0094
Endosulfan II	16.13	70498	0.0055
4,4'-DDT	16.49	66712	0.0059
[illegible]ndrin aldehyde	16.71	52147	0.0054
[illegible]ndoulfan sulfate			0.0000 BDL
M[illegible]xychlor			0.0000 BDL
[illegible] Ketone	18.26	400498	0.0324
[illegible]CB	20.67	417568	0.0509

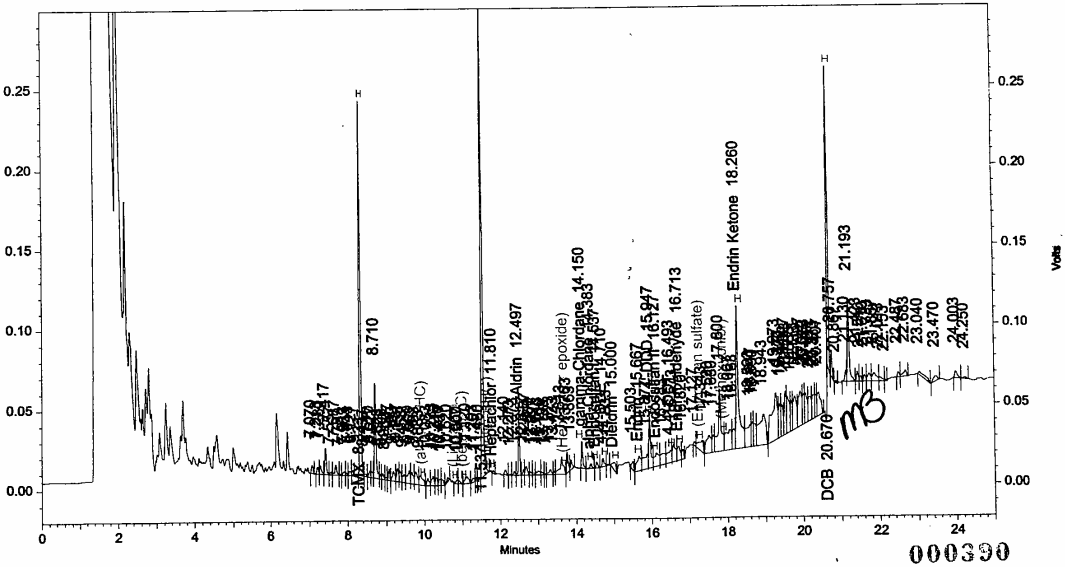
S ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

ile Name : C:\Chrom231\PE#9\public\050900p9.020
a ple Name : 58010
q red : 5/10/2000 05:28:40
lethc C:\Chrom231\Methods\pest PE#9DOC.met

hannel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.5 um)



hannel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)



000390

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264723

Matrix: Soil
% Dry Weight: 87.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8081
Delivery Group: 189955
Instrument: PE-9
Grams Extracted: 30.7 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58011
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/10/00
Analysis Time: 6:08
Sample QC Group: 310

Extraction Date: 5/ 2/00

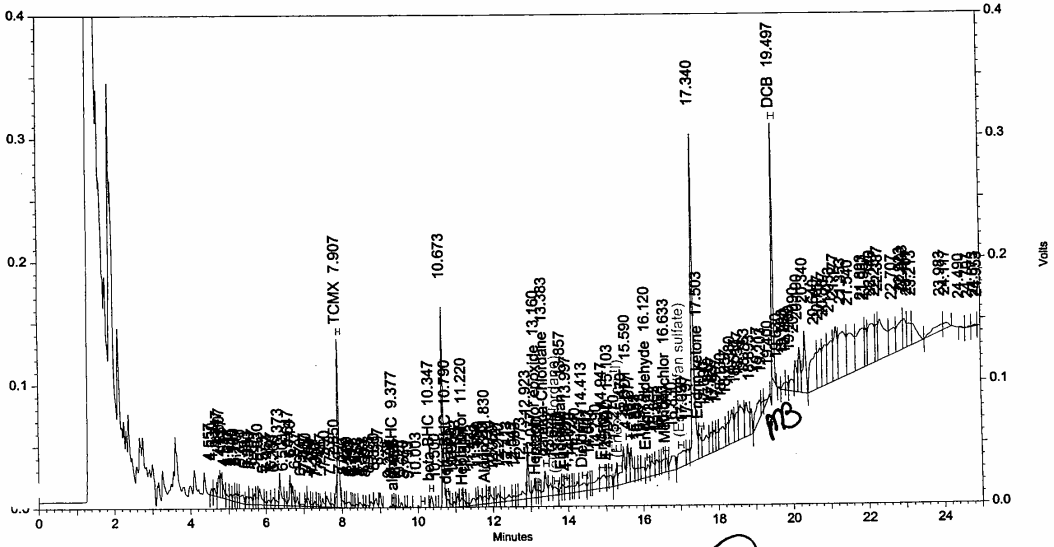
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
309-00-2	Aldrin	1.91	U
319-84-6	a-BHC	1.91	U
319-85-7	b-BHC	1.91	U
319-86-8	d-BHC	1.91	U
58-89-9	g-BHC, Lindane	1.91	U
72-54-8	4,4'-DDD	3.83	U
72-55-9	4,4'-DDE	3.83	U
50-29-3	4,4'DDT	3.83	U
60-57-1	Dieldrin	3.83	U
959-98-8	Endosulfan I	1.91	U
33213-65-9	Endosulfan II	3.83	U
1031-07-8	Endosulfan sulfate	3.83	U
72-20-8	Endrin	3.83	U
7421-93-4	Endrin aldehyde	3.83	U
53494-70-5	Endrin Ketone	3.83	U
76-44-8	Heptachlor	1.91	U
111024-57-3	Heptachlor epoxide	1.91	U
72-43-5	Methoxychlor	19.1	U
8001-35-2	Toxaphene	191	U
5103-71-9	alpha-Chlordane	1.91	U
5103-74-2	gamma-Chlordane	1.91	U

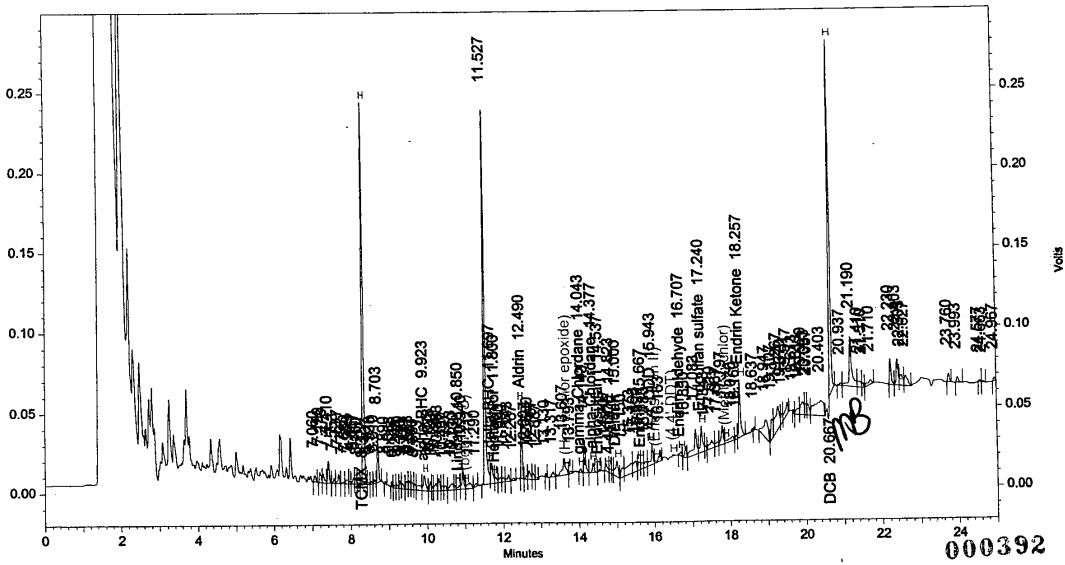
Specialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.021
Sample Name : 58011
Acquired : 5/10/2000 06:08:52
Method : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.5 um)



Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)



ᵢ ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

ile Name : C:\Chrom231\PE#9\public\050900p9.021
ar ᵢle Name : 58011
qu ed : 5/10/2000 06:08:52
lethc C:\Chrom231\Methods\pest PE#9DOC.met

hannel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.25 um)

N ne	Retention Time	Area	ESTD concentration
T MX	7.91	370299	0.0428
alpha-BHC	9.38	6981	0.0004
Li tane			0.0000 BDL
b a-BHC	10.35	38815	0.0046
delta-BHC	10.79	29823	0.0015
Heptachlor	11.22	19388	0.0011
A in	11.83	17490	0.0010
Heptachlor epoxide	13.16	21506	0.0014
gamma-Chlordane	13.38	106188	0.0070
a na-chlordane			0.0000 BDL
E dosulfan I	13.86	30170	0.0023
4,4'-DDE	14.00	43230	0.0029
D ldrin	14.41	68314	0.0050
E drin	14.95	101162	0.0076
4,4'-DDD	15.10	53694	0.0054
Endosulfan II			0.0000 BDL
4 -DDT	15.59	131936	0.0129
E drin aldehyde	16.12	58803	0.0067
Methoxychlor	16.63	39306	0.0069
E dosulfan sulfate			0.0000 BDL
E etone	17.50	101219	0.0085
DCB	19.50	515868	0.0685

C nnel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
T MX	8.33	580269	0.0379
a ha-BHC	9.92	43522	0.0020
Lindane	10.85	10600	0.0005
b ta-BHC			0.0000 BDL
c lta-BHC	11.70	50903	0.0025
Heptachlor	11.80	14843	0.0008
Aldrin	12.49	102380	0.0056
H ptachlor epoxide			0.0000 BDL
gamma-Chlordane	14.04	6227	0.0004
alpha-Chlordane	14.38	18139	0.0011
I dosulfan I	14.54	3064	0.0002
4 4'-DDE	14.82	10904	0.0008
Dieldrin	15.00	52506	0.0037
E drin	15.67	18397	0.0014
4 4'-DDD	15.94	48052	0.0042
Endosulfan II			0.0000 BDL
4,4'-DDT			0.0000 BDL
I drin aldehyde	16.71	8105	0.0008
L doulfan sulfate	17.24	67830	0.0058
Me ychlor			0.0000 BDL
I Ketone	18.26	115814	0.0094
I CB	20.67	552578	0.0673

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264724

Matrix: Soil
% Dry Weight: 81.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8081
Delivery Group: 189955
Instrument: PE-9
Grams Extracted: 29.8 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58012
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/10/00
Analysis Time: 8:09
Sample QC Group: 310

Extraction Date: 5/ 2/00

FORM I

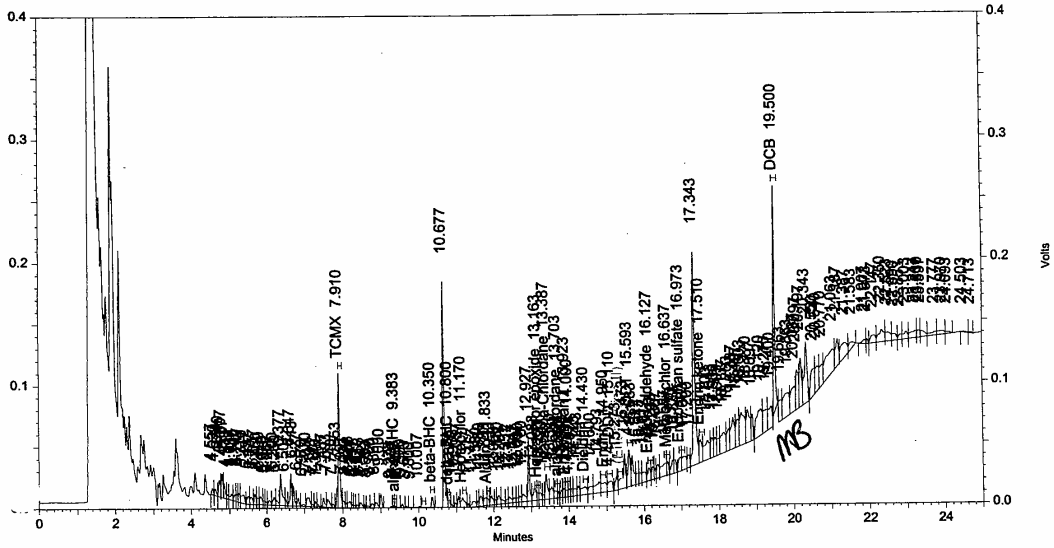
CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
309-00-2	Aldrin	2.05	U
319-84-6	a-BHC	2.05	U
319-85-7	b-BHC	2.05	U
319-86-8	d-BHC	2.05	U
58-89-9	g-BHC, Lindane	2.05	U
72-54-8	4,4'-DDD	4.11	U
72-55-9	4,4'-DDE	4.11	U
50-29-3	4,4'DDT	4.11	U
60-57-1	Dieldrin	4.11	U
959-98-8	Endosulfan I	2.05	U
33213-65-9	Endosulfan II	4.11	U
1031-07-8	Endosulfan sulfate	4.11	U
72-20-8	Endrin	4.11	U
7421-93-4	Endrin aldehyde	4.11	U
53494-70-5	Endrin Ketone	4.11	U
76-44-8	Heptachlor	2.05	U
111024-57-3	Heptachlor epoxide	2.05	U
72-43-5	Methoxychlor	20.6	U
8001-35-2	Toxaphene	206	U
5103-71-9	alpha-Chlordane	2.05	U
5103-74-2	gamma-Chlordane	2.05	U

Specialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

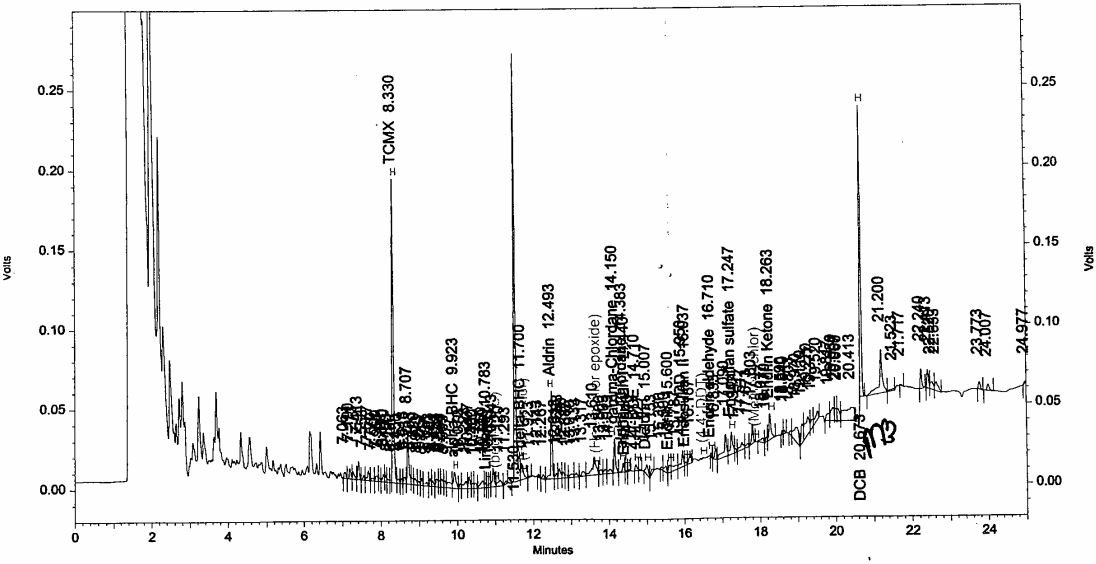
294

File Name : C:\Chrom231\PE#9\public\050900p9.024
Sample Name : 58012
Acquired : 5/10/2000 08:09:26
Method : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.5 um)



Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)



ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

ile Name : C:\Chrom231\PE#9\public\050900p9.024
ple Name : 58012
ed : 5/10/2000 08:09:26
C:\Chrom231\Methods\pest PE#9DOC.met

hannel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
TCMX	7.91	301230	0.0348
alpha-BHC	9.38	4616	0.0002
Lindane			0.0000 BDL
beta-BHC	10.35	31821	0.0038
delta-BHC	10.80	28263	0.0014
Heptachlor	11.17	58318	0.0033
Aldrin	11.83	20506	0.0012
Heptachlor epoxide	13.16	17364	0.0012
gamma-Chlordane	13.39	87288	0.0057
alpha-chlordane	13.70	14534	0.0010
Endosulfan I	13.92	24250	0.0018
4,4'-DDE	14.00	23537	0.0016
Dieldrin	14.43	69925	0.0051
Endrin	14.95	73518	0.0055
4,4'-DDD	15.11	72470	0.0073
Endosulfan II			0.0000 BDL
4,4'-DDT	15.59	132052	0.0129
Endrin aldehyde	16.13	57333	0.0066
Methoxychlor	16.64	37962	0.0067
Endosulfan sulfate	16.97	61004	0.0056
Endrin ketone	17.51	97750	0.0082
DCB	19.50	500465	0.0665

C annel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
TCMX	8.33	469550	0.0307
alpha-BHC	9.92	47044	0.0021
Lindane	10.78	4960	0.0002
beta-BHC			0.0000 BDL
delta-BHC	11.70	47256	0.0023
Heptachlor			0.0000 BDL
Aldrin	12.49	139797	0.0076
Heptachlor epoxide			0.0000 BDL
gamma-Chlordane	14.15	61889	0.0038
alpha-Chlordane	14.38	16825	0.0011
Endosulfan I	14.44	2103	0.0001
4,4'-DDE	14.71	11870	0.0008
Dieldrin	15.01	28192	0.0020
Endrin	15.60	19109	0.0014
4,4'-DDD	15.95	40718	0.0036
Endosulfan II	16.04	7257	0.0006
4,4'-DDT			0.0000 BDL
Endrin aldehyde	16.71	5410	0.0006
Endoulfan sulfate	17.25	59836	0.0051
Methoxychlor			0.0000 BDL
Endrin Ketone	18.26	58508	0.0047
DCB	20.67	438299	0.0534

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264725

Matrix: Soil
% Dry Weight: 57.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8081
Delivery Group: 189955
Instrument: PE-9
Grams Extracted: 29.5 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58013
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/10/00
Analysis Time: 8:49
Sample QC Group: 310

Extraction Date: 5/ 2/00

FORM I

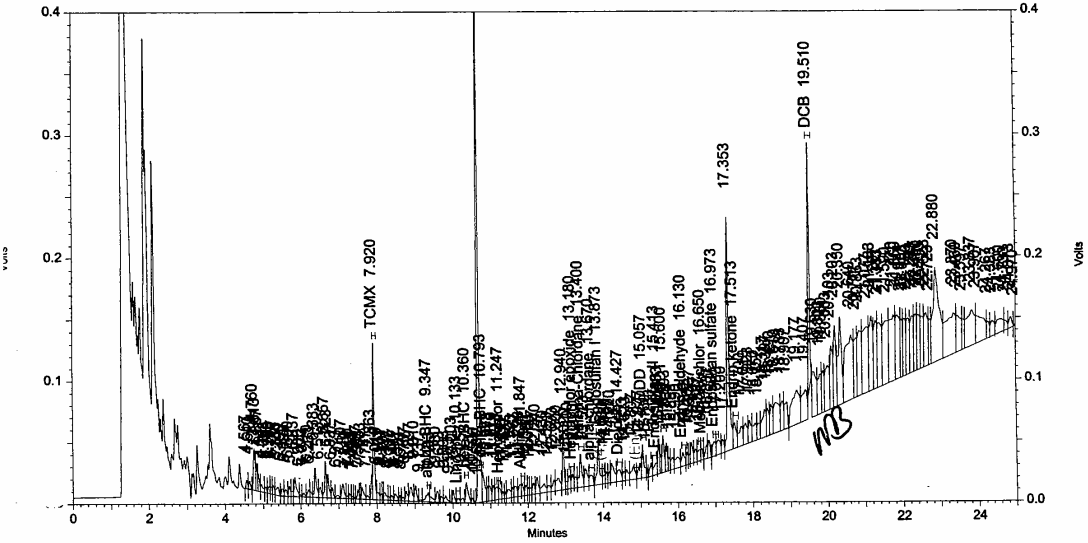
CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
309-00-2	Aldrin	2.91	U
319-84-6	a-BHC	2.91	U
319-85-7	b-BHC	2.91	U
319-86-8	d-BHC	2.91	U
58-89-9	g-BHC, Lindane	2.91	U
72-54-8	4,4'-DDD	5.84	U
72-55-9	4,4'-DDE	5.84	U
50-29-3	4,4'DDT	5.84	U
60-57-1	Dieldrin	5.84	U
959-98-8	Endosulfan I	2.91	U
33213-65-9	Endosulfan II	5.84	U
1031-07-8	Endosulfan sulfate	5.84	U
72-20-8	Endrin	5.84	U
7421-93-4	Endrin aldehyde	5.84	U
53494-70-5	Endrin Ketone	5.84	U
76-44-8	Heptachlor	2.91	U
111024-57-3	Heptachlor epoxide	2.91	U
72-43-5	Methoxychlor	29.2	U
8001-35-2	Toxaphene	292	U
5103-71-9	alpha-Chlordane	2.91	U
5103-74-2	gamma-Chlordane	2.91	U

COPY 1

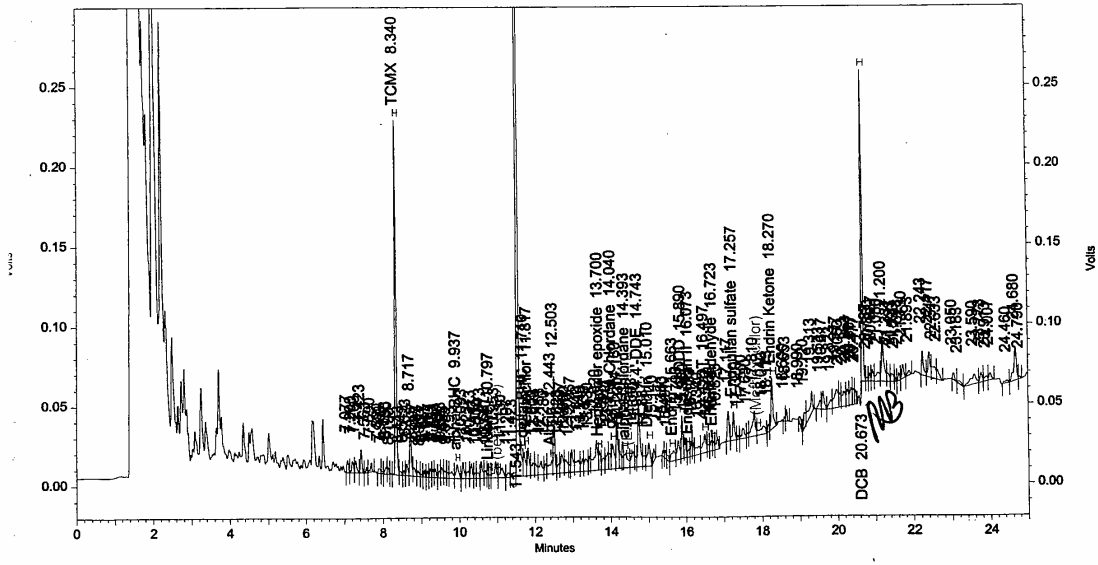
S ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.025
Sa ple Name : 58013
Aq red : 5/10/2000 08:49:30
Meth C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.5 um)



Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)



;p ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

ile Name : C:\Chrom231\PE#9\public\050900p9.025
ar ile Name : 58013
qu ed : 5/10/2000 08:49:30
lethc C:\Chrom231\Methods\pest PE#9DOC.met

hannel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.25 um)

Na ne	Retention Time	Area	ESTD concentration
TC MX	7.92	349451	0.0404
alpha-BHC	9.35	48574	0.0025
Li lane	10.13	18367	0.0010
be -BHC	10.36	78947	0.0094
delta-BHC	10.79	115382	0.0059
Heptachlor	11.25	38379	0.0022
Al in	11.85	35948	0.0021
Heptachlor epoxide	13.18	45886	0.0031
gamma-Chlordane	13.40	136253	0.0089
al na-chlordane	13.67	59885	0.0040
E iosulfan I	13.87	153184	0.0115
4,4'-DDE			0.0000 BDL
D ldrin	14.43	73568	0.0054
E rin			0.0000 BDL
4,4'-DDD	15.06	106064	0.0106
Endosulfan II	15.41	59402	0.0049
4 -DDT	15.60	110852	0.0109
E..drin aldehyde	16.13	61383	0.0070
Methoxychlor	16.65	34258	0.0061
E dosulfan sulfate	16.97	62184	0.0057
E etone	17.51	116588	0.0098
DCB	19.51	515701	0.0685

:h nnel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
T MX	8.34	534230	0.0349
a.ha-BHC	9.94	42683	0.0019
Lindane	10.80	6072	0.0003
b a-BHC			0.0000 BDL
c ta-BHC	11.71	62226	0.0030
Heptachlor	11.82	64458	0.0034
Aldrin	12.44	55700	0.0030
H ptachlor epoxide	13.70	36482	0.0023
gamma-Chlordane	14.04	78958	0.0049
alpha-Chlordane	14.39	64861	0.0041
E dosulfan I			0.0000 BDL
4 4'-DDE	14.74	158955	0.0110
Dieldrin	15.01	76731	0.0054
E drin	15.66	44713	0.0034
4 4'-DDD	15.89	71391	0.0063
Endosulfan II	16.07	19562	0.0015
4.4'-DDT	16.50	66784	0.0059
E drin aldehyde	16.72	17735	0.0018
L.doulfan sulfate	17.26	59814	0.0051
Me ychlor			0.0000 BDL
E Ketone	18.27	103955	0.0084
E CB	20.67	483574	0.0589

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264726

Matrix: Soil
% Dry Weight: 72.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8081
Delivery Group: 189955
Instrument: PE-9
Grams Extracted: 30.1 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58073
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/10/00
Analysis Time: 9:30
Sample GC Group: 310

Extraction Date: 5/ 2/00

FORM I

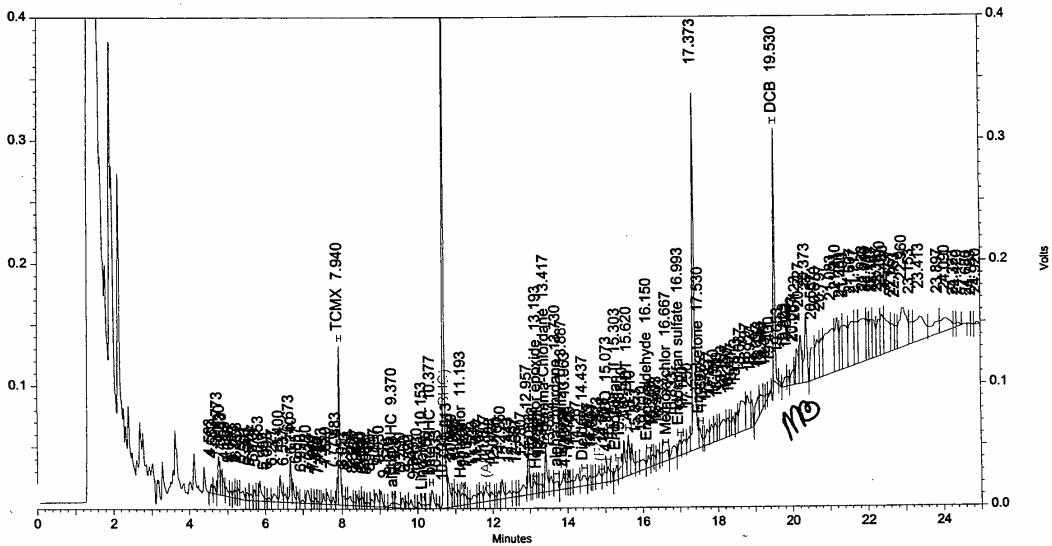
CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
309-00-2	Aldrin	2.31	U
319-84-6	a-BHC	2.31	U
319-85-7	b-BHC	2.31	U
319-86-8	d-BHC	2.31	U
58-89-9	g-BHC, Lindane	2.31	U
72-54-8	4,4'-DDD	4.62	U
72-55-9	4,4'-DDE	4.62	U
50-29-3	4,4'DDT	4.62	U
60-57-1	Dieldrin	4.62	U
959-98-8	Endosulfan I	2.31	U
33213-65-9	Endosulfan II	4.62	U
1031-07-8	Endosulfan sulfate	4.62	U
72-20-8	Endrin	4.62	U
7421-93-4	Endrin aldehyde	4.62	U
53494-70-5	Endrin Ketone	4.62	U
76-44-8	Heptachlor	2.31	U
111024-57-3	Heptachlor epoxide	2.31	U
72-43-5	Methoxychlor	23.1	U
8001-35-2	Toxaphene	231	U
5103-71-9	alpha-Chlordane	2.31	U
5103-74-2	gamma-Chlordane	2.31	U

COPY 1

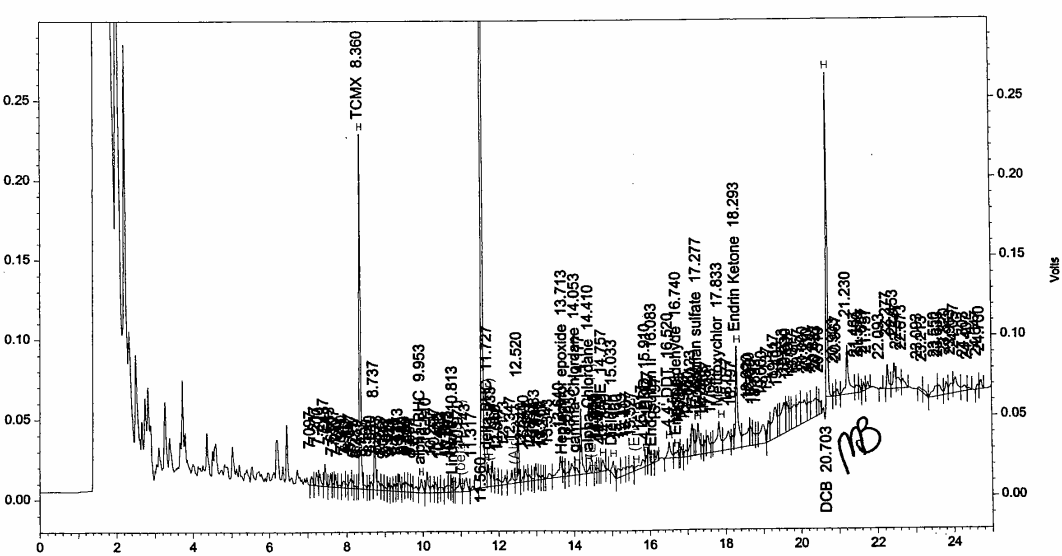
Specialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.026
Sample Name : 58073
Acquired : 5/10/2000 09:30:10
Method : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.5 um)



Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)



Specialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.026
Sample Name : 58073
Acquired : 5/10/2000 09:30:10
Method : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
TCMX	7.94	348835	0.0403
alpha-BHC	9.37	12351	0.0006
Lindane	10.15	16844	0.0009
beta-BHC	10.38	77976	0.0093
delta-BHC			0.0000 BDL
Heptachlor	11.19	49626	0.0028
Aldrin			0.0000 BDL
Heptachlor epoxide	13.19	22871	0.0015
gamma-Chlordane	13.42	143674	0.0094
alpha-chlordane	13.73	53166	0.0036
Endosulfan I	13.89	66877	0.0050
4,4'-DDE	13.96	19779	0.0013
Dieldrin	14.44	78094	0.0057
Endrin			0.0000 BDL
4,4'-DDD	15.07	57020	0.0057
Endosulfan II	15.30	56294	0.0046
4,4'-DDT	15.62	121671	0.0119
Endrin aldehyde	16.15	51500	0.0059
Methoxychlor	16.67	80110	0.0141
Endosulfan sulfate	16.99	59775	0.0055
Endrin ketone	17.53	74687	0.0063
DCB	19.53	529359	0.0703

Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
TCMX	8.36	534727	0.0349
alpha-BHC	9.95	40701	0.0018
Lindane	10.81	4554	0.0002
beta-BHC			0.0000 BDL
delta-BHC	11.73	55614	0.0027
Heptachlor			0.0000 BDL
Aldrin			0.0000 BDL
Heptachlor epoxide	13.71	11079	0.0007
gamma-Chlordane	14.05	21953	0.0014
alpha-Chlordane	14.41	18431	0.0012
Endosulfan I			0.0000 BDL
4,4'-DDE	14.76	30567	0.0021
Dieldrin	15.03	36779	0.0026
Endrin			0.0000 BDL
4,4'-DDD	15.91	19419	0.0017
Endosulfan II	16.08	3199	0.0003
4,4'-DDT	16.52	50172	0.0044
Endrin aldehyde	16.74	26171	0.0027
Endosulfan sulfate	17.28	94428	0.0081
Methoxychlor	17.83	137579	0.0221
Endrin Ketone	18.29	251833	0.0204
DCB	20.70	499286	0.0608

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name : SPECIALIZED ASSAYS
Lab Code : SASSAYS SDG : 189955
Instrument ID : PE#9
GC Column : RTX CLPesticides II ID : 30 m x 0.32 mm

Date(s) Analyzed : 5/9/00 5/9/00

Compound	RT of STANDARDS (ug/L)						MEAN	RT WINDOW(MIN)	
	5.0	20	50	70	100	150	RT	FROM	TO
alpha-BHC	9.95	9.96	9.96	9.94	9.95	9.95	9.95	9.90	10.00
gamma-BHC	10.80	10.81	10.81	10.80	10.80	10.80	10.80	10.75	10.85
beta-BHC	11.03	11.04	11.03	11.02	11.03	11.02	11.03	10.98	11.08
delta-BHC	11.69	11.70	11.69	11.68	11.69	11.69	11.69	11.64	11.74
Heptachlor	11.77	11.79	11.78	11.77	11.77	11.77	11.77	11.72	11.82
Aldrin	12.46	12.48	12.47	12.46	12.46	12.46	12.46	12.41	12.51
Heptachlor epoxide	13.69	13.71	13.69	13.69	13.69	13.69	13.69	13.62	13.76
gamma-Chlordane	14.08	14.10	14.08	14.07	14.08	14.08	14.08	14.01	14.15
alpha-Chlordane	14.38	14.40	14.38	14.37	14.38	14.37	14.38	14.31	14.45
Endosufan I	14.48	14.50	14.48	14.47	14.48	14.48	14.48	14.41	14.55
4,4'-DDE	14.77	14.78	14.77	14.76	14.76	14.76	14.77	14.70	14.84
ieldrin	15.04	15.06	15.04	15.03	15.04	15.03	15.04	14.97	15.11
Endrin	15.64	15.66	15.64	15.63	15.64	15.63	15.64	15.57	15.71
4,4'-DDD	15.91	15.93	15.91	15.91	15.91	15.91	15.91	15.84	15.98
Endosulfan II	16.07	16.09	16.07	16.06	16.07	16.06	16.07	16.00	16.14
4,4'-DDT	16.52	16.54	16.52	16.52	16.52	16.52	16.52	16.45	16.59
Endrin aldehyde	16.74	16.76	16.74	16.73	16.74	16.73	16.74	16.67	16.81
Endosulfan sulfate	17.28	17.30	17.27	17.27	17.28	17.27	17.28	17.21	17.35
Methoxychlor	17.90	17.92	17.90	17.89	17.90	17.89	17.90	17.85	17.95
Endrin ketone	18.31	18.33	18.31	18.30	18.31	18.31	18.31	18.26	18.36
Tetrachloro-m-xylene	8.36	8.37	8.37	8.35	8.36	8.35	8.36	8.31	8.41
Decachlorobiphenyl	20.70	20.73	20.70	20.70	20.70	20.70	20.70	20.60	20.80

Retention time windows are +/- 0.05 minutes for all analytes that elute before heptachlor epoxide and are
+/- 0.07 minutes for all other analytes.
+/- 0.10 minutes for Dibutylchlorendate.

6D

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name : SPECIALIZED ASSAYS
Lab Code : SASSAYS
Instrument ID : PE#9
GC Column : RTX CLPesticides

SDG : 189955
ID : 30 m x 0.32 mm

Date(s) Analyzed : 5/9/00 5/9/00

Compound	RT of STANDARDS (ug/L)						MEAN	RT WINDOW(MIN)	
	5.0	20	50	70	100	150	RT	FROM	TO
alpha-BHC	9.36	9.37	9.37	9.35	9.36	9.35	9.36	9.31	9.41
gamma-BHC	10.12	10.13	10.13	10.11	10.12	10.11	10.12	10.07	10.17
beta-BHC	10.36	10.37	10.36	10.35	10.36	10.35	10.36	10.31	10.41
delta-BHC	10.75	10.77	10.76	10.75	10.76	10.75	10.76	10.71	10.81
Heptachlor	11.21	11.23	11.22	11.21	11.21	11.21	11.21	11.16	11.26
Aldrin	11.87	11.88	11.87	11.86	11.87	11.86	11.87	11.82	11.92
Heptachlor epoxide	13.16	13.18	13.17	13.15	13.16	13.16	13.16	13.09	13.23
gamma-Chlordane	13.42	13.44	13.43	13.42	13.42	13.42	13.42	13.35	13.49
alpha-Chlordane	13.69	13.71	13.70	13.69	13.69	13.69	13.70	13.63	13.77
4,4'-DDE	13.89	13.91	13.90	13.89	13.89	13.89	13.90	13.83	13.97
Endosulfan I	13.95	13.97	13.96	13.95	13.95	13.95	13.95	13.88	14.02
Dieldrin	14.45	14.46	14.45	14.44	14.45	14.44	14.45	14.38	14.52
Endrin	14.90	14.92	14.90	14.89	14.90	14.89	14.90	14.83	14.97
4,4'-DDD	15.08	15.10	15.08	15.07	15.08	15.07	15.08	15.01	15.15
Endosulfan II	15.35	15.37	15.35	15.34	15.35	15.34	15.35	15.28	15.42
4,4'-DDT	15.63	15.65	15.63	15.62	15.63	15.62	15.63	15.56	15.70
Endrin aldehyde	16.17	16.19	16.17	16.16	16.17	16.17	16.17	16.10	16.24
Methoxychlor	16.62	16.64	16.62	16.61	16.62	16.62	16.62	16.55	16.69
Endosulfan sulfate	17.02	17.04	17.02	17.01	17.01	17.01	17.02	16.97	17.07
Endrin ketone	17.55	17.58	17.55	17.55	17.55	17.55	17.56	17.51	17.61
Tetrachloro-m-xylene	7.94	7.95	7.95	7.94	7.94	7.93	7.94	7.89	7.99
Decachlorobiphenyl	19.53	19.55	19.53	19.53	19.53	19.53	19.53	19.43	19.63

Retention time windows are +/- 0.05 minutes for all analytes that elute before heptachlor epoxide and are +/- 0.07 minutes for all other analytes.

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name : SPECIALIZED ASSAYS
Lab Code : SASSAYS
Instrument ID : PE#9
GC Column : RTX CLPesticides

SDG : 189955

ID : 30 m x 0.32 mm

Date(s) Analyzed : 5/9/00 5/9/00

COMPOUND	CALIBRATION FACTORS						MEAN	% RSD
	5.0	20	50	70	100	150		
alpha-BHC	5.310E-8	4.071E-8	5.167E-8	5.237E-8	5.247E-8	5.597E-8	5.105E-8	10.34
gamma-BHC	5.680E-8	4.274E-8	5.513E-8	5.620E-8	5.651E-8	5.922E-8	5.443E-8	10.81
beta-BHC	1.080E-7	9.104E-8	1.227E-7	1.266E-7	1.292E-7	1.365E-7	1.190E-7	13.98
delta-BHC	5.617E-8	4.059E-8	5.121E-8	5.175E-8	5.176E-8	5.555E-8	5.117E-8	10.94
Heptachlor	5.639E-8	4.401E-8	5.738E-8	5.852E-8	5.917E-8	6.185E-8	5.622E-8	11.14
Aldrin	5.792E-8	4.560E-8	6.044E-8	6.190E-8	6.241E-8	6.509E-8	5.889E-8	11.76
Heptachlor epoxide	6.182E-8	5.215E-8	6.965E-8	7.105E-8	7.205E-8	7.539E-8	6.702E-8	12.78
gamma-Chlordane	5.869E-8	5.111E-8	6.860E-8	6.999E-8	7.126E-8	7.403E-8	6.561E-8	13.44
alpha-Chlordane	6.040E-8	5.200E-8	7.004E-8	7.147E-8	7.294E-8	7.589E-8	6.712E-8	13.52
4,4'-DDE	7.025E-8	5.802E-8	7.713E-8	7.921E-8	8.068E-8	8.510E-8	7.506E-8	12.88
Endosulfan I	6.360E-8	5.222E-8	6.959E-8	7.102E-8	7.288E-8	7.490E-8	6.737E-8	12.40
Dieldrin	7.189E-8	5.872E-8	7.517E-8	7.615E-8	7.647E-8	7.957E-8	7.299E-8	10.16
Endrin	7.428E-8	6.067E-8	7.695E-8	7.827E-8	7.871E-8	8.185E-8	7.512E-8	9.98
4,4'-DDD	1.068E-7	8.293E-8	1.009E-7	1.031E-7	1.020E-7	1.055E-7	1.002E-7	8.73
Endosulfan II	8.348E-8	6.575E-8	8.215E-8	8.593E-8	8.626E-8	9.062E-8	8.237E-8	10.49
4,4'-DDT	1.066E-7	7.855E-8	9.787E-8	1.015E-7	9.980E-8	1.034E-7	9.795E-8	10.17
Endrin aldehyde	1.211E-7	9.075E-8	1.146E-7	1.183E-7	1.192E-7	1.241E-7	1.147E-7	10.57
Methoxychlor	1.846E-7	1.404E-7	1.697E-7	1.847E-7	1.876E-7	1.927E-7	1.766E-7	10.95
Endosulfan sulfate	9.661E-8	7.570E-8	8.951E-8	9.650E-8	9.455E-8	1.010E-7	9.232E-8	9.70
Endrin ketone	8.365E-8	6.608E-8	8.618E-8	9.138E-8	8.476E-8	9.224E-8	8.405E-8	11.27
Tetrachloro-m-xylene	9.900E-8	8.693E-8	1.194E-7	1.253E-7	1.278E-7	1.351E-7	1.156E-7	16.11
Decachlorobiphenyl	1.557E-7	1.154E-7	1.312E-7	1.250E-7	1.294E-7	1.400E-7	1.328E-7	10.41

The % RSD must be less than or equal 20.0 % for all compounds.

6E

PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name : SPECIALIZED ASSAYS
Lab Code : SASSAYS
Instrument ID : PE#9
GC Column : RTX CLPesticides II

SDG : 189955

ID : 30 m x 0.32 mm

Date(s) Analyzed : 5/9/00 5/9/00

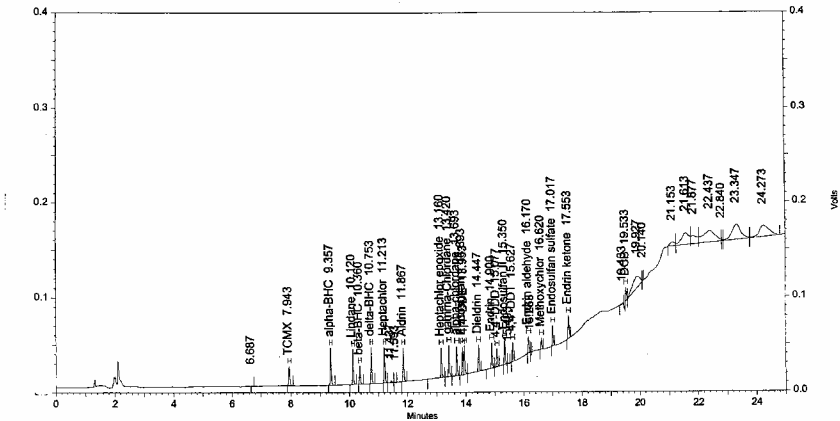
COMPOUND	CALIBRATION FACTORS						MEAN	% RSD
	5.0	20	50	70	100	150		
alpha-BHC	4.617E-8	3.417E-8	4.475E-8	4.613E-8	4.697E-8	5.433E-8	4.542E-8	14.26
gamma-BHC	4.788E-8	3.699E-8	4.885E-8	5.060E-8	5.174E-8	5.728E-8	4.889E-8	13.69
beta-BHC	7.736E-8	6.867E-8	9.417E-8	9.867E-8	1.014E-7	1.091E-7	9.157E-8	16.83
delta-BHC	4.832E-8	3.674E-8	4.809E-8	4.931E-8	5.026E-8	5.680E-8	4.825E-8	13.46
Heptachlor	4.908E-8	4.045E-8	5.449E-8	5.649E-8	5.767E-8	6.155E-8	5.329E-8	14.09
Aldrin	5.119E-8	4.123E-8	5.551E-8	5.743E-8	5.856E-8	6.188E-8	5.430E-8	13.46
Heptachlor epoxide	5.945E-8	4.865E-8	6.445E-8	6.623E-8	6.772E-8	7.147E-8	6.299E-8	12.80
gamma-Chlordane	5.861E-8	4.784E-8	6.367E-8	6.545E-8	6.659E-8	6.976E-8	6.199E-8	12.66
alpha-Chlordane	5.887E-8	4.844E-8	6.488E-8	6.693E-8	6.864E-8	7.214E-8	6.332E-8	13.45
Endosufan I	6.559E-8	5.269E-8	7.014E-8	7.210E-8	7.320E-8	7.702E-8	6.846E-8	12.55
4,4'-DDE	7.304E-8	5.410E-8	7.020E-8	7.162E-8	7.261E-8	7.546E-8	6.951E-8	11.14
Dieldrin	7.204E-8	5.474E-8	7.094E-8	7.243E-8	7.327E-8	7.575E-8	6.986E-8	10.85
Endrin	7.703E-8	5.923E-8	7.601E-8	7.832E-8	7.865E-8	8.199E-8	7.521E-8	10.75
4,4'-DDD	9.128E-8	7.001E-8	8.816E-8	9.106E-8	9.084E-8	9.481E-8	8.769E-8	10.17
Endosulfan II	7.687E-8	6.136E-8	8.043E-8	8.280E-8	8.300E-8	8.684E-8	7.855E-8	11.51
4,4'-DDT	9.075E-8	6.912E-8	9.069E-8	9.210E-8	9.228E-8	9.547E-8	8.840E-8	10.86
Endrin aldehyde	1.030E-7	8.058E-8	1.051E-7	1.086E-7	1.080E-7	1.127E-7	1.030E-7	11.13
Endosulfan sulfate	8.750E-8	6.684E-8	8.730E-8	8.928E-8	9.062E-8	9.407E-8	8.594E-8	11.26
Methoxychlor	1.731E-7	1.300E-7	1.517E-7	1.661E-7	1.675E-7	1.738E-7	1.604E-7	10.52
Endrin ketone	8.074E-8	6.573E-8	8.171E-8	8.366E-8	8.502E-8	8.845E-8	8.089E-8	9.77
Tetrachloro-m-xylene	5.604E-8	4.870E-8	6.695E-8	7.022E-8	7.232E-8	7.762E-8	6.531E-8	16.62
Decachlorobiphenyl	1.330E-7	9.677E-8	1.218E-7	1.239E-7	1.271E-7	1.283E-7	1.218E-7	10.56

The % RSD must be less than or equal 20.0 % for all compounds.

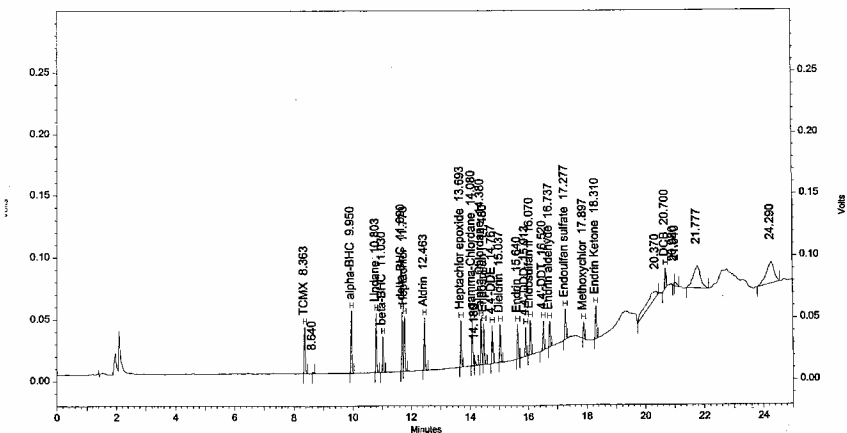
S_ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

ile Name : C:\Chrom231\PE#9\public\050900p9.002
ie ple Name : pest 0.005(4-w-mc-222-3)
ic red : 5/9/2000 17:23:00
Meth C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.5 um)



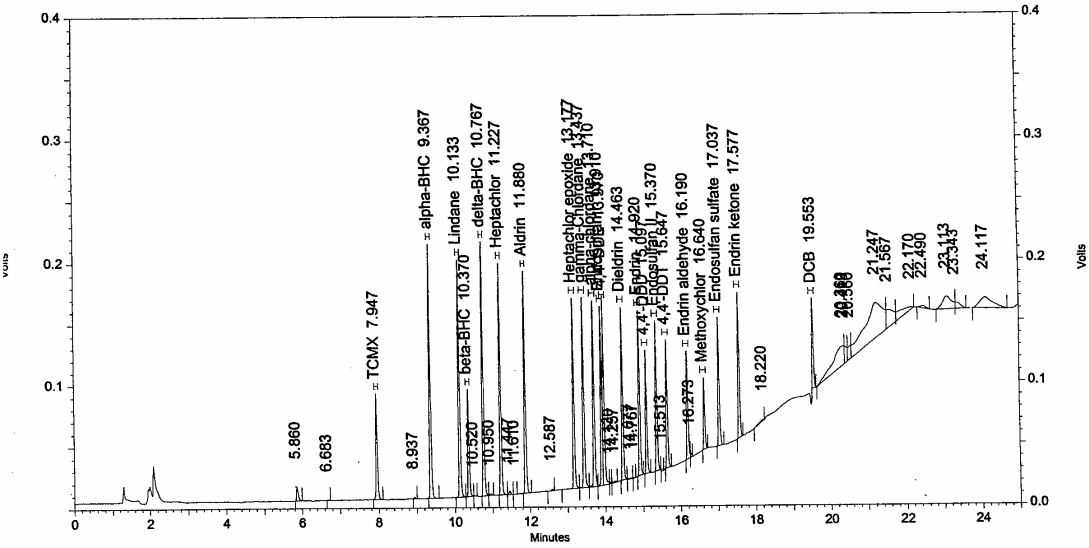
Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)



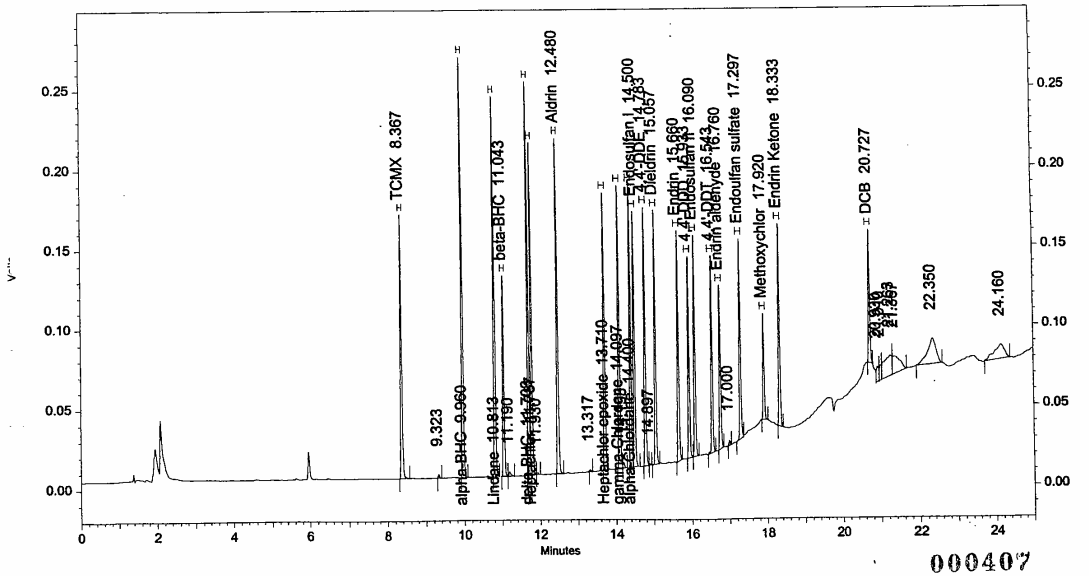
S ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

ile Name : C:\Chrom231\PE#9\public\050900p9.003
a ple Name : pest 0.02 (4-w-mc-222-3)
q red : 5/9/2000 18:03:11
Meth : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.5 um)



Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)



S[ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

ile Name : C:\Chrom231\PE#9\public\050900p9.002
a ple Name : pest 0.005(4-w-mc-222-3)
q red : 5/9/2000 17:23:00
Method : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.25 um)

N me	Retention Time	Area	ESTD concentration
T MX	7.94	50506	0.0058
alpha-BHC	9.36	94163	0.0048
L dane	10.12	88022	0.0048
b a-BHC	10.36	46287	0.0055
delta-BHC	10.75	89023	0.0046
Heptachlor	11.21	88665	0.0050
A rin	11.87	86323	0.0051
Heptachlor epoxide	13.16	80882	0.0054
gamma-Chlordane	13.42	85187	0.0056
a ha-chlordane	13.69	82783	0.0056
E dosulfan I	13.89	71177	0.0053
4,4'-DDE	13.95	78612	0.0053
Dieldrin	14.45	69551	0.0051
E drin	14.90	67317	0.0051
4,4'-DDD	15.08	46811	0.0047
Endosulfan II	15.35	59891	0.0049
4 '-DDT	15.63	46913	0.0046
E drin aldehyde	16.17	41290	0.0047
Methoxychlor	16.62	27091	0.0048
E dosulfan sulfate	17.02	51757	0.0048
E ketone	17.55	59776	0.0050
DCB	19.53	32106	0.0043

C annel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
CMX	8.36	89226	0.0058
pha-BHC	9.95	108297	0.0049
Lindane	10.80	104433	0.0051
ta-BHC	11.03	64629	0.0059
lta-BHC	11.69	103480	0.0050
Heptachlor	11.77	101878	0.0054
Aldrin	12.46	97678	0.0053
eptachlor epoxide	13.69	84101	0.0053
gamma-Chlordane	14.08	85304	0.0053
alpha-Chlordane	14.38	84933	0.0054
ndosulfan I	14.48	76232	0.0052
4'-DDE	14.77	68453	0.0048
Dieldrin	15.04	69404	0.0048
ndrin	15.64	64909	0.0049
4'-DDD	15.91	54775	0.0048
Endosulfan II	16.07	65049	0.0051
4,4'-DDT	16.52	55099	0.0049
ndrin aldehyde	16.74	48542	0.0050
ndoulfan sulfate	17.28	57141	0.0049
Me xychlor	17.90	28879	0.0046
Ketone	18.31	61931	0.0050
CB	20.70	37593	0.0046

S ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

ile Name : C:\Chrom231\PE#9\public\050900p9.003
ple Name : pest 0.02 (4-w-mc-222-3)
red : 5/9/2000 18:03:11
Meth C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
TCMX	7.95	230064	0.0266
alpha-BHC	9.37	491291	0.0251
Lindane	10.13	467936	0.0255
beta-BHC	10.37	219675	0.0261
delta-BHC	10.77	492761	0.0252
Heptachlor	11.23	454455	0.0255
Aldrin	11.88	438615	0.0258
Heptachlor epoxide	13.18	383533	0.0257
gamma-Chlordane	13.44	391297	0.0257
alpha-chlordane	13.71	384597	0.0258
Endosulfan I	13.91	344691	0.0259
4,4'-DDE	13.97	383030	0.0258
Dieldrin	14.46	340611	0.0249
Endrin	14.92	329668	0.0248
4,4'-DDD	15.10	241163	0.0242
Endosulfan II	15.37	304164	0.0251
4,4'-DDT	15.65	254602	0.0249
Endrin aldehyde	16.19	220384	0.0253
Methoxychlor	16.64	142492	0.0252
Endosulfan sulfate	17.04	264206	0.0244
Endrin ketone	17.58	302641	0.0254
DCB	19.55	173268	0.0230

Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
TCMX	8.37	410680	0.0268
alpha-BHC	9.96	585280	0.0266
Lindane	10.81	540624	0.0264
beta-BHC	11.04	291230	0.0267
delta-BHC	11.70	544414	0.0263
Heptachlor	11.79	494488	0.0263
Aldrin	12.48	485047	0.0263
Heptachlor epoxide	13.71	411138	0.0259
gamma-Chlordane	14.10	418047	0.0259
alpha-Chlordane	14.40	412895	0.0261
Endosulfan I	14.50	379594	0.0260
4,4'-DDE	14.78	369666	0.0257
Dieldrin	15.06	365367	0.0255
Endrin	15.66	337639	0.0254
4,4'-DDD	15.93	285658	0.0251
Endosulfan II	16.09	325936	0.0256
4,4'-DDT	16.54	289350	0.0256
Endrin aldehyde	16.76	248189	0.0256
Endoulfan sulfate	17.30	299225	0.0257
Methoxychlor	17.92	153836	0.0247
Endrin Ketone	18.33	304260	0.0246
DCB	20.73	206680	0.0252

S ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

ile Name : C:\Chrom231\PE#9\public\050900p9.004
Sa ple Name : pest 0.05 (4-w-mc-222-3)
\q red : 5/9/2000 18:43:47
Meth C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.25 um)

N me	Retention Time	Area	ESTD concentration
T MX	7.95	418704	0.0484
alpha-BHC	9.37	967706	0.0494
L dane	10.13	906869	0.0494
b a-BHC	10.36	407333	0.0485
delta-BHC	10.76	976444	0.0500
Heptachlor	11.22	871421	0.0490
A lrin	11.87	827309	0.0487
Heptachlor epoxide	13.17	717831	0.0481
gamma-Chlordane	13.43	728911	0.0478
a ha-chlordane	13.70	713927	0.0479
E dosulfan I	13.90	648245	0.0487
4,4'-DDE	13.96	718537	0.0484
D eldrin	14.45	665171	0.0486
E drin	14.90	649768	0.0488
4,4'-DDD	15.08	495549	0.0497
Endosulfan II	15.35	608638	0.0501
4'-DDT	15.63	510901	0.0500
L drin aldehyde	16.17	436249	0.0500
Methoxychlor	16.62	294597	0.0520
dosulfan sulfate	17.02	558590	0.0516
ketone	17.55	580174	0.0488
DCB	19.53	381045	0.0506

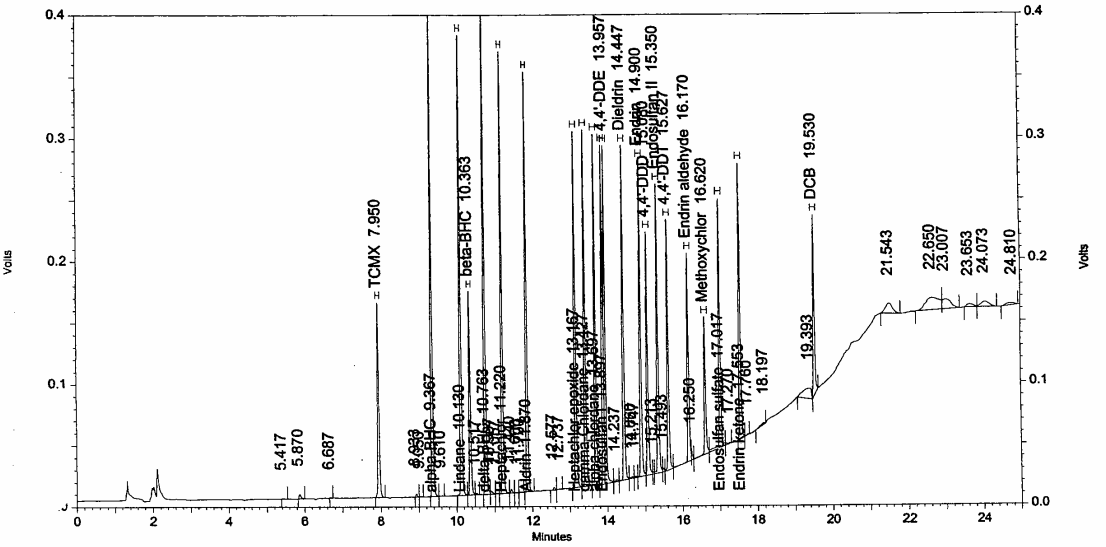
C annel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
CMX	8.37	746839	0.0488
pha-BHC	9.96	1117392	0.0508
Lindane	10.81	1023513	0.0500
eta-BHC	11.03	530933	0.0486
elta-BHC	11.69	1039636	0.0502
Heptachlor	11.78	917666	0.0489
Aldrin	12.47	900780	0.0489
eptachlor epoxide	13.69	775779	0.0489
gamma-Chlordane	14.08	785326	0.0487
alpha-Chlordane	14.38	770687	0.0488
ndosulfan I	14.48	712834	0.0488
,4'-DDE	14.77	712245	0.0495
Dieldrin	15.04	704799	0.0492
ndrin	15.64	657777	0.0495
,4'-DDD	15.91	567142	0.0497
Endosulfan II	16.07	621643	0.0488
4,4'-DDT	16.52	551352	0.0487
ndrin aldehyde	16.74	475552	0.0490
ndoulfan sulfate	17.27	572708	0.0492
M xychlor	17.90	329598	0.0529
ndrin Ketone	18.31	611953	0.0495
CB	20.70	410652	0.0500

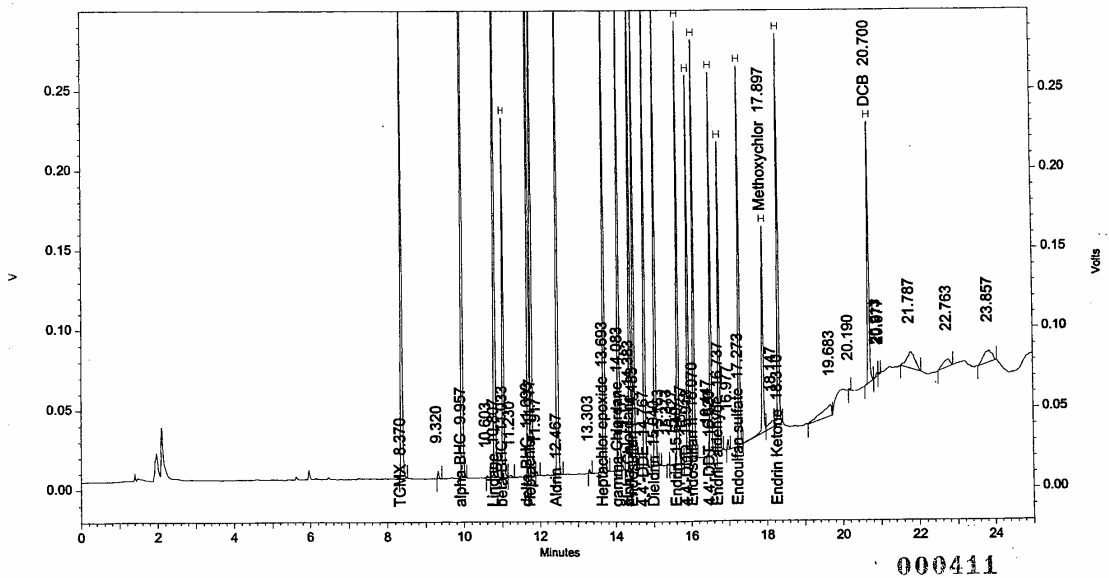
S ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.004
Sa ple Name : pest 0.05 (4-w-mc-222-3)
Ac ired : 5/9/2000 18:43:47
Meth ' : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.5 um)



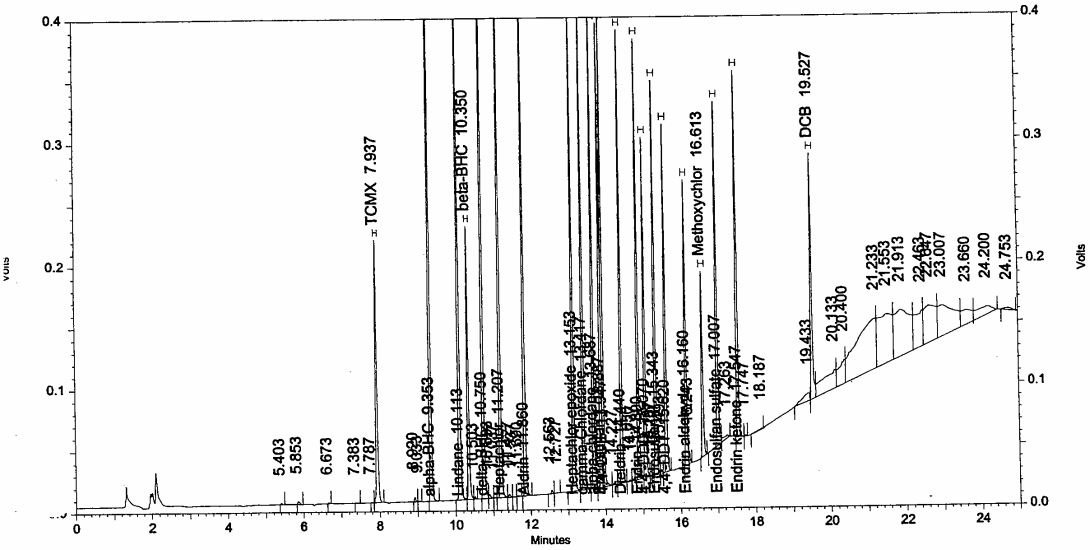
Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)



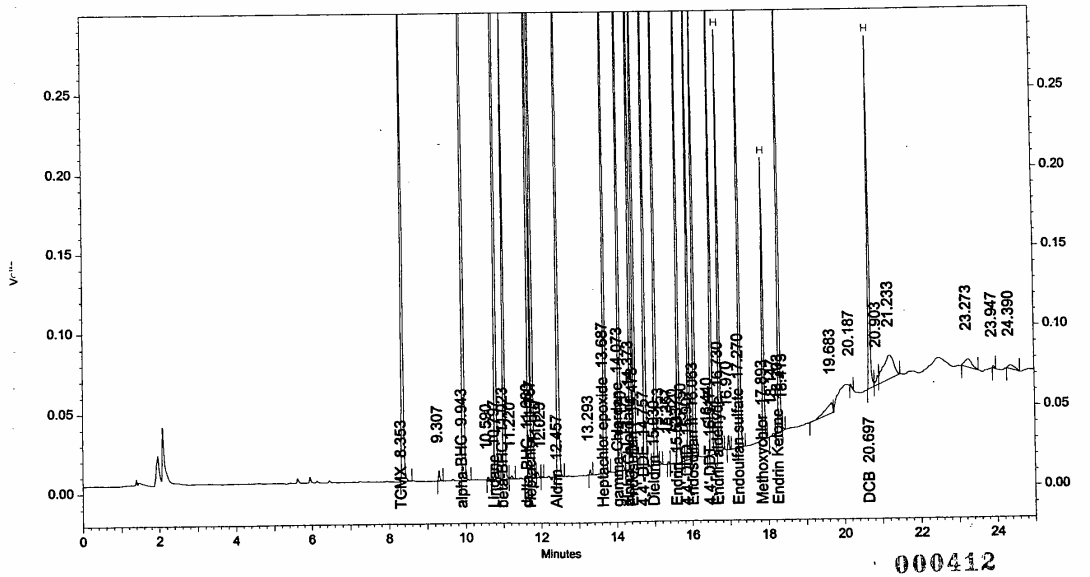
Specialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.005
Sample Name : pest 0.07 (4-w-ah-222-3)
Acquired : 5/9/2000 19:24:12
Method : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.5 um)



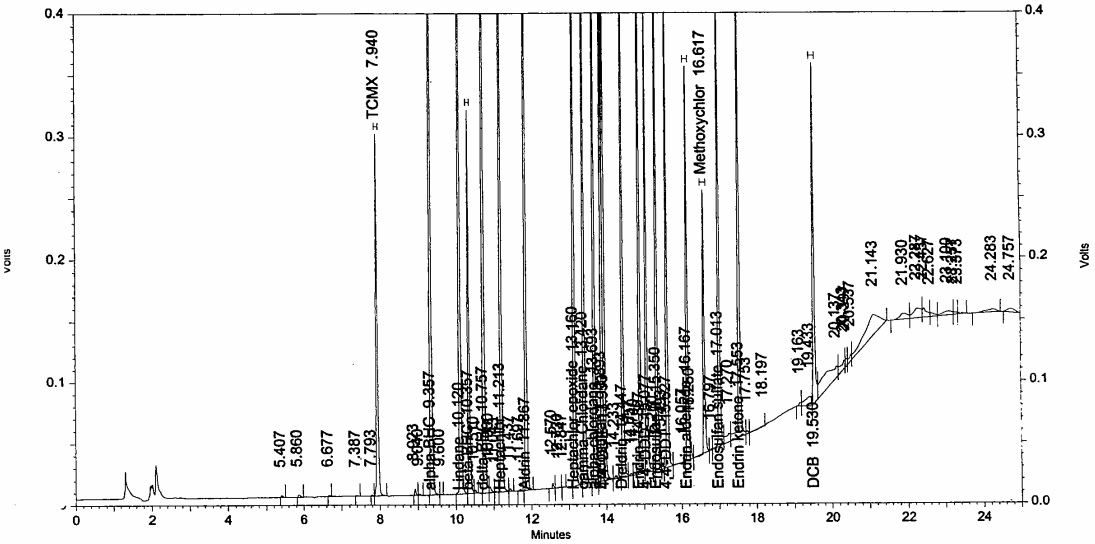
Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)



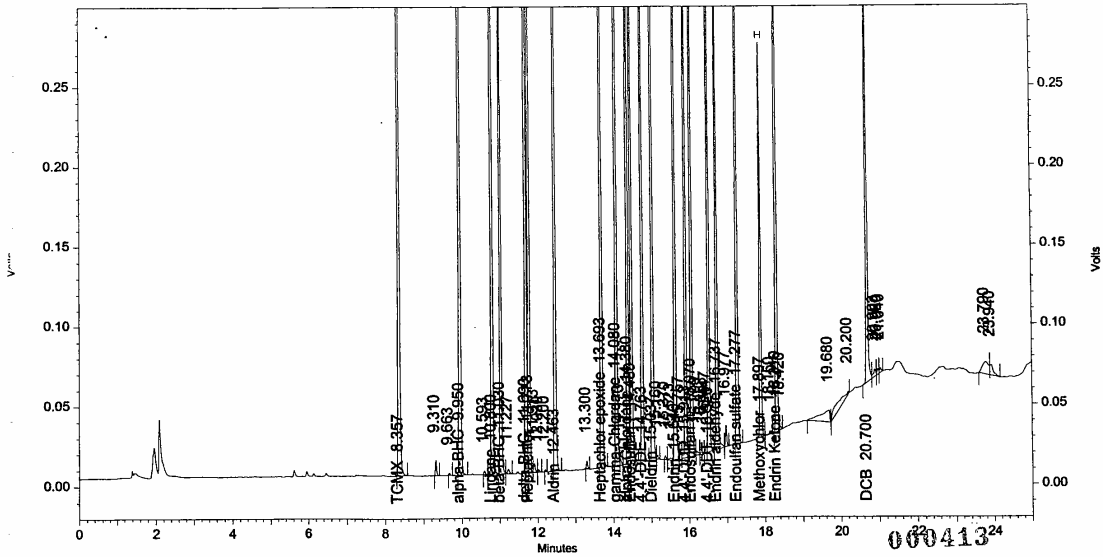
Specialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.006
Sample Name : pest 0.1 (4-w-ah-222-3)
Acquired : 5/9/2000 20:04:27
Method : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.5 um)



Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)



S ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.005
Sample Name : pest 0.07 (4-w-ah-222-3)
Acquired : 5/9/2000 19:24:12
Method : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
TCMX	7.94	558517	0.0646
alpha-BHC	9.35	1336740	0.0682
Lindane	10.11	1245548	0.0678
beta-BHC	10.35	553102	0.0658
delta-BHC	10.75	1352722	0.0692
Heptachlor	11.21	1196255	0.0673
Aldrin	11.86	1130892	0.0666
Heptachlor epoxide	13.15	985236	0.0660
gamma-Chlordane	13.42	1000142	0.0656
alpha-chlordane	13.69	979471	0.0657
Endosulfan I	13.89	883781	0.0663
4,4'-DDE	13.95	985625	0.0664
Dieldrin	14.44	919204	0.0671
Endrin	14.89	894362	0.0672
4,4'-DDD	15.07	678925	0.0680
Endosulfan II	15.34	814584	0.0671
4,4'-DDT	15.62	689621	0.0675
Endrin aldehyde	16.16	591711	0.0678
Methoxychlor	16.61	378951	0.0669
Endosulfan sulfate	17.01	725413	0.0670
Endrin ketone	17.55	766063	0.0644
DCB	19.53	560035	0.0744

Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
TCMX	8.35	996910	0.0651
alpha-BHC	9.94	1517333	0.0689
Lindane	10.80	1383296	0.0676
beta-BHC	11.02	709457	0.0650
delta-BHC	11.68	1419678	0.0685
Heptachlor	11.77	1239166	0.0660
Aldrin	12.46	1218845	0.0662
Heptachlor epoxide	13.69	1056853	0.0666
gamma-Chlordane	14.07	1069562	0.0663
alpha-Chlordane	14.37	1045805	0.0662
Endosulfan I	14.47	970825	0.0665
4,4'-DDE	14.76	977422	0.0679
Dieldrin	15.03	966466	0.0675
Endrin	15.63	893748	0.0672
4,4'-DDD	15.91	768724	0.0674
Endosulfan II	16.06	845374	0.0664
4,4'-DDT	16.52	760049	0.0672
Endrin aldehyde	16.73	644579	0.0664
Endoulfan sulfate	17.27	784042	0.0674
Methoxychlor	17.89	421429	0.0676
Endrin Ketone	18.30	836712	0.0677
DCB	20.70	565173	0.0688

S ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.006
Sample Name : pest 0.1 (4-w-ah-222-3)
Acquired : 5/9/2000 20:04:27
Method : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
TCMX	7.94	782608	0.0905
alpha-BHC	9.36	1905865	0.0973
Lindane	10.12	1769574	0.0963
beta-BHC	10.36	774074	0.0921
delta-BHC	10.76	1931831	0.0989
Heptachlor	11.21	1689984	0.0950
Aldrin	11.87	1602409	0.0944
Heptachlor epoxide	13.16	1387854	0.0930
gamma-Chlordane	13.42	1403339	0.0921
alpha-chlordane	13.69	1371047	0.0920
Endosulfan I	13.89	1239454	0.0930
4,4'-DDE	13.95	1372194	0.0924
Dieldrin	14.45	1307665	0.0955
Endrin	14.90	1270446	0.0954
4,4'-DDD	15.08	980391	0.0982
Endosulfan II	15.35	1159230	0.0955
4,4'-DDT	15.63	1002024	0.0981
Endrin aldehyde	16.17	839119	0.0962
Methoxychlor	16.62	533134	0.0942
Endosulfan sulfate	17.01	1057623	0.0976
Endrin ketone	17.55	1179817	0.0992
DCB	19.53	772819	0.1026

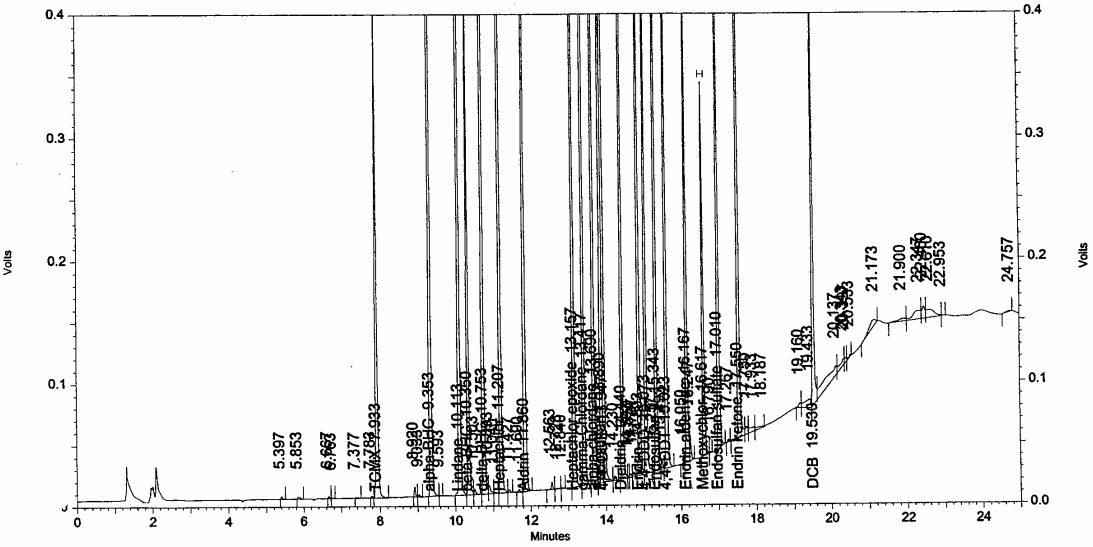
Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
TCMX	8.36	1382765	0.0903
alpha-BHC	9.95	2129060	0.0967
Lindane	10.80	1932909	0.0945
beta-BHC	11.03	985857	0.0903
delta-BHC	11.69	1989794	0.0960
Heptachlor	11.77	1733881	0.0924
Aldrin	12.46	1707582	0.0927
Heptachlor epoxide	13.69	1476768	0.0930
gamma-Chlordane	14.08	1501719	0.0931
alpha-Chlordane	14.38	1456959	0.0922
Endosulfan I	14.48	1366072	0.0935
4,4'-DDE	14.76	1377243	0.0957
Dieldrin	15.04	1364874	0.0954
Endrin	15.64	1271385	0.0956
4,4'-DDD	15.91	1100867	0.0965
Endosulfan II	16.07	1204752	0.0946
4,4'-DDT	16.52	1083681	0.0958
Endrin aldehyde	16.74	926054	0.0954
Endoulfan sulfate	17.28	1103452	0.0948
Methoxychlor	17.90	597144	0.0958
Endrin Ketone	18.31	1176142	0.0951
DCB	20.70	786904	0.0958

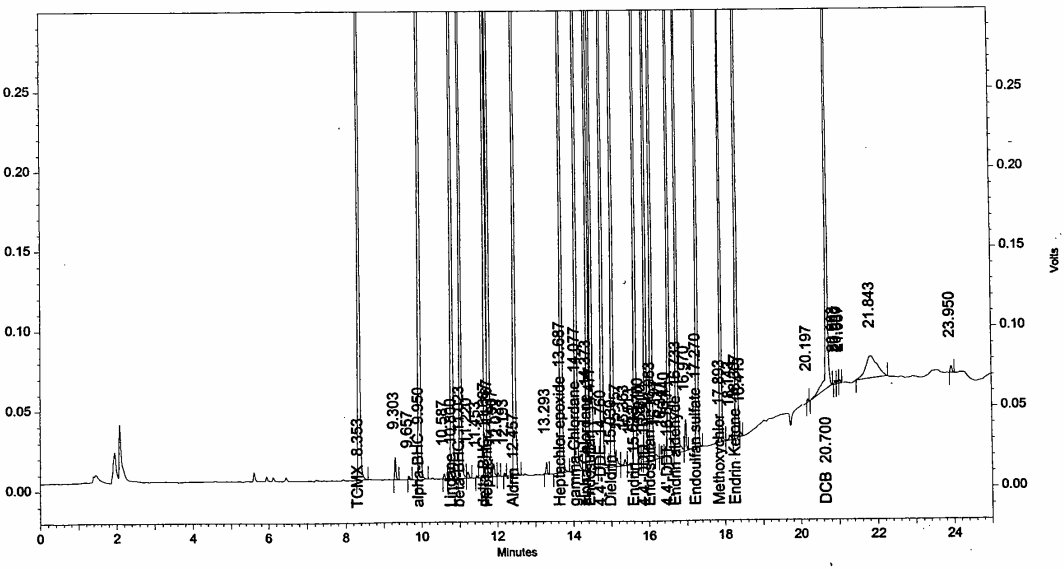
Specialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.007
Sample Name : pest 0.15 (4-w-ah-222-3)
Acquired : 5/9/2000 20:44:51
Method : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.5 um)



Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)



000416

Specialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.007
Sample Name : pest 0.15 (4-w-ah-222-3)
Acquired : 5/9/2000 20:44:51
Method : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
TCMX	7.93	1110643	0.1284
alpha-BHC	9.35	2680206	0.1368
Lindane	10.11	2532983	0.1379
beta-BHC	10.35	1098710	0.1308
delta-BHC	10.75	2700388	0.1382
Heptachlor	11.21	2425355	0.1364
Aldrin	11.86	2304579	0.1357
Heptachlor epoxide	13.16	1989731	0.1333
gamma-Chlordane	13.42	2026217	0.1329
alpha-chlordane	13.69	1976456	0.1327
Endosulfan I	13.89	1762660	0.1323
4,4'-DDE	13.95	2002617	0.1349
Dieldrin	14.44	1885249	0.1376
Endrin	14.89	1832541	0.1377
4,4'-DDD	15.07	1421661	0.1425
Endosulfan II	15.34	1655199	0.1363
4,4'-DDT	15.62	1450850	0.1421
Endrin aldehyde	16.17	1209064	0.1386
Methoxychlor	16.62	778360	0.1375
Endosulfan sulfate	17.01	1484526	0.1370
Endrin ketone	17.55	1626168	0.1367
DCB	19.53	1071347	0.1423

Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
TCMX	8.35	1932389	0.1262
alpha-BHC	9.95	2761090	0.1254
Lindane	10.80	2618689	0.1280
beta-BHC	11.02	1374963	0.1259
delta-BHC	11.69	2640884	0.1274
Heptachlor	11.77	2437057	0.1299
Aldrin	12.46	2424106	0.1316
Heptachlor epoxide	13.69	2098832	0.1322
gamma-Chlordane	14.08	2150305	0.1333
alpha-Chlordane	14.37	2079208	0.1316
Endosulfan I	14.48	1947515	0.1333
4,4'-DDE	14.76	1987678	0.1382
Dieldrin	15.03	1980213	0.1383
Endrin	15.63	1829448	0.1376
4,4'-DDD	15.91	1582106	0.1387
Endosulfan II	16.06	1727410	0.1357
4,4'-DDT	16.52	1571135	0.1389
Endrin aldehyde	16.73	1331283	0.1371
Endoulfan sulfate	17.27	1594561	0.1370
Methoxychlor	17.89	862992	0.1384
Endrin Ketone	18.31	1695818	0.1372
DCB	20.70	1169065	0.1424

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name : SPECIALIZED ASSAYS
Lab Code : SASSAYS

SDG : 189955

EPA Sample ID (BD) : BD01
Lab Sample ID (BD) : BREAKDOWN
EPA Sample ID (CCV) : CCV01
Lab Sample ID (CCV) : 0.05 PEST

Date Analyzed : 5/10/00
Time Analyzed : 06:49
Date Analyzed : 5/10/00
Time Analyzed : 07:29

GC Column (1) : RTX CLPesticides ID : 30 m x 0.32 mm
Initial Calibration Date(s) : 5/9/00

GC Column (2) : RTX CLPesticides II ID : 30 m x 0.32 mm
Initial Calibration Date(s) : 5/9/00

COMPOUNDS	RT	RT Window		Calc. Amount	Known Amount	% Diff.
		From	To	(ng)	(ng)	
Tetrachloro-m-xylene	7.92	7.87	7.97	51.4	50.0	3
alpha-BHC	9.33	9.28	9.38	53.0	50.0	6
gamma-BHC	10.09	10.04	10.14	53.4	50.0	7
beta-BHC	10.33	10.28	10.38	53.3	50.0	7
delta-BHC	10.73	10.68	10.78	57.2	50.0	14
Heptachlor	11.19	11.14	11.24	52.4	50.0	5
Aldrin	11.84	11.79	11.89	52.0	50.0	4
Heptachlor epoxide	13.13	13.08	13.18	52.1	50.0	4
gamma-Chlordane	13.39	13.32	13.46	52.9	50.0	6
alpha-Chlordane	13.67	13.60	13.74	52.6	50.0	5
4,4'-DDE	13.87	13.80	13.94	47.9	50.0	-4
Endosulfan I	13.93	13.86	14.00	59.5	50.0	19 *
Dieldrin	14.42	14.35	14.49	53.5	50.0	7
Endrin	14.87	14.80	14.94	53.0	50.0	6
4,4'-DDD	15.05	14.98	15.12	56.5	50.0	13
Endosulfan II	15.32	15.25	15.39	54.1	50.0	8
4,4'-DDT	15.60	15.53	15.67	50.1	50.0	0
Endrin aldehyde	16.14	16.07	16.21	55.7	50.0	11
Methoxychlor	16.59	16.52	16.66	52.1	50.0	4
Endosulfan sulfate	16.99	16.92	17.06	52.6	50.0	5
Endrin ketone	17.52	17.45	17.59	52.4	50.0	5
Decachlorobiphenyl	19.50	19.43	19.57	56.7	50.0	13

Average % Difference : 7

COMPOUNDS	RT	RT Window		Calc. Amount	Known Amount	% Diff.
		From	To	(ng)	(ng)	
Tetrachloro-m-xylene	8.33	8.28	8.38	49.2	50.0	-2
alpha-BHC	9.92	9.87	9.97	51.0	50.0	2
gamma-BHC	10.77	10.72	10.82	50.3	50.0	1
beta-BHC	11.00	10.95	11.05	49.8	50.0	0
delta-BHC	11.66	11.61	11.71	53.8	50.0	8
Heptachlor	11.75	11.70	11.80	49.5	50.0	-1
Aldrin	12.44	12.39	12.49	49.2	50.0	-2
Heptachlor epoxide	13.67	13.62	13.72	50.0	50.0	0
gamma-Chlordane	14.05	13.98	14.12	50.1	50.0	0
alpha-Chlordane	14.35	14.28	14.42	50.5	50.0	1
Endosulfan I	14.45	14.38	14.52	50.7	50.0	1
4,4'-DDE	14.74	14.67	14.81	51.1	50.0	2
Dieldrin	15.01	14.94	15.08	51.1	50.0	2
Endrin	15.61	15.54	15.68	51.0	50.0	2
4,4'-DDD	15.88	15.81	15.95	53.3	50.0	7
Endosulfan II	16.04	15.97	16.11	51.0	50.0	2
4,4'-DDT	16.49	16.42	16.56	47.5	50.0	-5
Endrin aldehyde	16.71	16.64	16.78	51.4	50.0	3
Endosulfan sulfate	17.25	17.18	17.32	52.6	50.0	5
Methoxychlor	17.87	17.80	17.94	48.1	50.0	-4
Endrin ketone	18.28	18.21	18.35	51.6	50.0	3
Decachlorobiphenyl	20.67	20.60	20.74	50.4	50.0	1

Average % Difference : 2

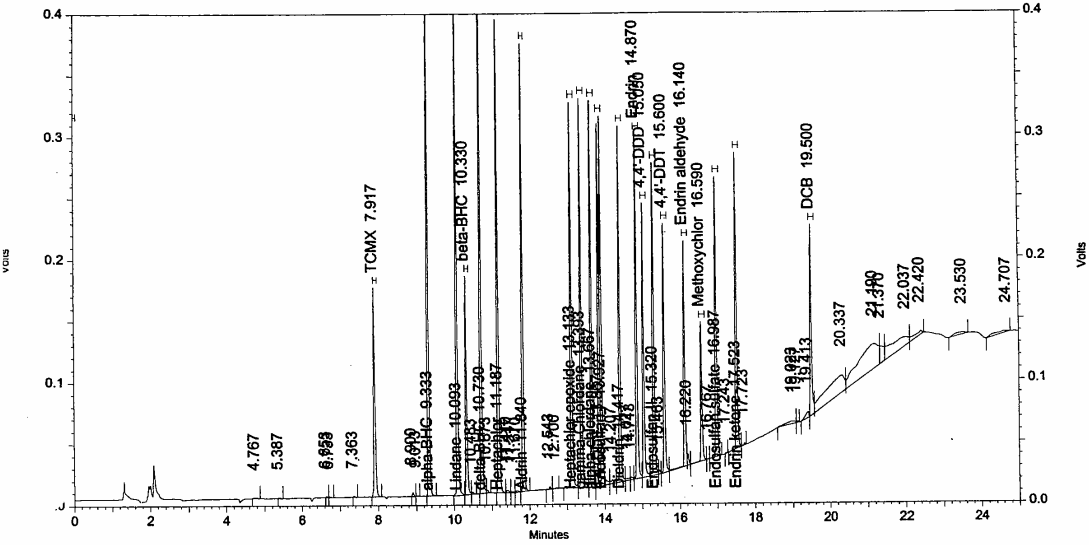
4,4'-DDT % BD (1) : 11.0 Endrin % BD (1) : 3.3
Combined % Breakdown (1) : 14.3

4,4'-DDT % BD (2) : 10.9 Endrin % BD (2) : 2.9
Combined % Breakdown (2) : 13.8

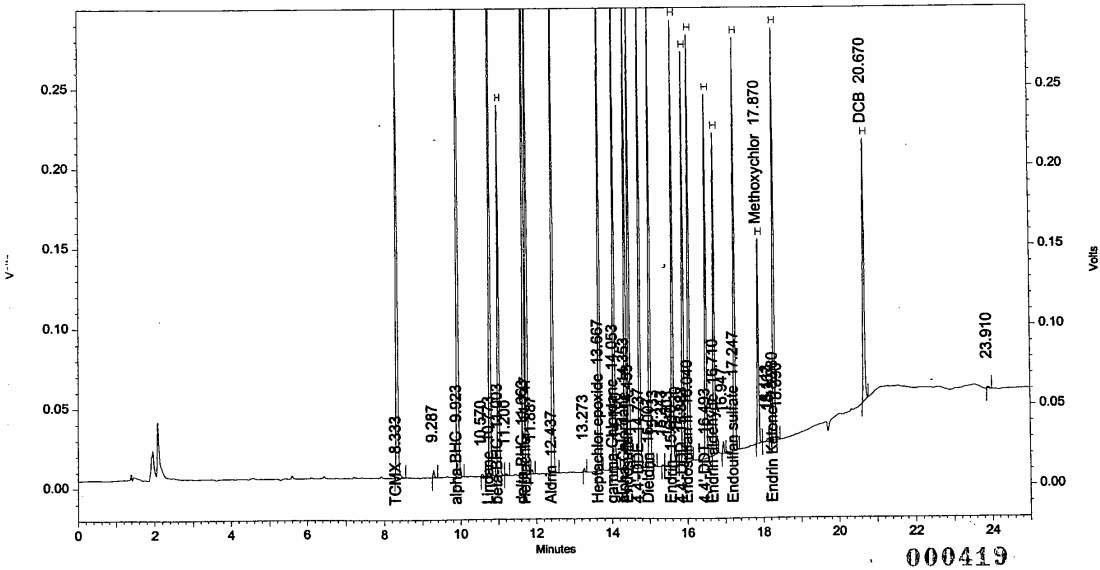
Specialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.023
Sample Name : pest 0.05 (4-w-mc-222-3)
Acquired : 5/10/2000 07:29:09
Method : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.5 um)



Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)



Specialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : **C:\Chrom231\PE#9\public\050900p9.023**
Sample Name : **pest 0.05 (4-w-mc-222-3)**
Acquired : **5/10/2000 07:29:09**
Method : **C:\Chrom231\Methods\pest PE#9DOC.met**

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
TCMX	7.92	444398	0.0514
alpha-BHC	9.33	1038374	0.0530
Lindane	10.09	981494	0.0534
beta-BHC	10.33	447654	0.0533
delta-BHC	10.73	1117926	0.0572
Heptachlor	11.19	932611	0.0524
Aldrin	11.84	882656	0.0520
Heptachlor epoxide	13.13	777086	0.0521
gamma-Chlordane	13.39	805788	0.0529
alpha-chlordane	13.67	783914	0.0526
4,4'-DDE	13.87	710933	0.0479
Endosulfan I	13.93	792543	0.0595
Dieldrin	14.42	733209	0.0535
Endrin	14.87	705869	0.0530
4,4'-DDD	15.05	563687	0.0565
Endosulfan II	15.32	657115	0.0541
4,4'-DDT	15.60	511353	0.0501
Endrin aldehyde	16.14	485493	0.0557
Methoxychlor	16.59	294971	0.0521
Endosulfan sulfate	16.99	569572	0.0526
Endrin ketone	17.52	623368	0.0524
DCB	19.50	426769	0.0567

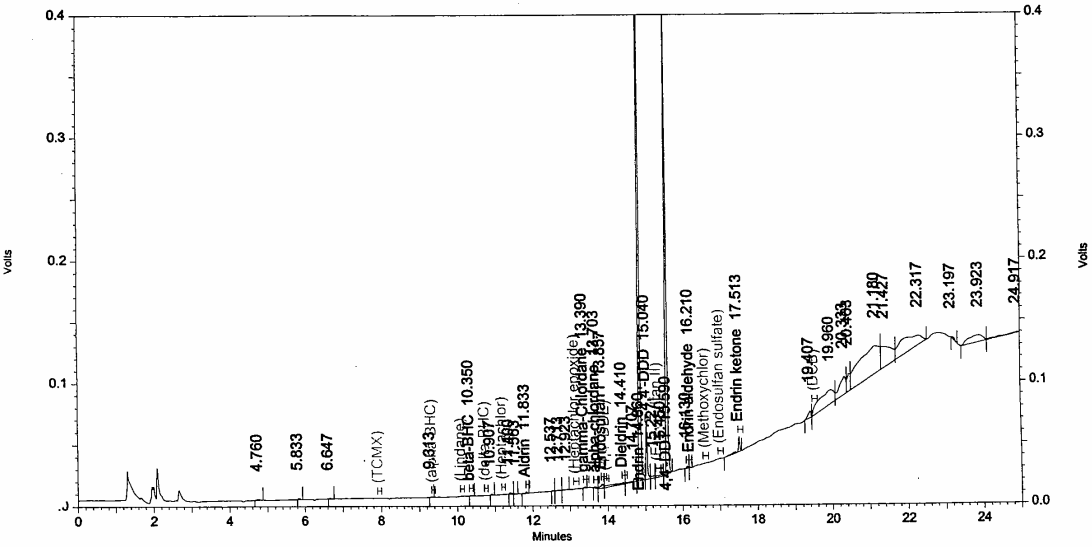
Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
TCMX	8.33	753420	0.0492
alpha-BHC	9.92	1123253	0.0510
Lindane	10.77	1029740	0.0503
beta-BHC	11.00	543442	0.0498
delta-BHC	11.66	1115792	0.0538
Heptachlor	11.75	928859	0.0495
Aldrin	12.44	905344	0.0492
Heptachlor epoxide	13.67	794347	0.0500
gamma-Chlordane	14.05	808120	0.0501
alpha-Chlordane	14.35	797136	0.0505
Endosulfan I	14.45	739917	0.0507
4,4'-DDE	14.74	734888	0.0511
Dieldrin	15.01	731343	0.0511
Endrin	15.61	677946	0.0510
4,4'-DDD	15.88	608196	0.0533
Endosulfan II	16.04	649426	0.0510
4,4'-DDT	16.49	537882	0.0475
Endrin aldehyde	16.71	499197	0.0514
Endoulfan sulfate	17.25	612080	0.0526
Methoxychlor	17.87	299657	0.0481
Endrin Ketone	18.28	637649	0.0516
DCB	20.67	414087	0.0504

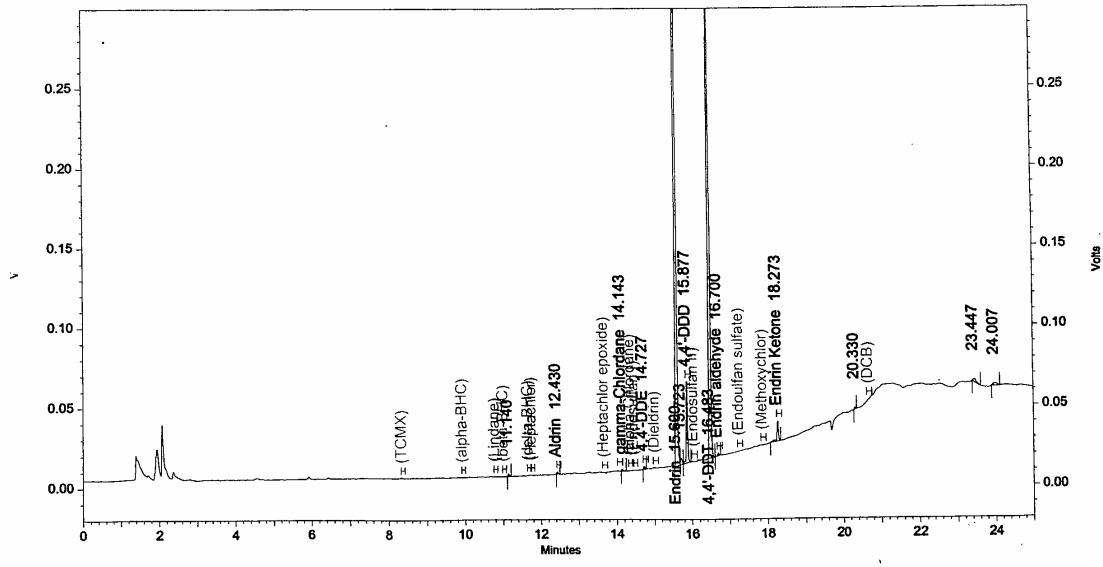
Specialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.022
Sample Name : breakdown (4-w-ah-117-5) CR pest verify 0.05
Acquired : 5/10/2000 06:49:02
Method : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.5 um)



Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)



S ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.022
Sample Name : breakdown (4-w-ah-117-5) CR pest verify 0.05
Acquired : 5/10/2000 06:49:02
Method : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
TCMX			0.0000 BDL
alpha-BHC			0.0000 BDL
Lindane			0.0000 BDL
beta-BHC	10.35	1907	0.0002
delta-BHC			0.0000 BDL
Heptachlor			0.0000 BDL
Aldrin	11.83	3731	0.0002
Heptachlor epoxide			0.0000 BDL
gamma-Chlordane	13.39	2564	0.0002
alpha-chlordane	13.70	5286	0.0004
Endosulfan I	13.86	17706	0.0013
4,4'-DDE			0.0000 BDL
Dieldrin	14.41	43347	0.0032
Endrin	14.86	1340130	0.1007
4,4'-DDD	15.04	117405	0.0118
Endosulfan II			0.0000 BDL
4,4'-DDT	15.59	949163	0.0930
Endrin aldehyde	16.21	1942	0.0002
Methoxychlor			0.0000 BDL
Endosulfan sulfate			0.0000 BDL
Endrin ketone	17.51	44126	0.0037
DCB			0.0000 BDL

Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
TCMX			0.0000 BDL
alpha-BHC			0.0000 BDL
Lindane			0.0000 BDL
beta-BHC			0.0000 BDL
delta-BHC			0.0000 BDL
Heptachlor			0.0000 BDL
Aldrin	12.43	2302	0.0001
Heptachlor epoxide			0.0000 BDL
gamma-Chlordane	14.14	2377	0.0001
alpha-Chlordane			0.0000 BDL
Endosulfan I			0.0000 BDL
4,4'-DDE	14.73	3528	0.0002
Dieldrin			0.0000 BDL
Endrin	15.60	1286441	0.0968
4,4'-DDD	15.88	119549	0.0105
Endosulfan II			0.0000 BDL
4,4'-DDT	16.48	1003121	0.0887
Endrin aldehyde	16.70	4365	0.0004
Endoulfan sulfate			0.0000 BDL
Methoxychlor			0.0000 BDL
Endrin Ketone	18.27	34392	0.0028
DCB			0.0000 BDL

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name : SPECIALIZED ASSAYS
Lab Code : SASSAYS

SDG : 189955

EPA Sample ID (BD) : BD02
Lab Sample ID (BD) : BREAKDOWN
EPA Sample ID (CCV) : CCV02
Lab Sample ID (CCV) : 0.05 PEST

Date Analyzed : 5/10/00
Time Analyzed : 11:31
Date Analyzed : 5/10/00
Time Analyzed : 12:12

GC Column (1) : RTX CLPesticides ID : 30 m x 0.32 mm
Initial Calibration Date(s) : 5/9/00

GC Column (2) : RTX CLPesticides II ID : 30 m x 0.32 mm
Initial Calibration Date(s) : 5/9/00

COMPOUNDS	RT	RT Window		Calc. Amount	Known Amount	% Diff.	COMPOUNDS	RT	RT Window		Calc. Amount	Known Amount	% Diff.
		From	To	(ng)	(ng)				From	To	(ng)	(ng)	
Tetrachloro-m-xylene	7.96	7.91	8.01	52.0	50.0	4	Tetrachloro-m-xylene	8.38	8.33	8.43	49.1	50.0	-2
alpha-BHC	9.38	9.33	9.43	53.5	50.0	7	alpha-BHC	9.97	9.92	10.02	50.4	50.0	1
gamma-BHC	10.14	10.09	10.19	53.4	50.0	7	gamma-BHC	10.82	10.77	10.87	49.5	50.0	-1
beta-BHC	10.38	10.33	10.43	53.1	50.0	6	beta-BHC	11.05	11.00	11.10	49.0	50.0	-2
delta-BHC	10.78	10.73	10.83	56.4	50.0	13	delta-BHC	11.71	11.66	11.76	51.8	50.0	4
Heptachlor	11.23	11.18	11.28	51.0	50.0	2	Heptachlor	11.79	11.74	11.84	47.9	50.0	-4
Aldrin	11.89	11.84	11.94	50.7	50.0	1	Aldrin	12.49	12.44	12.54	47.1	50.0	-6
Heptachlor epoxide	13.18	13.13	13.23	51.9	50.0	4	Heptachlor epoxide	13.71	13.66	13.76	47.3	50.0	-5
gamma-Chlordane	13.44	13.37	13.51	50.7	50.0	1	gamma-Chlordane	14.10	14.03	14.17	47.0	50.0	-6
alpha-Chlordane	13.71	13.64	13.78	49.6	50.0	-1	alpha-Chlordane	14.40	14.33	14.47	46.9	50.0	-6
4,4'-DDE	13.91	13.84	13.98	49.3	50.0	-1	Endosufan I	14.50	14.43	14.57	47.1	50.0	-6
Endosulfan I	13.97	13.90	14.04	51.8	50.0	4	4,4'-DDE	14.79	14.72	14.86	47.2	50.0	-6
Dieldrin	14.47	14.40	14.54	50.0	50.0	0	Dieldrin	15.06	14.99	15.13	47.1	50.0	-6
Endrin	14.92	14.85	14.99	49.5	50.0	-1	Endrin	15.66	15.59	15.73	46.6	50.0	-7
4,4'-DDD	15.10	15.03	15.17	51.0	50.0	2	4,4'-DDD	15.93	15.86	16.00	48.2	50.0	-4
Endosulfan II	15.37	15.30	15.44	50.2	50.0	0	Endosulfan II	16.09	16.02	16.16	47.0	50.0	-6
4,4'-DDT	15.65	15.58	15.72	48.0	50.0	-4	4,4'-DDT	16.54	16.47	16.61	44.8	50.0	-10
Endrin aldehyde	16.19	16.12	16.26	51.3	50.0	3	Endrin aldehyde	16.76	16.69	16.83	47.8	50.0	-4
Methoxychlor	16.64	16.57	16.71	48.9	50.0	-2	Endosulfan sulfate	17.30	17.23	17.37	48.3	50.0	-3
Endosulfan sulfate	17.04	16.97	17.11	51.9	50.0	4	Methoxychlor	17.92	17.85	17.99	45.4	50.0	-9
Endrin ketone	17.58	17.51	17.65	51.4	50.0	3	Endrin ketone	18.34	18.27	18.41	48.3	50.0	-3
Decachlorobiphenyl	19.55	19.48	19.62	53.9	50.0	8	Decachlorobiphenyl	20.73	20.66	20.80	49.2	50.0	-2

Average % Difference : 4

Average % Difference : 5

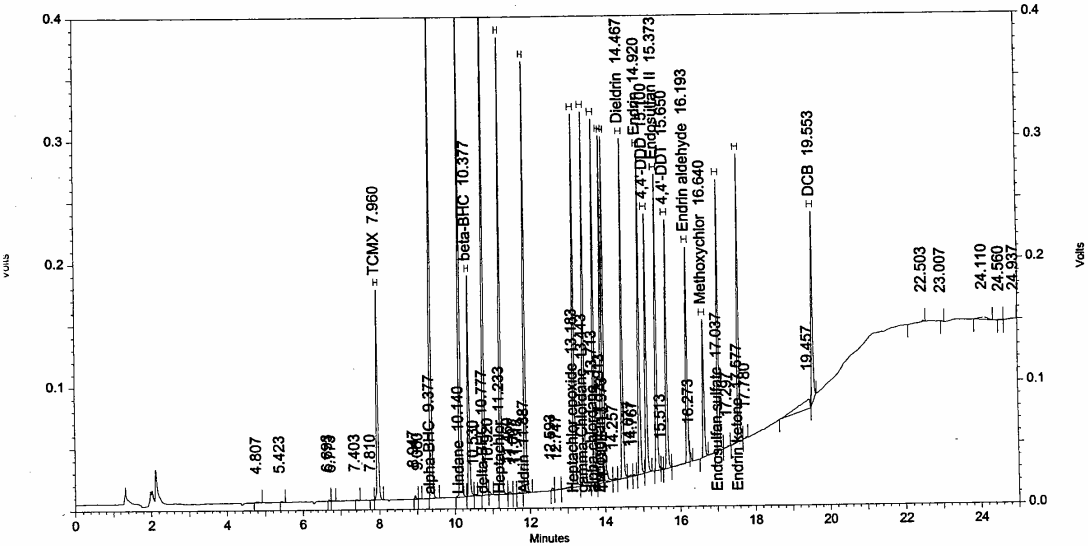
4,4'-DDT % BD (1) : 9.8 Endrin % BD (1) : 4.0
Combined % Breakdown (1) : 13.7

4,4'-DDT % BD (2) : 8.6 Endrin % BD (2) : 4.0
Combined % Breakdown (2) : 12.6

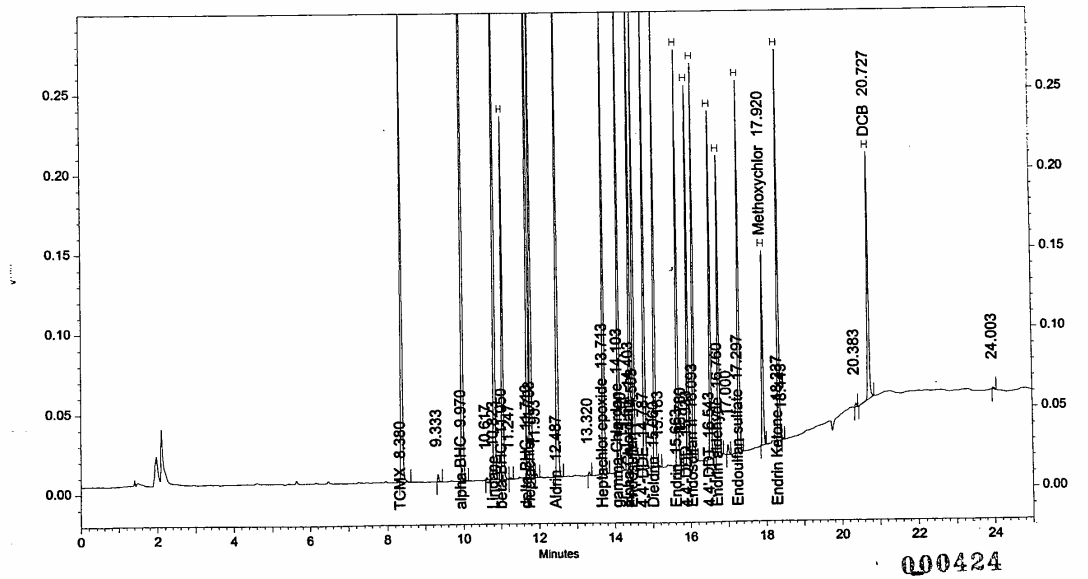
S ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.030
Sa nple Name : pest 0.05 (4-w-mc-222-3)
Ac ired : 5/10/2000 12:12:03
Methc C:\Chrom231\Methods\pest PE#9.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.5 um)



Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)



000424

S ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.030
Sample Name : pest 0.05 (4-w-mc-222-3)
Acquired : 5/10/2000 12:12:03
Method : C:\Chrom231\Methods\pest PE#9.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
CMX	7.96	450150	0.0520
alpha-BHC	9.38	1049018	0.0535
Lindane	10.14	980645	0.0534
beta-BHC	10.38	446219	0.0531
delta-BHC	10.78	1102607	0.0564
Heptachlor	11.23	907292	0.0510
Aldrin	11.89	860336	0.0507
Heptachlor epoxide	13.18	774141	0.0519
gamma-Chlordane	13.44	773435	0.0507
alpha-chlordane	13.71	738397	0.0496
Endosulfan I	13.91	656311	0.0493
4,4'-DDE	13.97	768218	0.0518
Dieldrin	14.47	684649	0.0500
Endrin	14.92	658461	0.0495
4,4'-DDD	15.10	508870	0.0510
Endosulfan II	15.37	609586	0.0502
4,4'-DDT	15.65	490369	0.0480
Endrin aldehyde	16.19	447364	0.0513
Methoxychlor	16.64	276859	0.0489
Endosulfan sulfate	17.04	562344	0.0519
Endrin ketone	17.58	611357	0.0514
DCB	19.55	405667	0.0539

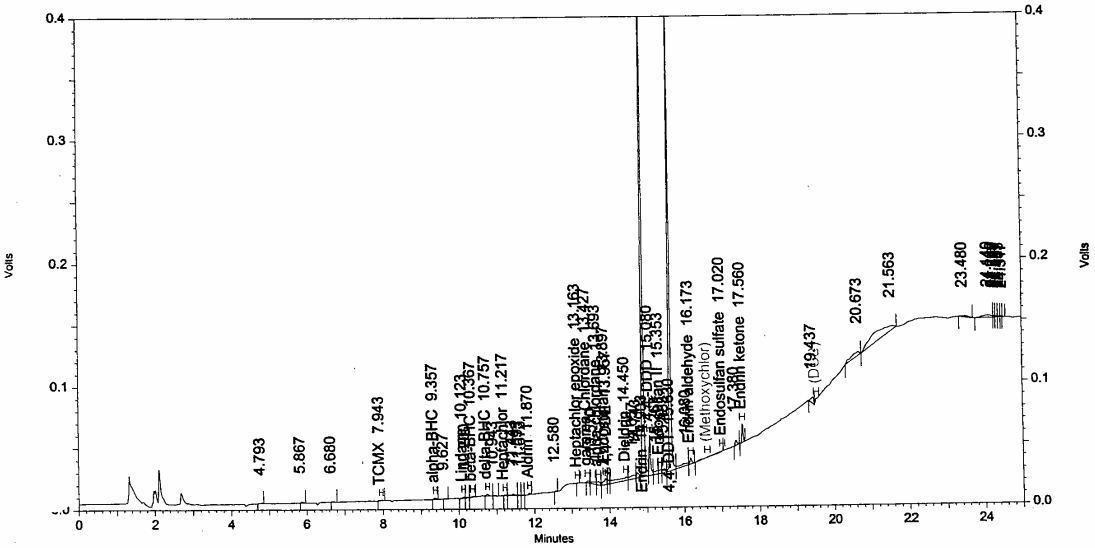
Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
CMX	8.38	751779	0.0491
alpha-BHC	9.97	1110323	0.0504
Lindane	10.82	1012772	0.0495
beta-BHC	11.05	535537	0.0490
delta-BHC	11.71	1073257	0.0518
Heptachlor	11.79	898066	0.0479
Aldrin	12.49	867763	0.0471
Heptachlor epoxide	13.71	750783	0.0473
gamma-Chlordane	14.10	758614	0.0470
alpha-Chlordane	14.40	741464	0.0469
Endosulfan I	14.50	688439	0.0471
4,4'-DDE	14.79	679473	0.0472
Dieldrin	15.06	674263	0.0471
Endrin	15.66	620083	0.0466
4,4'-DDD	15.93	549104	0.0482
Endosulfan II	16.09	598567	0.0470
4,4'-DDT	16.54	506320	0.0448
Endrin aldehyde	16.76	464007	0.0478
Endoulfan sulfate	17.30	562440	0.0483
Methoxychlor	17.92	283017	0.0454
Endrin Ketone	18.34	596965	0.0483
DCB	20.73	404076	0.0492

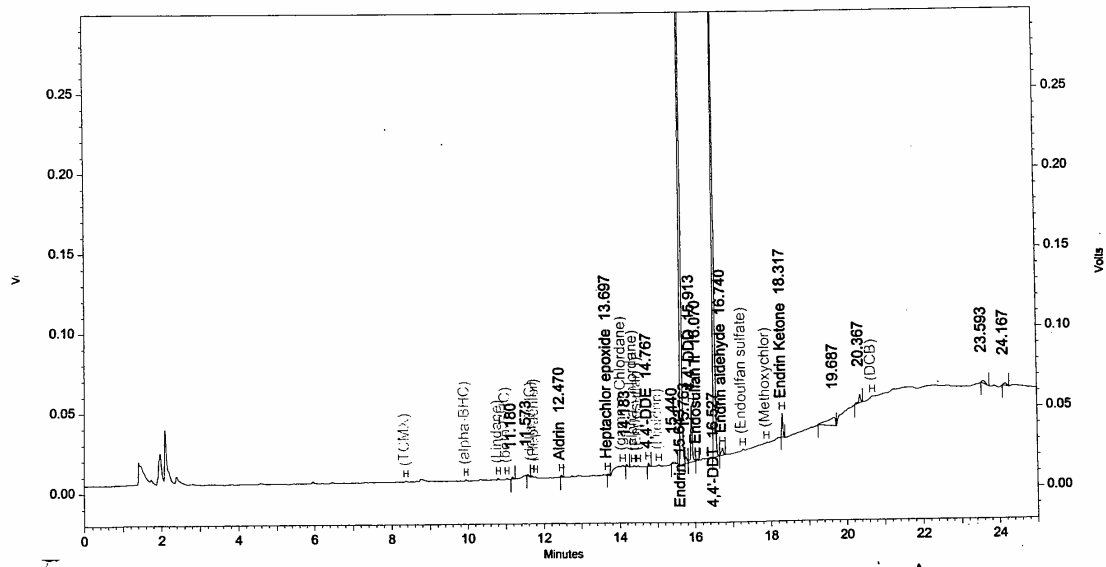
Specialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.029
Sample Name : breakdown (4-w-ah-117-5) CR pest verify 0.05
Acquired : 5/10/2000 11:31:41
Method : C:\Chrom231\Methods\pest PE#9.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.5 um)



Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)



S ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

ile Name : C:\Chrom231\PE#9\public\050900p9.029
a ple Name : breakdown (4-w-ah-117-5) CR pest verify 0.05
q red : 5/10/2000 11:31:41
Methr C:\Chrom231\Methods\pest PE#9.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.25 um)

N me	Retention Time	Area	ESTD concentration
T MX	7.94	3367	0.0004
alpha-BHC	9.36	4215	0.0002
L dane	10.12	6950	0.0004
b a-BHC	10.37	2600	0.0003
delta-BHC	10.76	5293	0.0003
Heptachlor	11.22	1759	0.0001
A lrin	11.87	4645	0.0003
heptachlor epoxide	13.16	1370	0.0001
gamma-Chlordane	13.43	6280	0.0004
a ha-chlordane	13.69	16634	0.0011
E dosulfan I	13.90	27926	0.0021
4,4'-DDE	13.96	12966	0.0009
D eldrin	14.45	68193	0.0050
E drin	14.90	1307322	0.0982
4,4'-DDD	15.08	94876	0.0095
Endosulfan II	15.35	15956	0.0013
4 4'-DDT	15.63	995114	0.0975
L drin aldehyde	16.17	17715	0.0020
Methoxychlor			0.0000 BDL
I dosulfan sulfate	17.02	6358	0.0006
I ketone	17.56	36314	0.0031
DCB			0.0000 BDL

C annel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
CMX			0.0000 BDL
pha-BHC			0.0000 BDL
Lindane			0.0000 BDL
ta-BHC			0.0000 BDL
lta-BHC			0.0000 BDL
Heptachlor			0.0000 BDL
Aldrin	12.47	2789	0.0002
eptachlor epoxide	13.70	2467	0.0002
gamma-Chlordane			0.0000 BDL
alpha-Chlordane			0.0000 BDL
ndosulfan I			0.0000 BDL
4'-DDE	14.77	4522	0.0003
Dieldrin			0.0000 BDL
ndrin	15.64	1214488	0.0913
4'-DDD	15.91	90106	0.0079
Endosulfan II	16.07	3724	0.0003
4,4'-DDT	16.53	1002886	0.0887
ndrin aldehyde	16.74	17739	0.0018
ndoulfan sulfate			0.0000 BDL
Me xychlor			0.0000 BDL
ne Ketone	18.32	32881	0.0027
CB			0.0000 BDL

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

BLANK

Matrix: Soil
% Dry Weight: 100
Units: UG/KG
Dilution Factor: 1
Analysis Method: SW8081
Delivery Group: 189733
Instrument: PE-9
Grams Extracted: 30.0 g
Extract Vol: 10.0 ml

Lab Sample ID: BLANK
Date Sampled:
Date Received:
Analysis Date: 5/10/00
Analysis Time: 10:10
Sample QC Group: 310

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION Col#1	Flag	Col#2	Flag
309-00-2	Aldrin	1.66	U	1.66	U
319-84-6	a-BHC	1.66	U	1.66	U
319-85-7	b-BHC	1.66	U	1.66	U
319-86-8	d-BHC	1.66	U	1.66	U
58-89-9	g-BHC, Lindane	1.66	U	1.66	U
72-54-8	4,4'-DDD	3.33	U	3.33	U
72-55-9	4,4'-DDE	3.33	U	3.33	U
50-29-3	4,4'DDT	3.33	U	3.33	U
60-57-1	Dieldrin	3.33	U	3.33	U
959-98-8	Endosulfan I	1.66	U	1.66	U
33213-65-9	Endosulfan II	3.33	U	3.33	U
1031-07-8	Endosulfan sulfate	3.33	U	3.33	U
72-20-8	Endrin	3.33	U	3.33	U
7421-93-4	Endrin aldehyde	3.33	U	3.33	U
53494-70-5	Endrin Ketone	3.33	U	3.33	U
76-44-8	Heptachlor	1.66	U	1.66	U
111024-57-3	Heptachlor epoxide	1.66	U	1.66	U
72-43-5	Methoxychlor	16.6	U	16.6	U
8001-35-2	Toxaphene	166.	U	166.	U
5103-71-9	alpha-Chlordane	1.66	U	1.66	U
5103-74-2	gamma-Chlordane	1.66	U	1.66	U

COPY 1

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name : SPECIALIZED ASSAYS
Lab Code : SASSAYS SDG : 189955

264722MS

Matrix (soil/water) :	soil			
Sample wt/vol :	30	(g)		
%Moisture :	14	%	Decanted (Y/N) :	No
Extraction :	Sonc.		Lab Sample ID :	12306 ssp
Extract Volume :	10000	(uL)	Lab File ID :	050900p9.012
Injection Volume :	1.0	(uL)	Date Received :	4/28/00
GPC Cleanup (Y/N) :	No		Date Extracted :	5/2/00
pH :			Date Analyzed :	5/10/00
Sulfur Cleanup (Y/N) :	No		Dilution Factor :	1

CAS NO.	COMPOUND	CONCENTRATION UNITS : (ug/kg)	Q
319-84-6	alpha-BHC	12.9	
319-85-7	beta-BHC	14.0	
319-86-8	delta-BHC	21.8	
58-89-9	gamma-BHC	11.6	
76-44-8	Heptachlor	16.0	
309-00-2	Aldrin	15.4	
1024-57-3	Heptachlor epoxide	17.0	
959-98-8	Endosulfan I	15.7	
60-57-1	Dieldrin	12.9	
72-55-9	4,4' -DDE	16.9	
72-20-8	Endrin	15.9	
33213-65-9	Endosulfan II	14.9	
72-54-8	4,4' -DDD	14.8	
1031-07-8	Endosulfan sulfate	6.6	
50-29-3	4,4' -DDT	15.7	
72-43-5	Methoxychlor	19.6	
53494-70-5	Endrin ketone	16.2	
7421-36-3	Endrin aldehyde	1.4	
5103-71-9	alpha-Chlordane	15.2	
5103-74-2	gamma-Chlordane	16.4	
8001-35-2	Toxaphene	191	U

Specialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.027
Sample Name : 12305 sbp
Acquired : 5/10/2000 10:10:20
Method : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
TCMX	7.95	397538	0.0459
alpha-BHC	9.41	15689	0.0008
Lindane			0.0000 BDL
beta-BHC	10.39	34951	0.0042
delta-BHC	10.73	173558	0.0089
Heptachlor	11.21	46040	0.0026
Aldrin	11.87	18028	0.0011
Heptachlor epoxide	13.21	34376	0.0023
gamma-Chlordane	13.43	68724	0.0045
alpha-chlordane			0.0000 BDL
Endosulfan I	13.91	31153	0.0023
4,4'-DDE			0.0000 BDL
Dieldrin	14.47	100508	0.0073
Endrin	14.83	85559	0.0064
4,4'-DDD	15.09	34239	0.0034
Endosulfan II	15.32	105978	0.0087
4,4'-DDT	15.63	65602	0.0064
Endrin aldehyde	16.17	26899	0.0031
Methoxychlor	16.67	79419	0.0140
Endosulfan sulfate			0.0000 BDL
Endrin Ketone			0.0000 BDL
DCB	19.55	556810	0.0739

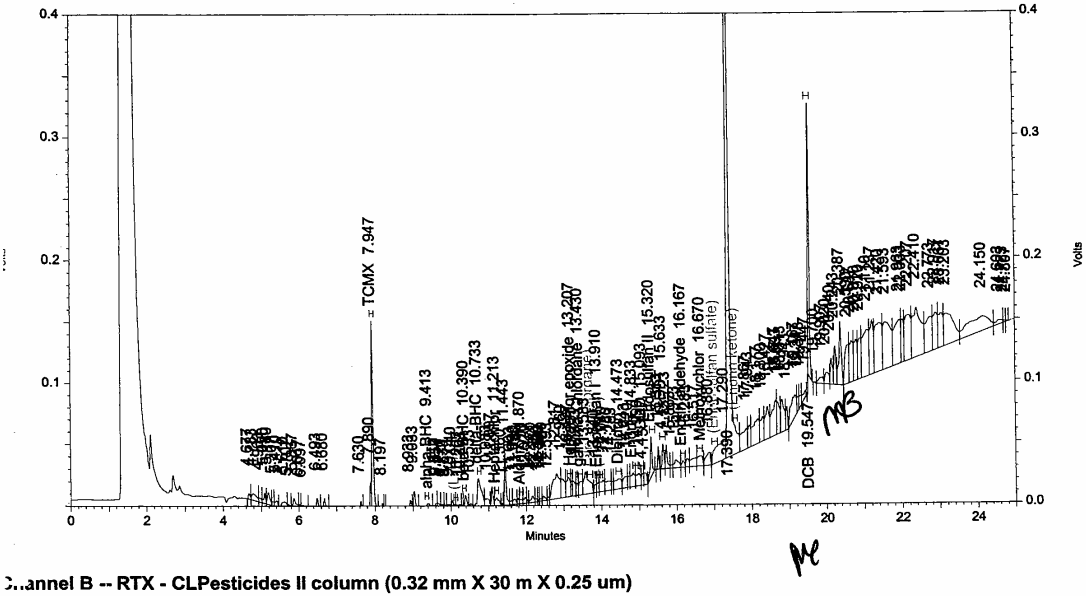
Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
TCMX	8.37	644893	0.0421
alpha-BHC	9.96	20387	0.0009
Lindane			0.0000 BDL
beta-BHC	10.98	52264	0.0048
delta-BHC			0.0000 BDL
Heptachlor	11.74	78931	0.0042
Aldrin	12.48	20013	0.0011
Heptachlor epoxide	13.73	60410	0.0038
gamma-Chlordane	14.06	48950	0.0030
alpha-Chlordane	14.43	40189	0.0025
Endosulfan I	14.52	3119	0.0002
4,4'-DDE	14.75	7088	0.0005
Dieldrin	15.07	10967	0.0008
Endrin	15.64	26609	0.0020
4,4'-DDD			0.0000 BDL
Endosulfan II			0.0000 BDL
4,4'-DDT			0.0000 BDL
Endrin aldehyde	16.70	29768	0.0031
Endosulfan sulfate	17.29	40561	0.0035
Methoxychlor	17.83	7424	0.0012
Endrin Ketone	18.31	749883	0.0607
DCB	20.72	556655	0.0678

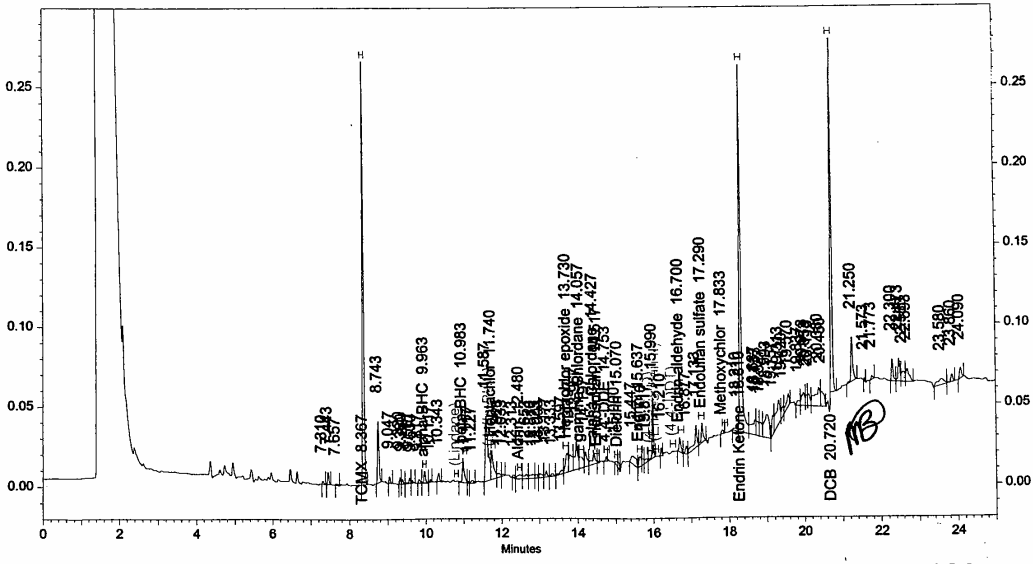
Specialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.027
Sample Name : 12305 sbp
Acquired : 5/10/2000 10:10:20
Method : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.5 um)



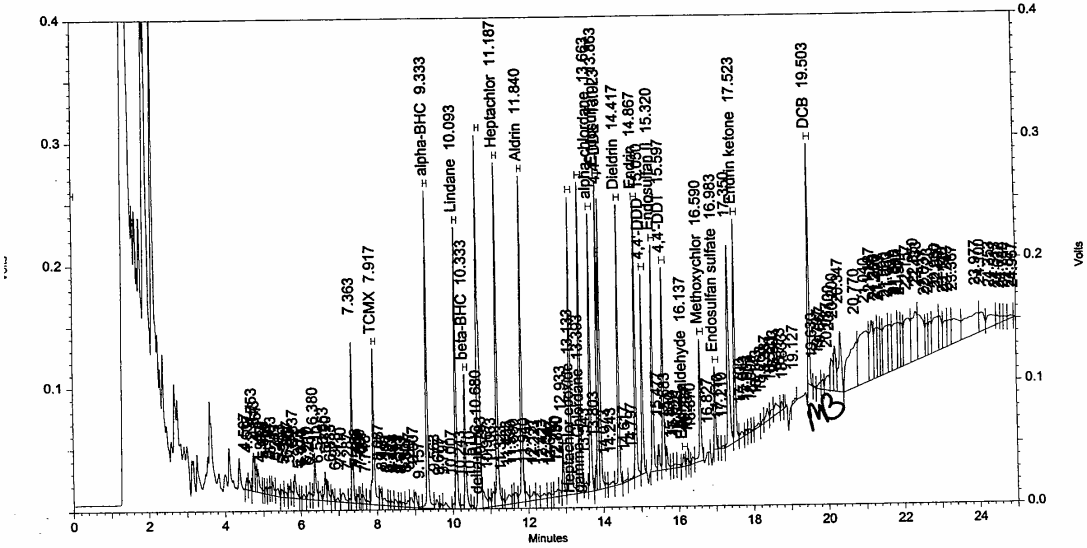
Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)



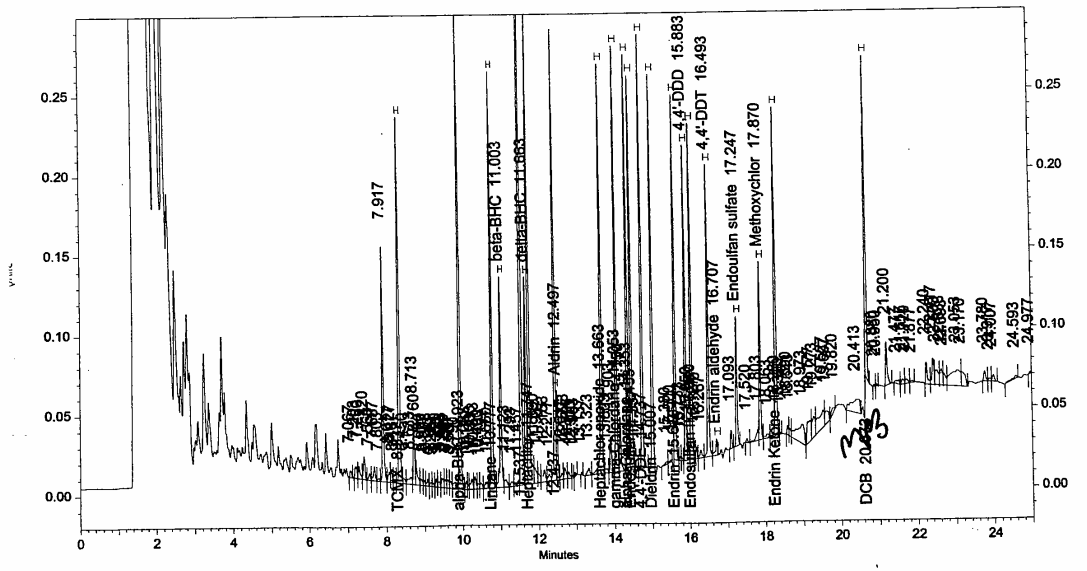
Specialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.012
Sample Name : 12306 ssp
Acquired : 5/10/2000 00:06:21
Method : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.5 um)



Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)



1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name : SPECIALIZED ASSAYS
Lab Code : SASSAYS SDG : 189955

264722MSD

Matrix (soil/water) : soil
Sample wt/vol : 30 (g)
%Moisture : 14 %
Extraction : Sonc.
Extract Volume : 10000 (uL)
Injection Volume : 1.0 (uL)
GPC Cleanup (Y/N) : No
pH :
Sulfur Cleanup (Y/N) : No

Decanted (Y/N) : No
Lab Sample ID : 12307 ssp
Lab File ID : 050900p9.013
Date Received : 4/28/00
Date Extracted : 5/2/00
Date Analyzed : 5/10/00
Dilution Factor : 1

CAS NO.	COMPOUND	CONCENTRATION UNITS : (ug/kg)	Q
319-84-6	alpha-BHC	10.3	
319-85-7	beta-BHC	13.1	
319-86-8	delta-BHC	27.5	
58-89-9	gamma-BHC	8.1	
76-44-8	Heptachlor	15.4	
309-00-2	Aldrin	14.5	
1024-57-3	Heptachlor epoxide	16.3	
959-98-8	Endosulfan I	14.4	
60-57-1	Dieldrin	10.0	
72-55-9	4,4' -DDE	19.0	
72-20-8	Endrin	16.5	
33213-65-9	Endosulfan II	15.7	
72-54-8	4,4' -DDD	13.6	
1031-07-8	Endosulfan sulfate	3.5	
50-29-3	4,4' -DDT	12.7	
72-43-5	Methoxychlor	14.0	
53494-70-5	Endrin ketone	13.4	
7421-36-3	Endrin aldehyde	2.2	
5103-71-9	alpha-Chlordane	14.2	
5103-74-2	gamma-Chlordane	15.4	
8001-35-2	Toxaphene	193	U

S ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.012
Sample Name : 12306 ssp
Acquired : 5/10/2000 00:06:21
Method : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
TCMX	7.92	423788	0.0490
alpha-BHC	9.33	659635	0.0337
Lindane	10.09	554898	0.0302
beta-BHC	10.33	308111	0.0367
delta-BHC	10.68	1112920	0.0569
Heptachlor	11.19	744177	0.0418
Aldrin	11.84	681558	0.0401
Heptachlor epoxide	13.13	661938	0.0444
gamma-Chlordane	13.39	653167	0.0429
alpha-chlordane	13.66	578319	0.0388
Endosulfan I	13.86	589424	0.0442
4,4'-DDE	13.92	608237	0.0410
Dieldrin	14.42	566940	0.0414
Endrin	14.87	554810	0.0417
4,4'-DDD	15.05	381723	0.0383
Endosulfan II	15.32	467771	0.0385
4,4'-DDT	15.60	419332	0.0411
Endrin aldehyde	16.14	32740	0.0038
Methoxychlor	16.59	290403	0.0513
Endosulfan sulfate	16.98	164775	0.0152
Endrin ketone	17.52	485699	0.0408
DCB	19.50	490752	0.0652

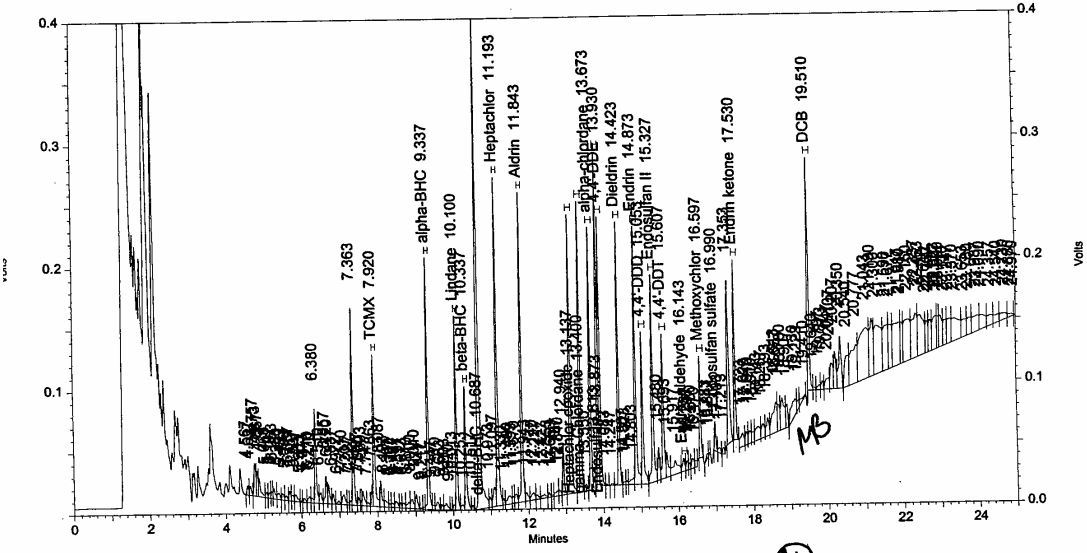
Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
TCMX	8.34	577215	0.0377
alpha-BHC	9.92	741984	0.0337
Lindane	10.78	603034	0.0295
beta-BHC	11.00	344538	0.0315
delta-BHC	11.66	312287	0.0151
Heptachlor	11.75	761051	0.0406
Aldrin	12.50	128551	0.0070
Heptachlor epoxide	13.66	655461	0.0413
gamma-Chlordane	14.05	637774	0.0395
alpha-Chlordane	14.35	625909	0.0396
Endosulfan I	14.45	579333	0.0397
4,4'-DDE	14.74	631942	0.0439
Dieldrin	15.01	569158	0.0398
Endrin	15.61	534028	0.0402
4,4'-DDD	15.88	441639	0.0387
Endosulfan II	16.04	495431	0.0389
4,4'-DDT	16.49	429345	0.0380
Endrin aldehyde	16.71	34509	0.0036
Endoulfan sulfate	17.25	199475	0.0171
Methoxychlor	17.87	262928	0.0422
Endrin Ketone	18.28	523472	0.0423
DCB	20.67	475237	0.0579

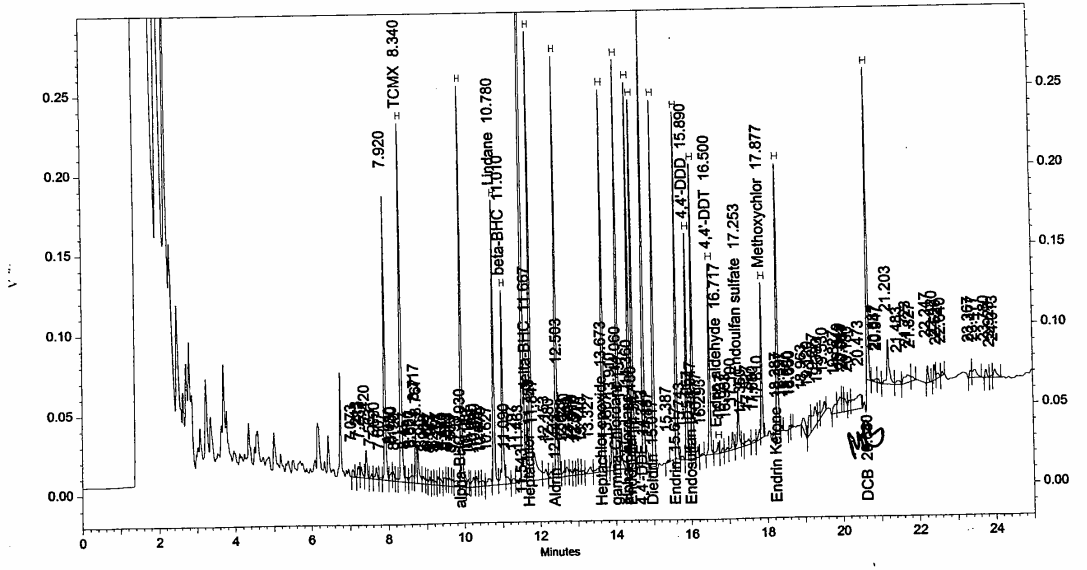
Specialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

ile Name : C:\Chrom231\PE#9\public\050900p9.013
ample Name : 12307 ssp
qu red : 5/10/2000 00:46:38
lethod : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.5 um)



Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)



1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name : SPECIALIZED ASSAYS
Lab Code : SASSAYS SDG : 189955

CONTROLS

Matrix (soil/water) :	soil			
Sample wt/vol :	30	(g)		
%Moisture :	0	%	Decanted (Y/N) :	No
Extraction :	Sonc.		Lab Sample ID :	13360 lcs
Extract Volume :	10000	(uL)	Lab File ID :	050900p9.028
Injection Volume :	1.0	(uL)	Date Received :	4/28/00
GPC Cleanup (Y/N) :	No		Date Extracted :	5/2/00
pH :			Date Analyzed :	5/10/00
Sulfur Cleanup (Y/N) :	No		Dilution Factor :	1

CAS NO.	COMPOUND	CONCENTRATION UNITS : (ug/kg)	Q
319-84-6	alpha-BHC	14.4	
319-85-7	beta-BHC	15.4	
319-86-8	delta-BHC	15.1	
58-89-9	gamma-BHC	14.5	
76-44-8	Heptachlor	14.5	
309-00-2	Aldrin	14.5	
1024-57-3	Heptachlor epoxide	15.1	
959-98-8	Endosulfan I	14.9	
60-57-1	Dieldrin	14.4	
72-55-9	4,4' -DDE	14.9	
72-20-8	Endrin	15.5	
33213-65-9	Endosulfan II	16.9	
72-54-8	4,4' -DDD	16.5	
1031-07-8	Endosulfan sulfate	16.4	
50-29-3	4,4' -DDT	15.8	
72-43-5	Methoxychlor	19.0	
53494-70-5	Endrin ketone	19.2	
7421-36-3	Endrin aldehyde	16.5	
5103-71-9	alpha-Chlordane	14.3	
5103-74-2	gamma-Chlordane	14.7	
8001-35-2	Toxaphene	167	U

;ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

ile Name : C:\Chrom231\PE#9\public\050900p9.013
ar ple Name : 12307 ssp
qu ed : 5/10/2000 00:46:38
lethc · C:\Chrom231\Methods\pest PE#9DOC.met

:hannel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.25 um)

N ne	Retention Time	Area	ESTD concentration
T MX	7.92	365878	0.0423
alpha-BHC	9.34	505134	0.0258
Li dane	10.10	384526	0.0209
b a-BHC	10.34	285190	0.0339
delta-BHC	10.69	1390594	0.0712
Heptachlor	11.19	708878	0.0399
A rin	11.84	639462	0.0377
H ptachlor epoxide	13.14	629862	0.0422
gamma-Chlordane	13.40	594866	0.0390
a ha-chlordane	13.67	524722	0.0352
E dosulfan I	13.87	637595	0.0479
4,4'-DDE	13.93	541538	0.0365
Dieldrin	14.42	528621	0.0386
E drin	14.87	567925	0.0427
4,4'-DDD	15.05	350271	0.0351
Endosulfan II	15.33	494341	0.0407
4 '-DDT	15.61	334877	0.0328
E drin aldehyde	16.14	49978	0.0057
Methoxychlor	16.60	202398	0.0357
F dosulfan sulfate	16.99	57019	0.0053
E ketone	17.53	367461	0.0309
DCb	19.51	495711	0.0658

C annel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
CMX	8.34	566975	0.0370
pha-BHC	9.93	585871	0.0266
Lindane	10.78	416528	0.0204
eta-BHC	11.01	315515	0.0289
elta-BHC	11.67	123853	0.0060
Heptachlor	11.75	693331	0.0369
Aldrin	12.44	635028	0.0345
eptachlor epoxide	13.67	617291	0.0389
amma-Chlordane	14.06	642578	0.0398
alpha-Chlordane	14.36	581653	0.0368
ndosulfan I	14.46	545181	0.0373
,4'-DDE	14.74	706251	0.0491
Dieldrin	15.02	538362	0.0376
Endrin	15.62	494184	0.0372
,4'-DDD	15.89	315109	0.0276
Endosulfan II	16.05	437088	0.0343
4,4'-DDT	16.50	281123	0.0249
ndrin aldehyde	16.72	24474	0.0025
ndoulfan sulfate	17.25	105268	0.0090
Me oxychlor	17.88	225957	0.0362
Ketone	18.29	428811	0.0347
CB	20.68	466312	0.0568

Worklist: 7228 Worklist format: pestsext Pest Sa'l 334
Created on: 4/28/00 by: C.Cothren

	Log number	Due Date	Due Time	Target Date	Project	State
1.	blank 12305 SSP					
2.	00-A58004	5/15/00		5/ 8/00	189955	IN
3.	00-A58005	5/15/00		5/ 8/00	189955	IN
4.	00-A58006	5/15/00		5/ 8/00	189955	IN
5.	00-A58007	5/15/00		5/ 8/00	189955	IN
6.	00-A58008	5/15/00		5/ 8/00	189955	IN
7.	00-A58009	5/15/00		5/ 8/00	189955	IN
8.	00-A58010	5/15/00		5/ 8/00	189955	IN
9.	00-A58011	5/15/00		5/ 8/00	189955	IN
10.	00-A58012	5/15/00		5/ 8/00	189955	IN
11.	00-A58013	5/15/00		5/ 8/00	189955	IN
12.	00-A58073	5/15/00		5/ 8/00	189955	IN
13.	Spike 12306 SSP					
14.	mspkdup 12307 SSP					
15.	known					

13360LCS

[redacted]

SW-846 DOC

PERFORMED BY: TA RM

ENTERED BY: M

VERIFIED BY: JR

FINAL APPROVAL

;p ecialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

le Name : C:\Chrom231\PE#9\public\050900p9.028
an le Name : 13360 lcs
qu ed : 5/10/2000 10:50:46
etho C:\Chrom231\Methods\pest PE#9DOC.met

hannel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.25 um)

Na ne	Retention Time	Area	ESTD concentration
TC MX	7.97	382480	0.0442
alpha-BHC	9.38	846482	0.0432
Li ane	10.15	797887	0.0434
be -BHC	10.38	388778	0.0463
delta-BHC	10.78	887452	0.0454
Heptachlor	11.24	773688	0.0435
Al in	11.89	738187	0.0435
Heptachlor epoxide	13.19	676609	0.0453
gamma-Chlordane	13.45	621275	0.0408
al a-chlordane	13.72	627231	0.0421
E losulfan I	13.92	577401	0.0433
4,4'-DDE	13.98	664202	0.0447
D ldrin	14.47	631254	0.0461
E lrin	14.92	607141	0.0456
4,4'-DDD	15.10	492978	0.0494
Endosulfan II	15.37	613925	0.0506
4 '-DDT	15.65	485052	0.0475
E..drin aldehyde	16.19	431173	0.0494
Methoxychlor	16.64	322733	0.0570
E dosulfan sulfate	17.04	524240	0.0484
E etone	17.58	684966	0.0576
DCB	19.55	530930	0.0705

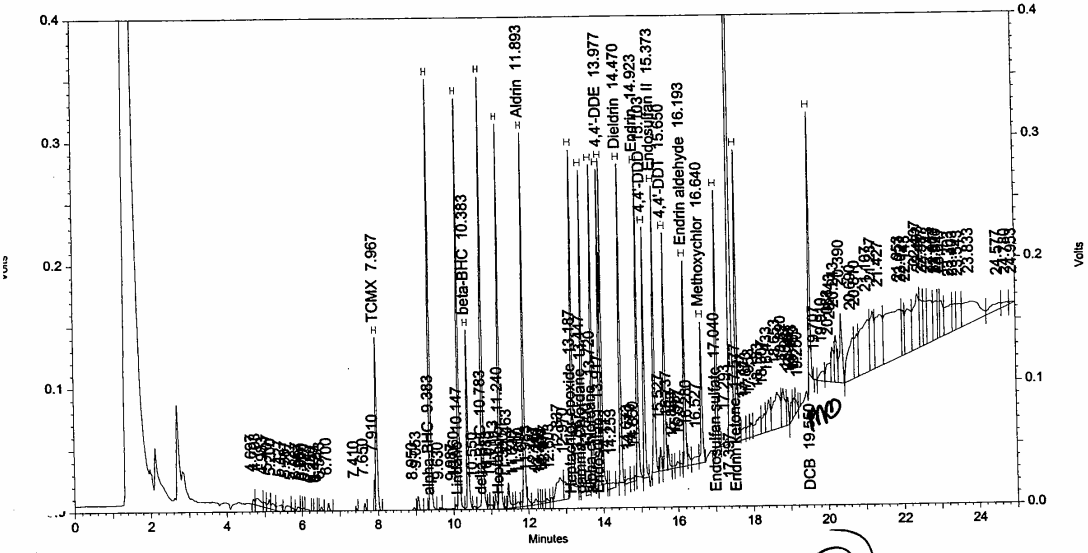
:l nnel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)

Name	Retention Time	Area	ESTD concentration
T MX	8.39	607538	0.0397
a..pha-BHC	9.98	880587	0.0400
Lindane	10.83	828753	0.0405
b ta-BHC	11.06	469439	0.0430
d lta-BHC	11.72	844993	0.0408
Heptachlor	11.80	782337	0.0417
Aldrin	12.49	727862	0.0395
H eptachlor epoxide	13.72	720262	0.0454
gamma-Chlordane	14.11	713066	0.0442
alpha-Chlordane	14.41	677697	0.0429
I ndosulfan I	14.51	631506	0.0432
4'-DDE	14.79	644422	0.0448
Dieldrin	15.06	653350	0.0456
Endrin	15.66	618051	0.0465
4'-DDD	15.94	536757	0.0471
Endosulfan II	16.10	583747	0.0459
4,4'-DDT	16.55	475740	0.0421
ndrin aldehyde	16.76	454706	0.0468
ndoulfan sulfate	17.30	572681	0.0492
Me ychlor	17.92	322216	0.0517
Ketone	18.33	1164517	0.0942
CB	20.72	522912	0.0637

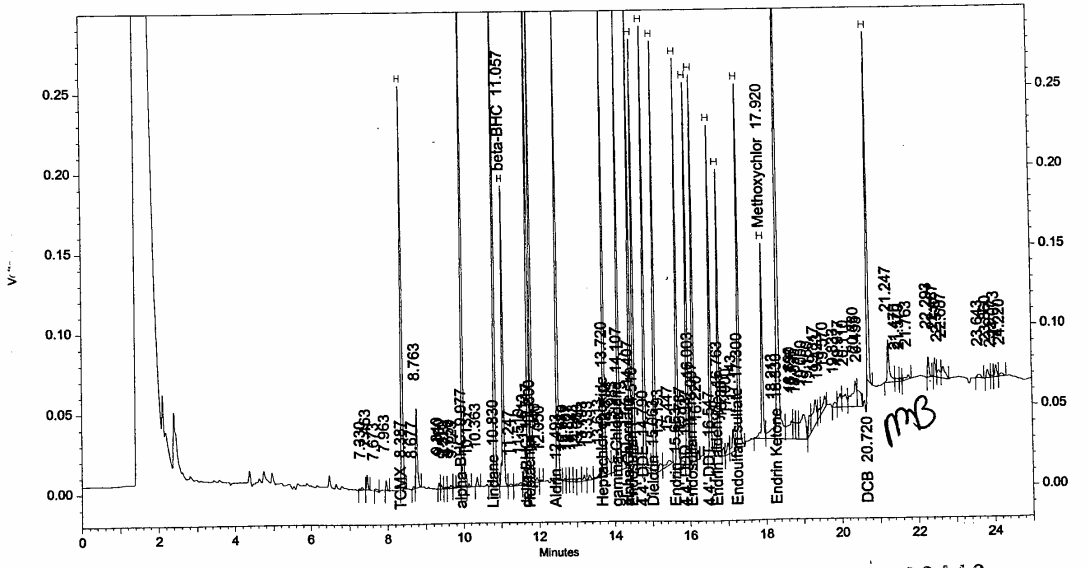
Specialized Assays, Inc. -- Extractable Organics Dual ECD Custom Report

File Name : C:\Chrom231\PE#9\public\050900p9.028
Sample Name : 13360 lcs
Acquired : 5/10/2000 10:50:46
Method : C:\Chrom231\Methods\pest PE#9DOC.met

Channel A -- RTX - CLPesticides column (0.32 mm X 30 m X 0.5 um)



Channel B -- RTX - CLPesticides II column (0.32 mm X 30 m X 0.25 um)



PEST SOIL EXTRACTIONS

Worklist #: 7228 Date Created: 4/28/00

A alyst: D.Yeager Date Extracted: 5/ 2/00

Bat #: _____ Surrogate #: _____ Amt: _____

Spike #: _____ Amt: _____

P s	Sample ID
1.	blank

Blank ID: _____

Pest Ext: Completed
Pest Grams Ext'd: 30.0
Pest Ext Volume: 10.0

2.00-A58004

Pest Ext: Completed
Pest Grams Ext'd: 30.5
Pest Ext Volume: 10.0

('O ADD 1,2-DCPE

3.00-A58005

Pest Ext: Completed
Pest Grams Ext'd: 30.5
Pest Ext Volume: 10.0

ALSO ADD 1,2-DCPE

4.00-A58006

Pest Ext: Completed
Pest Grams Ext'd: 29.8
Pest Ext Volume: 10.0

ALSO ADD 1,2-DCPE

PEST SOIL EXTRACTIONS

orklist #: 7228

Date Created: 4/28/00

n lyst: D.Yeager

Date Extracted: 5/ 2/00

lat #: _____

Surrogate #: _____ Amt: _____

Spike #: _____ Amt: _____

c	Sample ID
	5.00-A58007

Pest Ext: Completed
Pest Grams Ext'd: 29.7
Pest Ext Volume: 10.0

ALSO ADD 1,2-DCPE

6.00-A58008

Pest Ext: Completed
Pest Grams Ext'd: 30.7
Pest Ext Volume: 10.0

A D ADD 1,2-DCPE

7.00-A58009

Pest Ext: Completed
Pest Grams Ext'd: 29.9
Pest Ext Volume: 10.0

ALSO ADD 1,2-DCPE

8.00-A58010

Pest Ext: Completed
Pest Grams Ext'd: 30.2
Pest Ext Volume: 10.0

ALSO ADD 1,2-DCPE

PEST SOIL EXTRACTIONS

orklist #: 7228

Date Created: 4/28/00

n lyst: D.Yeager

Date Extracted: 5/ 2/00

atc #: _____

Surrogate #: _____ Amt: _____

Spike #: _____ Amt: _____

o	Sample ID
	9.00-A58011

Pest Ext: Completed
Pest Grams Ext'd: 30.7
Pest Ext Volume: 10.0

^LSO ADD 1,2-DCPE

10.00-A58012

Pest Ext: Completed
Pest Grams Ext'd: 29.8
Pest Ext Volume: 10.0

ᴬ ᐧ ADD 1,2-DCPE

11.00-A58013

Pest Ext: Completed
Pest Grams Ext'd: 29.5
Pest Ext Volume: 10.0

ALSO ADD 1,2-DCPE

12.00-A58073

Pest Ext: Completed
Pest Grams Ext'd: 30.1
Pest Ext Volume: 10.0

PEST SOIL EXTRACTIONS

orklist #: 7228 Date Created: 4/28/00

n lyst: D.Yeager Date Extracted: 5/ 2/00

ato #: _____ Surrogate #: _____ Amt: _____

Spike #: _____ Amt: _____

o	Sample ID

13.Spike Spike ID: _____ Original sample: 8

Pest Ext: Completed
Pest Grams Ext'd: 30.4
Pest Ext Volume: 10.0

14.mspkdup MSD ID: _____ Original sample: 13

Pest Ext: Completed
Pest Grams Ext'd: 30.1
Pest Ext Volume: 10.0

15.known Lab Control Sample ID: _____

Pest Ext: Completed
Pest Grams Ext'd: 30.0
Pest Ext Volume: 10.0

Pest

METHYLENE CHLORIDE: P5D419-2
ACETONE:
HEXANE: P5D016-3
DIETHYL ETHER:
1,1,2-TRICHLOROTRIFLUOROETHANE (freon):
METHANOL:
ACETONITRILE:
SILICA GEL:
TOLUENE:
SODIUM CHLORIDE:
PENTANE:
FLORISIL: P5C013-2
SODIUM HYDROXIDE:
SULFURIC ACID:
SODIUM SULFATE(anhydrous): P5C778-3
HYDROCHLORIC ACID:
EDTA:
BORON TRIFLUORIDE/METHANOL(BF-3):
SODIUM SULFATE (aqueous):
POTASSIUM HYDROXIDE(37%):
SULFURIC ACID(25%):
HEXANE/ACETONE MIX (70:30): R30439-2

SURROGATE: YWMC226-3

SPIKE: YWAH217-4 } 1.0 ml TA

LCS:

Oil and Grease Water Bath Temperature:

Soxhlet Extraction Start Time:———— Finish Time:————

pH adjustment: NaOH addition:———— Sulfuric Acid addition:————

Secondary verification of Samples, Spike, Surrogate, LCS and extraction date by: 5/12/00

Sequence Summary Report

Sequence : C:\Chrom231\Sequence\050900p9.seq
User : System
Printed : 5/11/2000 11:28:15

Start Time	**ECD A RTX CLPesticides**
Sample ID	hexane
Filename	C:\Chrom231\PE#9\public\050900p9.001
Date	5/9/2000 16:53:30

Start Time	**ECD A RTX CLPesticides**
Sample ID	pest 0.005(4-w-mc-222-3)
Filename	C:\Chrom231\PE#9\public\050900p9.002
Date	5/9/2000 17:23:00

Start Time	**ECD A RTX CLPesticides**
Sample ID	pest 0.02 (4-w-mc-222-3)
Filename	C:\Chrom231\PE#9\public\050900p9.003
Date	5/9/2000 18:03:11

Start Time	**ECD A RTX CLPesticides**
Sample ID	pest 0.05 (4-w-mc-222-3)
Filename	C:\Chrom231\PE#9\public\050900p9.004
Date	5/9/2000 18:43:47

Start Time	**ECD A RTX CLPesticides**
Sample ID	pest 0.07 (4-w-ah-222-3)
Filename	C:\Chrom231\PE#9\public\050900p9.005
Date	5/9/2000 19:24:12

Start Time	**ECD A RTX CLPesticides**
Sample ID	pest 0.1 (4-w-ah-222-3)
Filename	C:\Chrom231\PE#9\public\050900p9.006
Date	5/9/2000 20:04:27

Start Time	**ECD A RTX CLPesticides**
Sample ID	pest 0.15 (4-w-ah-222-3)
Filename	C:\Chrom231\PE#9\public\050900p9.007
Date	5/9/2000 20:44:51

Start Time	**ECD A RTX CLPesticides**
Sample ID	toxaphene 1.0(4-w-ah-86-6)

Sequence Summary Report

Sequence : C:\Chrom231\Sequence\050900p9.seq
U[illegible] : System
P[illegible]ed : 5/11/2000 11:28:15

Filename	C:\Chrom231\PE#9\public\050900p9.008
Date	5/9/2000 21:25:10

Start Time	**ECD A RTX CLPesticides**
Sample ID	chlordane 0.5
Filename	C:\Chrom231\PE#9\public\050900p9.009
Date	5/9/2000 22:05:33

Start Time	**ECD A RTX CLPesticides**
Sample ID	breakdown (4-w-ah-117-5) CR pest verify 0.05
Filename	C:\Chrom231\PE#9\public\050900p9.010
Date	5/9/2000 22:45:50

Start Time	**ECD A RTX CLPesticides**
Sample ID	pest verify 0.05
Filename	C:\Chrom231\PE#9\public\050900p9.011
[illegible]te	5/9/2000 23:26:03

Start Time	**ECD A RTX CLPesticides**
Sample ID	12306 ssp
Filename	C:\Chrom231\PE#9\public\050900p9.012
Date	5/10/2000 00:06:21

Start Time	**ECD A RTX CLPesticides**
Sample ID	12307 ssp
Filename	C:\Chrom231\PE#9\public\050900p9.013
Date	5/10/2000 00:46:38

Start Time	**ECD A RTX CLPesticides**
Sample ID	58004
Filename	C:\Chrom231\PE#9\public\050900p9.014
Date	5/10/2000 01:26:54

[illegible]art Time	**ECD A RTX CLPesticides**
[illegible]ample ID	58005
Filename	C:\Chrom231\PE#9\public\050900p9.015
Date	5/10/2000 02:07:30

Sequence Summary Report

equence :	C:\Chrom231\Sequence\050900p9.seq
Us :	System
P ed :	5/11/2000 11:28:15

Start Time	**ECD A RTX CLPesticides**
Sample ID	58006
Filename	C:\Chrom231\PE#9\public\050900p9.016
Date	5/10/2000 02:47:44

Start Time	**ECD A RTX CLPesticides**
Sample ID	58007
Filename	C:\Chrom231\PE#9\public\050900p9.017
Date	5/10/2000 03:27:55

Start Time	**ECD A RTX CLPesticides**
Sample ID	58008
Filename	C:\Chrom231\PE#9\public\050900p9.018
Date	5/10/2000 04:08:12

Start Time	**ECD A RTX CLPesticides**
Sample ID	58009
Filename	C:\Chrom231\PE#9\public\050900p9.019
Date	5/10/2000 04:48:25

Start Time	**ECD A RTX CLPesticides**
Sample ID	58010
Filename	C:\Chrom231\PE#9\public\050900p9.020
Date	5/10/2000 05:28:40

Start Time	**ECD A RTX CLPesticides**
Sample ID	58011
Filename	C:\Chrom231\PE#9\public\050900p9.021
Date	5/10/2000 06:08:52

Start Time	**ECD A RTX CLPesticides**
Sample ID	breakdown (4-w-ah-117-5) CR pest verify 0.05
ename	C:\Chrom231\PE#9\public\050900p9.022
Date	5/10/2000 06:49:02

Sequence Summary Report

equence : C:\Chrom231\Sequence\050900p9.seq
Us[illegible] : System
P[illegible]d : 5/11/2000 11:28:15

Start Time	**ECD A RTX CLPesticides**
Sample ID	pest 0.05 (4-w-mc-222-3)
Filename	C:\Chrom231\PE#9\public\050900p9.023
Date	5/10/2000 07:29:09

Start Time	**ECD A RTX CLPesticides**
Sample ID	58012
Filename	C:\Chrom231\PE#9\public\050900p9.024
Date	5/10/2000 08:09:26

Start Time	**ECD A RTX CLPesticides**
Sample ID	58013
Filename	C:\Chrom231\PE#9\public\050900p9.025
Date	5/10/2000 08:49:30

[illegible]rt Time	**ECD A RTX CLPesticides**
[illegible]ple ID	58073
Filename	C:\Chrom231\PE#9\public\050900p9.026
Date	5/10/2000 09:30:10

Start Time	**ECD A RTX CLPesticides**
Sample ID	12305 sbp
Filename	C:\Chrom231\PE#9\public\050900p9.027
Date	5/10/2000 10:10:20

Start Time	**ECD A RTX CLPesticides**
Sample ID	13360 lcs
Filename	C:\Chrom231\PE#9\public\050900p9.028
Date	5/10/2000 10:50:46

Start Time	**ECD A RTX CLPesticides**
Sample ID	breakdown (4-w-ah-117-5) CR pest verify 0.05
Filename	C:\Chrom231\PE#9\public\050900p9.029
Date	5/10/2000 11:31:41

Start Time	**ECD A RTX CLPesticides**

Sequence Summary Report

Sequence : C:\Chrom231\Sequence\050900p9.seq
U[illegible] : System
[illegible]ed : 5/11/2000 11:28:15

Sample ID	pest 0.05 (4-w-mc-222-3)
Filename	C:\Chrom231\PE#9\public\050900p9.030
Date	5/10/2000 12:12:03

Start Time	**ECD A RTX CLPesticides**
Sample ID	
Filename	
Date	
	Min
	0.00

Start Time	**ECD A RTX CLPesticides**
Sample ID	
Filename	
Date	
	Max
	0.00

Start Time	**ECD A RTX CLPesticides**
Sample ID	
[illegible]ename	
[illegible]te	
	Mean
	0.00

Start Time	**ECD A RTX CLPesticides**
Sample ID	
Filename	
Date	
	Std Dev
	0.000

Start Time	**ECD A RTX CLPesticides**
Sample ID	
Filename	
Date	
	%RSD
	0.000

ORGANOPHOSPHORUS PESTICIDES SW846/8141A

SUMMARY DATA

SPECIALIZED ASSAYS, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

BLANK

Matrix: Soil
% Dry Weight: 100
Units: UG/KG
Dilution Factor. 1
Analysis Method: SW8141
Delivery Group: 189955
Instrument: Varian-5
Grams Extracted: 30.0 g
Extract Vol: 10.0 ml

Lab Sample ID: BLANK
Date Sampled:
Date Received:
Analysis Date: 5/ 5/00
Analysis Time: 6:43
Sample QC Group: 306

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION Col#1	Flag	Col#2	Flag
86-50-0	Azinphos, methyl	100	U	100	U
35400-43-2	Bolstar	100	U	100	U
2921-88-2	Chlorpyrifos	100	U	100	U
56-72-4	Coumaphos	100	U	100	U
8065-48-3	Demeton-o	100	U	100	U
126-75-0	Demeton-s	100	U	100	U
333-41-5	Diazinon	100	U	100	U
62-73-7	Dichlorvos	200	U	200	U
298-04-4	Disulfoton	200	U	200	U
13194-48-4	Ethoprop	100	U	100	U
115-90-2	Fensulfothion	200	U	200	U
55-38-9	Fenthion	200	U	200	U
150-50-5	Merphos	200	U	200	U
7786-34-7	Mevinphos	200	U	200	U
142-59-6	Naled	1000	U	1000	U
298-00-0	Methylparathion	200	U	200	U
298-02-2	Phorate	100	U	100	U
299-84-3	Ronnel	200	U	200	U
22248-79-9	Stirofos	100	U	100	U
34643-46-4	Tokuthion	100	U	100	U
327-98-0	Trichloronate	100	U	100	U
60-51-5	Dimethoate	200	U	200	U
2104-64-5	EPN	100	U	100	U
121-75-5	Malathion	100	U	100	U
6923-22-4	Monocrotophos	100	U	100	U
56-38-2	Ethyl parathion	100	U	100	U
3689-24-5	Sulfotep	100	U	100	U
107-49-3	TEPP	200	U	200	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264716

Matrix: Soil
% Dry Weight: 87.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8141A
Delivery Group: 189755
Instrument: Varian-3
Grams Extracted: 10.5 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58004
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 5/00
Analysis Time: 9:02
Sample QC Group: 306

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
86-50-0	Azinphos, methyl	109.	U
35400-43-2	Bolstar	109.	U
2921-88-2	Chlorpyrifos	109.	U
56-72-4	Coumaphos	109.	U
8065-48-3	Demeton-o	109.	U
126-75-0	Demeton-s	109.	U
333-41-5	Diazinon	109.	U
62-73-7	Dichlorvos	218.	U
298-04-4	Disulfoton	218.	U
13194-48-4	Ethoprop	109.	U
115-90-2	Fensulfothion	218.	U
55-38-9	Fenthion	218.	U
150-50-5	Merphos	218.	U
7786-34-7	Mevinphos	218.	U
142-59-6	Naled	1090	U
298-00-0	Methylparathion	218.	U
298-02-2	Phorate	109.	U
299-84-3	Ronnel	218.	U
22248-79-9	Stirofos	109.	U
34643-46-4	Tokuthion	109.	U
327-98-0	Trichloronate	109.	U
60-51-5	Dimethoate	218.	U
2104-64-5	EPN	109.	U
121-75-5	Malathion	109.	U
6923-22-4	Monocrotophos	109.	U
56-38-2	Ethyl parathion	109.	U
3689-24-5	Sulfotep	109.	U
107-49-3	TEPP	218.	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264717

Matrix: Soil
% Dry Weight: 57.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8141A
Delivery Group: 189955
Instrument: Varian-3
Grams Extracted: 9.87 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58005
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 5/00
Analysis Time: 9:37
Sample QC Group: 306

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
86-50-0	Azinphos, methyl	177.	U
35400-43-2	Bolstar	177.	U
2921-88-2	Chlorpyrifos	177.	U
56-72-4	Coumaphos	177.	U
8065-48-3	Demeton-o	177.	U
126-75-0	Demeton-s	177.	U
333-41-5	Diazinon	177.	U
62-73-7	Dichlorvos	356.	U
298-04-4	Disulfoton	356.	U
13194-48-4	Ethoprop	177.	U
115-90-2	Fensulfothion	356.	U
55-38-9	Fenthion	356.	U
150-50-5	Merphos	356.	U
7786-34-7	Mevinphos	356.	U
142-59-6	Naled	1770	U
298-00-0	Methylparathion	356.	U
298-02-2	Phorate	177.	U
299-84-3	Ronnel	356.	U
22248-79-9	Stirofos	177.	U
34643-46-4	Tokuthion	177.	U
327-98-0	Trichloronate	177.	U
60-51-5	Dimethoate	356.	U
2104-64-5	EPN	177.	U
121-75-5	Malathion	177.	U
6923-22-4	Monocrotophos	177.	U
56-38-2	Ethyl parathion	177.	U
3689-24-5	Sulfotep	177.	U
107-49-3	TEPP	356.	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264718

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8141A
Delivery Group: 189955
Instrument: Varian-5
Grams Extracted: 10.3 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58006
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 5/00
Analysis Time: 10:12
Sample QC Group: 306

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
86-50-0	Azinphos, methyl	115.	U
35400-43-2	Bolstar	115.	U
2921-88-2	Chlorpyrifos	115.	U
56-72-4	Coumaphos	115.	U
8065-48-3	Demeton-o	115.	U
126-75-0	Demeton-s	115.	U
333-41-5	Diazinon	115.	U
62-73-7	Dichlorvos	231.	U
298-04-4	Disulfoton	231.	U
13194-48-4	Ethoprop	115.	U
115-90-2	Fensulfothion	231.	U
55-38-9	Fenthion	231.	U
150-50-5	Merphos	231.	U
7786-34-7	Mevinphos	231.	U
142-59-6	Naled	1160	U
298-00-0	Methylparathion	231.	U
298-02-2	Phorate	115.	U
299-84-3	Ronnel	231.	U
22248-79-9	Stirofos	115.	U
34643-46-4	Tokuthion	115.	U
327-98-0	Trichloronate	115.	U
60-51-5	Dimethoate	231.	U
2104-64-5	EPN	115.	U
121-75-5	Malathion	115.	U
6923-22-4	Monocrotophos	115.	U
56-38-2	Ethyl parathion	115.	U
3689-24-5	Sulfotep	115.	U
107-49-3	TEPP	231.	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264719

Matrix: Soil
% Dry Weight: 81.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8141A
Delivery Group: 189955
Instrument: Varian-5
Grams Extracted: 10.7 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58007
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 5/00
Analysis Time: 10:47
Sample QC Group: 306

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
86-50-0	Azinphos, methyl	115.	U
35400-43-2	Bolstar	115.	U
2921-88-2	Chlorpyrifos	115.	U
56-72-4	Coumaphos	115.	U
8065-48-3	Demeton-o	115.	U
126-75-0	Demeton-s	115.	U
333-41-5	Diazinon	115.	U
62-73-7	Dichlorvos	231.	U
298-04-4	Disulfoton	231.	U
13194-48-4	Ethoprop	115.	U
115-90-2	Fensulfothion	231.	U
55-38-9	Fenthion	231.	U
150-50-5	Merphos	231.	U
7786-34-7	Mevinphos	231.	U
142-59-6	Naled	1150	U
298-00-0	Methylparathion	231.	U
298-02-2	Phorate	115.	U
299-84-3	Ronnel	231.	U
22248-79-9	Stirofos	115.	U
34643-46-4	Tokuthion	115.	U
327-98-0	Trichloronate	115.	U
60-51-5	Dimethoate	231.	U
2104-64-5	EPN	115.	U
121-75-5	Malathion	115.	U
6923-22-4	Monocrotophos	115.	U
56-38-2	Ethyl parathion	115.	U
3689-24-5	Sulfotep	115.	U
107-49-3	TEPP	231.	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264720

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8141A
Delivery Group: 189755
Instrument: Varian-5
Grams Extracted: 10.6 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58008
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 5/00
Analysis Time: 11:22
Sample QC Group: 306

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
86-50-0	Azinphos, methyl	112.	U
35400-43-2	Bolstar	112.	U
2921-88-2	Chlorpyrifos	112.	U
56-72-4	Coumaphos	112.	U
8065-48-3	Demeton-o	112.	U
126-75-0	Demeton-s	112.	U
333-41-5	Diazinon	112.	U
62-73-7	Dichlorvos	225.	U
298-04-4	Disulfoton	225.	U
13194-48-4	Ethoprop	112.	U
115-90-2	Fensulfothion	225.	U
55-38-9	Fenthion	225.	U
150-50-5	Merphos	225.	U
7786-34-7	Mevinphos	225.	U
142-59-6	Naled	1120	U
298-00-0	Methylparathion	225.	U
298-02-2	Phorate	112.	U
299-84-3	Ronnel	225.	U
22248-79-9	Stirofos	112.	U
34643-46-4	Tokuthion	112.	U
327-98-0	Trichloronate	112.	U
60-51-5	Dimethoate	225.	U
2104-64-5	EPN	112.	U
121-75-5	Malathion	112.	U
6923-22-4	Monocrotophos	112.	U
56-38-2	Ethyl parathion	112.	U
3689-24-5	Sulfotep	112.	U
107-49-3	TEPP	225.	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264721

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8141A
Delivery Group: 189755
Instrument: Varian-5
Grams Extracted: 10.9 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58009
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 5/00
Analysis Time: 11:56
Sample QC Group: 306

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
86-50-0	Azinphos, methyl	110.	U
35400-43-2	Bolstar	110.	U
2921-88-2	Chlorpyrifos	110.	U
56-72-4	Coumaphos	110.	U
8065-48-3	Demeton-o	110.	U
126-75-0	Demeton-s	110.	U
333-41-5	Diazinon	110.	U
62-73-7	Dichlorvos	218.	U
298-04-4	Disulfoton	218.	U
13194-48-4	Ethoprop	110.	U
115-90-2	Fensulfothion	218.	U
55-38-9	Fenthion	218.	U
150-50-5	Merphos	218.	U
7786-34-7	Mevinphos	218.	U
142-59-6	Naled	1090	U
298-00-0	Methylparathion	218.	U
298-02-2	Phorate	110.	U
299-84-3	Ronnel	218.	U
22248-79-9	Stirofos	110.	U
34643-46-4	Tokuthion	110.	U
327-98-0	Trichloronate	110.	U
60-51-5	Dimethoate	218.	U
2104-64-5	EPN	110.	U
121-75-5	Malathion	110.	U
6923-22-4	Monocrotophos	110.	U
56-38-2	Ethyl parathion	110.	U
3689-24-5	Sulfotep	110.	U
107-49-3	TEPP	218.	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264722

Matrix: Soil
% Dry Weight: 86.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8141A
Delivery Group: 189955
Instrument: Varian-3
Grams Extracted: 10.6 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58010
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 5/00
Analysis Time: 13:00
Sample GC Group: 306

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
86-50-0	Azinphos, methyl	109.	U
35400-43-2	Bolstar	109.	U
2921-88-2	Chlorpyrifos	109.	U
56-72-4	Coumaphos	109.	U
8065-48-3	Demeton-o	109.	U
126-75-0	Demeton-s	109.	U
333-41-5	Diazinon	109.	U
62-73-7	Dichlorvos	220.	U
298-04-4	Disulfoton	220.	U
13194-48-4	Ethoprop	109.	U
115-90-2	Fensulfothion	220.	U
55-38-9	Fenthion	220.	U
150-50-5	Merphos	220.	U
7786-34-7	Mevinphos	220.	U
142-59-6	Naled	1100	U
298-00-0	Methylparathion	220.	U
298-02-2	Phorate	109.	U
299-84-3	Ronnel	220.	U
22248-79-9	Stirofos	109.	U
34643-46-4	Tokuthion	109.	U
327-98-0	Trichloronate	109.	U
60-51-5	Dimethoate	220.	U
2104-64-5	EPN	109.	U
121-75-5	Malathion	109.	U
6923-22-4	Monocrotophos	109.	U
56-38-2	Ethyl parathion	109.	U
3689-24-5	Sulfotep	109.	U
107-49-3	TEPP	220.	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264723

Matrix: Soil
% Dry Weight: 87.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8141A
Delivery Group: 189955
Instrument: Varian-5
Grams Extracted: 10.6 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58011
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 5/00
Analysis Time: 13:41
Sample QC Group: 306

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
86-50-0	Azinphos, methyl	108.	U
35400-43-2	Bolstar	108.	U
2921-88-2	Chlorpyrifos	108.	U
56-72-4	Coumaphos	108.	U
8065-48-3	Demeton-o	108.	U
126-75-0	Demeton-s	108.	U
333-41-5	Diazinon	108.	U
62-73-7	Dichlorvos	217.	U
298-04-4	Disulfoton	217.	U
13194-48-4	Ethoprop	108.	U
115-90-2	Fensulfothion	217.	U
55-38-9	Fenthion	217.	U
150-50-5	Merphos	217.	U
7786-34-7	Mevinphos	217.	U
142-59-6	Naled	1080	U
298-00-0	Methylparathion	217.	U
298-02-2	Phorate	108.	U
299-84-3	Ronnel	217.	U
22248-79-9	Stirofos	108.	U
34643-46-4	Tokuthion	108.	U
327-98-0	Trichloronate	108.	U
60-51-5	Dimethoate	217.	U
2104-64-5	EPN	108.	U
121-75-5	Malathion	108.	U
6923-22-4	Monocrotophos	108.	U
56-38-2	Ethyl parathion	108.	U
3689-24-5	Sulfotep	108.	U
107-49-3	TEPP	217.	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264724

Matrix: Soil
% Dry Weight: 81.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8141A
Delivery Group: 189955
Instrument: Varian-5
Grams Extracted: 10.2 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58012
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 5/00
Analysis Time: 14:16
Sample QC Group: 306

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
86-50-0	Azinphos, methyl	121.	U
35400-43-2	Bolstar	121.	U
2921-88-2	Chlorpyrifos	121.	U
56-72-4	Coumaphos	121.	U
8065-48-3	Demeton-o	121.	U
126-75-0	Demeton-s	121.	U
333-41-5	Diazinon	121.	U
62-73-7	Dichlorvos	242.	U
298-04-4	Disulfoton	242.	U
13194-48-4	Ethoprop	121.	U
115-90-2	Fensulfothion	242.	U
55-38-9	Fenthion	242.	U
150-50-5	Merphos	242.	U
7786-34-7	Mevinphos	242.	U
142-59-6	Naled	1210	U
298-00-0	Methylparathion	242.	U
298-02-2	Phorate	121.	U
299-84-3	Ronnel	242.	U
22248-79-9	Stirofos	121.	U
34643-46-4	Tokuthion	121.	U
327-98-0	Trichloronate	121.	U
60-51-5	Dimethoate	242.	U
2104-64-5	EPN	121.	U
121-75-5	Malathion	121.	U
6923-22-4	Monocrotophos	121.	U
56-38-2	Ethyl parathion	121.	U
3689-24-5	Sulfotep	121.	U
107-49-3	TEPP	242.	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264725

Matrix: Soil
% Dry Weight: 57.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8141A
Delivery Group: 189955
Instrument: Varian-5
Grams Extracted: 10.1 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58013
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 5/00
Analysis Time: 14:51
Sample QC Group: 306

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
86-50-0	Azinphos, methyl	174.	U
35400-43-2	Bolstar	174.	U
2921-88-2	Chlorpyrifos	174.	U
56-72-4	Coumaphos	174.	U
8065-48-3	Demeton-o	174.	U
126-75-0	Demeton-s	174.	U
333-41-5	Diazinon	174.	U
62-73-7	Dichlorvos	347.	U
298-04-4	Disulfoton	347.	U
13194-48-4	Ethoprop	174.	U
115-90-2	Fensulfothion	347.	U
55-38-9	Fenthion	347.	U
150-50-5	Merphos	347.	U
7786-34-7	Mevinphos	347.	U
142-59-6	Naled	1740	U
298-00-0	Methylparathion	347.	U
298-02-2	Phorate	174.	U
299-84-3	Ronnel	347.	U
22248-79-9	Stirofos	174.	U
34643-46-4	Tokuthion	174.	U
327-98-0	Trichloronate	174.	U
60-51-5	Dimethoate	347.	U
2104-64-5	EPN	174.	U
121-75-5	Malathion	174.	U
6923-22-4	Monocrotophos	174.	U
56-38-2	Ethyl parathion	174.	U
3689-24-5	Sulfotep	174.	U
107-49-3	TEPP	347.	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264726

Matrix: Soil
% Dry Weight: 72.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8141A
Delivery Group: 189953
Instrument: Varian-5
Grams Extracted: 10.6 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58073
Date Sampled: 4/23/00
Date Received: 4/28/00
Analysis Date: 5/ 5/00
Analysis Time: 16:34
Sample QC Group: 306

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
86-50-0	Azinphos, methyl	131.	U
35400-43-2	Bolstar	131.	U
2921-88-2	Chlorpyrifos	131.	U
56-72-4	Coumaphos	131.	U
8065-48-3	Demeton-o	131.	U
126-75-0	Demeton-s	131.	U
333-41-5	Diazinon	131.	U
62-73-7	Dichlorvos	262.	U
298-04-4	Disulfoton	262.	U
13194-48-4	Ethoprop	131.	U
115-90-2	Fensulfothion	262.	U
55-38-9	Fenthion	262.	U
150-50-5	Merphos	262.	U
7786-34-7	Mevinphos	262.	U
142-59-6	Naled	1310	U
298-00-0	Methylparathion	262.	U
298-02-2	Phorate	131.	U
299-84-3	Ronnel	262.	U
22248-79-9	Stirofos	131.	U
34643-46-4	Tokuthion	131.	U
327-98-0	Trichloronate	131.	U
60-51-5	Dimethoate	262.	U
2104-64-5	EPN	131.	U
121-75-5	Malathion	131.	U
6923-22-4	Monocrotophos	131.	U
56-38-2	Ethyl parathion	131.	U
3689-24-5	Sulfotep	131.	U
107-49-3	TEPP	262.	U

2F
SOIL OPPESTICIDE SURROGATE RECOVERY

Lab Name : Specialized Assays
Lab Code : SASSAYS
Case No : 189955
GC Column (1) : DB-XLB ID : 30 m X 0.45 mm
GC Column (2) : DB-5 ID : 30 m X 0.45 mm

	Lab Sample ID	(1)1B2NB #	(2)1B2NB #	Total Out
		% Recovery		
1	PBLK03	75	92	0
2	264716MS	74	88	0
3	264716MSD	68	80	0
4	CONTROLS	76	88	0
5	264716	57	68	0
6	264717	73	89	0
7	264718	64	78	0
8	264719	63	73	0
9	264720	71	83	0
10	264721	68	78	0
11	264722	64	78	0
12	264723	78	93	0
13	264724	75	92	0
14	264725	55	61	0
15	264726	67	76	0
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

QC LIMITS
1B2NB = 1-Bromo-2-nitrobenzene 10 138

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

FORM 3H

ORGANOPHOSPHORUS PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab: Specialized Assays, Inc. Project:

Matrix Spike Sample: QC Group: 306

Delivery Group: 189955

Compound	Spike Added	Sample Conc	Spike Conc	% Rec	QC Limits
EPN	0.5	0	0.453	90.6	12 - 160
Malathion	0.5	0	0.415	83	21 - 155
Ethyl parathion	0.5	0	0.368	73.6	14 - 150

Compound	Spike Added	MSD Conc	% Rec	RPD	RPD Limit	Recovery Limits
N	0.5	0.41	82	9.97	32	12 - 160
malathion	0.5	0.41	82	1.21	35	21 - 155
Ethyl parathion	0.5	0.34	68	7.91	31	14 - 150

Concentration Units: mg/kg

RPD: 0 out of 3 outside QC limits.
Spike Recoveries: 0 out of 6 outside QC limits.

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

FORM 3Ha

ORGANIC PHOSPHORUS PESTICIDE LABORATORY CONTROL RECOVERY

Lab: Specialized Assays, Inc. Project:

SDG: 189955 QC Group: 306

Compound	Known Value	Conc	% Rec	QC Limits
Azinphos, methyl	500	450	90	36. -200.
Bolstar	500	480	96	16. -163.
Chlorpyrifos	500	420	84	27. -167.
Coumaphos	500	440	88	10. -150.
Demeton-o	500	410	82	10. -178.
Demeton-s	500	410	82	10. -178.
Diazinon	500	410	82	26. -163.
Dichlorvos	500	480	96	34. -193.
Disulfoton	500	410	82	10. -156.
Ethoprop	500	420	84	27. -170.
Fensulfothion	500	460	92	22. -182.
Fenthion	500	460	92	29. -156.
Merphos	500	420	84	15. -216.
Mevinphos	500	360	72	11. -173.
Naled	1000	844	84	-
Methylparathion	500	400	80	15. -200.
Phorate	500	410	82	10. -176.
Ronnel	500	400	80	24. -181.
Stirofos	500	410	82	36. -171.
Tokuthion	500	420	84	36. -162.
Trichloronate	500	440	88	38. -140.
Dimethoate	500	400	80	10. -165.
EPN	500	480	96	21. -148.
Malathion	500	420	84	22. -149.
Monocrotophos	500	420	84	10. -161.
Ethyl parathion	500	400	80	10. -179.
Sulfotep	1000	840	84	10. -180.
TEPP	1000	760	76	10. -193.

Concentration Units: ug/kg

Recoveries: 0 out of 28 outside QC limits.

4C
METHOD BLANK SUMMARY

PBLK03

Lab Name : Specialized Assays
Lab Code : SASSAYS Case No : 189955
Lab Sample ID : 12302 sbp Lab File ID : 50400v.025
Matrix : soil Extraction : Sonc.
Date Analyzed (1) : 5/5/00 Date Analyzed (1) : 5/5/00
Time Analyzed (1) : 06:43 Time Analyzed (1) : 06:43
Instrument ID (1) : Varian 5 Instrument ID (1) : Varian 5
GC Column (1) : DB-XLB (0.45mmx30 olumn (1) : 92
Date Extracted : 5/2/00

NK APPLIES TO THE FOLLOWING SAMP

	Client ID	Lab ID	Date Analyzed	Time Analyzed
1	264716MS	12303 ssp	5/5/00	07:17
2	264716MSD	12304 ssp	5/5/00	07:52
3	CONTROLS	13359 lcs	5/5/00	08:27
4	264716	58004	5/5/00	09:02
5	264717	58005	5/5/00	09:37
6	264718	58006	5/5/00	10:12
7	264719	58007	5/5/00	10:47
8	264720	58008	5/5/00	11:22
9	264721	58009	5/5/00	11:56
10	264722	58010	5/5/00	13:06
11	264723	58011	5/5/00	13:41
12	264724	58012	5/5/00	14:16
13	264725	58013	5/5/00	14:51
14	264726	58073	5/5/00	16:34
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

6D

ORGANOPHOSPHORUS PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name : Specialized Assays
Lab Code : SASSAYS Case No : 189955
Instrument ID : Varian 5
GC Column : DB - XLB ID : 30 m x 0.45 mm

Date(s) Analyzed : 5/4/00 5/4/00

Compound	RT of STANDARDS (ug/L)					MEAN	RT WINDOW(MIN)	
	100	200	500	700	1000	RT	FROM	TO
Dichlorvos	5.95	5.95	5.94	5.95	5.94	5.95	5.90	6.00
Mevinphos	9.24	9.22	9.21	9.23	9.20	9.22	9.17	9.27
Monocrotophos	12.00	11.99	11.99	12.01	12.00	12.00	11.95	12.05
Ethrop	12.41	12.40	12.39	12.41	12.40	12.40	12.35	12.45
Naled	12.82	12.82	12.81	12.83	12.82	12.82	12.77	12.87
Sulfotepp	12.82	12.82	12.81	12.83	12.82	12.82	12.77	12.87
TEPP	13.26	13.26	13.25	13.27	13.26	13.26	13.19	13.33
Phorate	13.26	13.26	13.25	13.27	13.26	13.26	13.19	13.33
Demeton	13.77	13.76	13.74	13.75	13.74	13.75	13.68	13.82
Dimethoate	14.19	14.18	14.15	14.17	14.14	14.17	14.10	14.24
Diazinon	14.43	14.44	14.42	14.44	14.43	14.43	14.36	14.50
Disulfoton	14.99	14.99	14.99	15.00	14.99	14.99	14.92	15.06
Methyl-parathion	16.90	16.90	16.89	16.92	16.89	16.90	16.83	16.97
Ronnel	16.90	16.90	16.89	16.92	16.89	16.90	16.83	16.97
Malathion	17.43	17.44	17.43	17.45	17.42	17.43	17.36	17.50
Chlorpyrifos	17.93	17.93	17.92	17.94	17.92	17.93	17.86	18.00
Fenthion	18.01	18.03	18.01	18.04	18.00	18.02	17.95	18.09
Parathion	18.34	18.35	18.33	18.36	18.32	18.34	18.27	18.41
Trichloronate	18.37	18.38	18.38	18.39	18.36	18.38	18.33	18.43
Stirifos	20.09	20.09	20.07	20.09	20.05	20.08	20.03	20.13
Tokuthion	20.55	20.57	20.56	20.57	20.53	20.55	20.50	20.60
Merphos	20.70	20.72	20.70	20.71	20.68	20.70	20.60	20.80
Fensulfothion	22.00	22.00	21.98	21.99	21.95	21.98	21.88	22.08
Bolstar	22.30	22.32	22.31	22.32	22.28	22.30	22.20	22.40
EPN	24.25	22.32	22.31	22.32	22.28	22.69	22.59	22.79
Guthion	25.39	25.41	25.41	25.40	25.39	25.40	25.30	25.50
Coumaphos	26.75	26.77	26.79	26.80	26.77	26.78	26.68	26.88
1Bromo2nitrobenzen	8.13	8.12	8.12	8.14	8.13	8.13	8.03	8.23

6D

ORGANOPHOSPHORUS PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name : Specialized Assays
Lab Code : SASSAYS Case No : 189955
Instrument ID : Varian 5
GC Column : DB - 5 ID : 30 m x 0.45 mm

Date(s) Analyzed : 5/4/00 5/4/00

Compound	RT of STANDARDS (ug/L)					MEAN	RT WINDOW(MIN)	
	100	200	500	700	1000	RT	FROM	TO
Dichlorvos	5.34	5.34	5.33	5.35	5.33	5.34	5.29	5.39
Mevinphos	8.43	8.41	8.39	8.40	8.39	8.40	8.35	8.45
Monocrotophos	11.16	11.15	11.15	11.17	11.15	11.16	11.11	11.21
Ethrop	11.46	11.45	11.45	11.46	11.45	11.45	11.40	11.50
Naled	11.81	11.81	11.80	11.82	11.80	11.81	11.76	11.86
Sulfotepp	12.15	12.14	12.14	12.16	12.14	12.15	12.10	12.20
TEPP	12.15	12.14	12.14	12.16	12.14	12.15	12.08	12.22
Phorate	12.29	12.29	12.28	12.30	12.29	12.29	12.22	12.36
Demeton	12.73	12.71	12.70	12.71	12.69	12.71	12.64	12.78
Dimethoate	12.81	12.77	12.72	12.74	12.72	12.75	12.68	12.82
Diazinon	13.65	13.65	13.64	13.66	13.65	13.65	13.58	13.72
Disulfoton	13.80	13.80	13.79	13.81	13.80	13.80	13.73	13.87
Methyl-parathion	15.02	15.02	15.00	15.02	15.01	15.01	14.94	15.08
Ronnel	15.47	15.47	15.46	15.48	15.46	15.47	15.40	15.54
Malathion	16.13	16.13	16.12	16.13	16.11	16.12	16.05	16.19
Fenthion	16.43	16.47	16.42	16.43	16.42	16.43	16.36	16.50
Chlorpyrifos	16.51	16.52	16.50	16.52	16.50	16.51	16.44	16.58
Parathion	16.51	16.52	16.50	16.52	16.50	16.51	16.44	16.58
Trichloronate	16.94	16.95	16.94	16.96	16.94	16.94	16.89	16.99
Stirifos	18.61	18.61	18.59	18.60	18.58	18.60	18.55	18.65
Tokuthion	19.13	19.15	19.13	19.15	19.12	19.14	19.09	19.19
Merphos	19.29	19.30	19.28	19.29	19.26	19.29	19.19	19.39
Fensulfothion	20.36	20.37	20.31	20.31	20.28	20.32	20.22	20.42
Bolstar	20.84	20.37	20.31	20.31	20.28	20.42	20.32	20.52
EPN	22.62	22.65	22.64	22.64	22.62	22.63	22.53	22.73
Guthion	23.49	23.52	23.51	23.50	23.49	23.50	23.40	23.60
Coumaphos	25.08	25.11	25.10	25.11	25.11	25.10	25.00	25.20
1Bromo2nitrobenzen	6.90	6.90	6.90	6.92	6.90	6.90	6.80	7.00

6E

OPPESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name : Specialized Assays
Lab Code : SASSAYS Case No : 189955
Instrument ID : Varian 5
GC Column : DB - XLB ID : 30 m x 0.45 mm

Date(s) Analyzed : 5/4/00 5/4/00

COMPOUND	CALIBRATION FACTORS					MEAN	% RSD
	100	200	500	700	1000		
Dichlorvos	2.140E-6	2.250E-6	1.986E-6	1.957E-6	1.987E-6	2.064E-6	6.12
Mevinphos	2.772E-6	2.678E-6	2.853E-6	2.769E-6	2.769E-6	2.768E-6	2.24
Monocrotophos	1.202E-5	1.135E-5	1.026E-5	9.653E-6	9.809E-6	1.062E-5	9.67
Ethrop	1.619E-6	1.703E-6	1.467E-6	1.448E-6	1.487E-6	1.545E-6	7.17
Naled	1.573E-6	1.727E-6	1.549E-6	1.558E-6	1.619E-6	1.605E-6	4.57
Sulfotepp	1.573E-6	1.727E-6	1.549E-6	1.558E-6	1.619E-6	1.605E-6	4.57
TEPP	3.053E-6	3.399E-6	2.666E-6	2.430E-6	2.502E-6	2.810E-6	14.53
Phorate	3.053E-6	3.399E-6	2.666E-6	2.430E-6	2.502E-6	2.810E-6	14.53
Demeton	3.194E-6	3.141E-6	2.212E-6	2.230E-6	2.161E-6	2.588E-6	20.49
Dimethoate	3.458E-6	3.339E-6	2.193E-6	2.169E-6	2.000E-6	2.632E-6	26.79
Diazinon	1.535E-6	1.697E-6	1.499E-6	1.577E-6	1.558E-6	1.573E-6	4.76
Disulfoton	1.558E-6	1.686E-6	1.565E-6	1.608E-6	1.618E-6	1.607E-6	3.19
Methyl-parathion	1.749E-6	1.937E-6	1.715E-6	1.764E-6	1.808E-6	1.795E-6	4.83
Ronnel	1.749E-6	1.937E-6	1.715E-6	1.764E-6	1.808E-6	1.795E-6	4.83
Malathion	2.204E-6	2.364E-6	1.971E-6	1.982E-6	2.002E-6	2.105E-6	8.26
Chlorpyrifos	2.455E-6	2.583E-6	2.324E-6	2.313E-6	2.366E-6	2.408E-6	4.67
Fenthion	1.449E-6	1.604E-6	1.482E-6	1.545E-6	1.575E-6	1.531E-6	4.21
Parathion	2.734E-6	2.200E-6	1.983E-6	2.117E-6	2.085E-6	2.224E-6	13.29
Trichloronate	1.292E-6	1.594E-6	1.429E-6	1.406E-6	1.480E-6	1.440E-6	7.66
Stirifos	3.215E-6	3.414E-6	2.777E-6	2.777E-6	2.721E-6	2.981E-6	10.52
Tokuthion	2.059E-6	2.293E-6	2.095E-6	2.174E-6	2.181E-6	2.161E-6	4.19
Merphos	2.505E-6	2.609E-6	2.285E-6	2.336E-6	2.366E-6	2.420E-6	5.52
Fensulfothion	3.423E-6	3.826E-6	2.922E-6	2.969E-6	2.968E-6	3.222E-6	12.26
Bolstar	1.976E-6	2.156E-6	1.889E-6	1.964E-6	1.985E-6	1.994E-6	4.93
EPN	2.340E-6	2.564E-6	2.196E-6	2.258E-6	2.325E-6	2.337E-6	5.97
Guthion	3.197E-6	3.485E-6	2.544E-6	2.588E-6	2.614E-6	2.885E-6	14.85
Coumaphos	4.662E-6	5.132E-6	4.041E-6	4.137E-6	4.342E-6	4.463E-6	9.93
1Bromo2nitrobenzen	7.636E-5	5.862E-5	2.991E-5	4.107E-5	7.221E-5	5.564E-5	35.80

% RSD must be less than or equal 20.0 % for all compounds or the average of all % RSDs must be less than or equal to 20.0 %.

6E

OPPESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name : Specialized Assays
Lab Code : SASSAYS Case No : 189955
Instrument ID : Varian 5
GC Column : DB - 5 ID : 30 m x 0.45 mm

Date(s) Analyzed : 5/4/00 5/4/00

COMPOUND	CALIBRATION FACTORS					MEAN	% RSD
	100	200	500	700	1000		
Dichlorvos	3.793E-6	4.399E-6	4.048E-6	3.891E-6	3.967E-6	4.020E-6	5.78
Mevinphos	5.800E-6	5.451E-6	4.005E-6	3.735E-6	3.851E-6	4.569E-6	21.40
Monocrotophos	1.891E-5	2.142E-5	1.975E-5	2.003E-5	2.113E-5	2.025E-5	5.08
Ethrop	3.100E-6	3.293E-6	2.983E-6	3.047E-6	3.161E-6	3.117E-6	3.80
Naled	1.925E-5	1.916E-5	1.482E-5	1.489E-5	1.510E-5	1.664E-5	14.04
Sulfotepp	3.737E-6	4.421E-6	4.017E-6	3.957E-6	3.980E-6	4.022E-6	6.18
TEPP	3.737E-6	4.421E-6	4.017E-6	3.957E-6	3.980E-6	4.022E-6	6.18
Phorate	2.578E-6	3.180E-6	2.586E-6	2.713E-6	2.839E-6	2.779E-6	8.93
Demeton	7.513E-6	1.042E-5	6.720E-6	6.402E-6	7.148E-6	7.640E-6	21.05
Dimethoate	3.624E-6	4.303E-6	3.234E-6	3.470E-6	2.996E-6	3.525E-6	14.06
Diazinon	3.503E-6	4.198E-6	3.789E-6	3.833E-6	4.071E-6	3.879E-6	6.94
Disulfoton	2.706E-6	3.338E-6	3.102E-6	3.033E-6	3.303E-6	3.096E-6	8.20
Methyl-parathion	3.287E-6	3.361E-6	3.130E-6	3.208E-6	3.321E-6	3.262E-6	2.84
Ronnel	4.093E-6	4.385E-6	3.813E-6	3.929E-6	4.146E-6	4.073E-6	5.37
Malathion	4.560E-6	5.264E-6	4.245E-6	4.626E-6	4.722E-6	4.683E-6	7.91
Fenthion	4.509E-6	4.275E-6	4.322E-6	4.544E-6	4.670E-6	4.464E-6	3.66
Chlorpyrifos	3.321E-6	3.671E-6	3.368E-6	3.645E-6	3.753E-6	3.552E-6	5.45
Parathion	3.321E-6	3.671E-6	3.368E-6	3.645E-6	3.753E-6	3.552E-6	5.45
Trichloronate	3.755E-6	3.985E-6	3.803E-6	4.260E-6	4.092E-6	3.979E-6	5.23
Stirifos	7.038E-6	8.361E-6	6.358E-6	6.336E-6	5.878E-6	6.794E-6	14.26
Tokuthion	4.230E-6	4.644E-6	4.364E-6	4.699E-6	4.452E-6	4.478E-6	4.34
Merphos	5.344E-6	5.977E-6	5.153E-6	5.628E-6	5.201E-6	5.461E-6	6.28
Fensulfothion	7.774E-6	1.008E-5	7.973E-6	7.173E-6	7.275E-6	8.056E-6	14.67
Bolstar	3.356E-6	4.914E-6	4.195E-6	4.400E-6	4.572E-6	4.287E-6	13.61
EPN	4.616E-6	5.193E-6	4.555E-6	4.529E-6	4.664E-6	4.711E-6	5.82
Guthion	5.897E-6	6.285E-6	4.855E-6	4.918E-6	5.124E-6	5.416E-6	11.80
Coumaphos	6.830E-6	7.646E-6	6.205E-6	6.407E-6	6.485E-6	6.715E-6	8.45
1Bromo2nitrobenzen	1.247E-4	9.138E-5	4.932E-5	6.276E-5	1.142E-4	8.847E-5	36.53

% RSD must be less than or equal 20.0 % for all compounds or the average of all % RSDs must be less than or equal to 20.0 %.

7D

ORGANOPHOSPHORUS PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name : SPECIALIZED ASSAYS
Lab Code : SASSAYS

SDG : 189955

EPA Sample ID (CCV) : CCV02
Lab Sample ID (CCV) : op 0.5

Date Analyzed : 5/5/00
Time Analyzed : 06:08

GC Column (1) : DB-XLB ID : 30 m x 0.45 mm
Initial Calibration Date(s) : 5/4/00

GC Column (2) : DB-5 ID : 30 m x 0.45 mm
Initial Calibration Date(s) : 5/4/00

COMPOUNDS	RT	RT Window From	RT Window To	Calc. Amount (ng)	Known Amount (ng)	% Diff.		COMPOUNDS	RT	RT Window From	RT Window To	Calc. Amount (ng)	Known Amount (ng)	% Diff.	
Dichlorvos	5.92	5.87	5.97	489	500	-2		Dichlorvos	5.31	5.26	5.36	562	500	12	
1Bromo2nitrobenzene	8.10	8.05	8.15	23518	20000	18	*	1Bromo2nitrobenzene	6.88	6.83	6.93	27459	20000	37	*
Mevinphos	9.19	9.14	9.24	467	500	-7		Mevinphos	8.36	8.31	8.41	540	500	8	
Monocrotophos	11.97	11.92	12.02	501	500	0		Monocrotophos	11.13	11.08	11.18	559	500	12	
Ethrop	12.38	12.33	12.43	489	500	-2		Ethrop	11.42	11.37	11.47	539	500	8	
Naled	12.80	12.75	12.85	939	1000	-6		Naled	11.78	11.73	11.83	577	500	15	
Sulfotepp	12.80	12.75	12.85	939	1000	-6		TEPP	12.11	12.06	12.16	1050	1000	5	
TEPP	13.24	13.19	13.29	861	1000	-14		Sulfotepp	12.11	12.06	12.16	1050	1000	5	
Phorate	13.24	13.19	13.29	861	1000	-14		Phorate	12.26	12.21	12.31	554	500	11	
ıeton	13.72	13.67	13.77	422	500	-16	*	Demeton	12.66	12.61	12.71	531	500	6	
Dimethoate	14.13	14.08	14.18	451	500	-10		Dimethoate	12.70	12.65	12.75	534	500	7	
Diazinon	14.41	14.36	14.46	478	500	-4		Diazinon	13.62	13.57	13.67	530	500	6	
Disulfoton	14.96	14.91	15.01	484	500	-3		Disulfoton	13.76	13.71	13.81	504	500	1	
Methyl-parathion	16.86	16.79	16.93	984	1000	-2		Methyl-parathion	14.97	14.90	15.04	517	500	3	
Ronnel	16.86	16.79	16.93	984	1000	-2		Ronnel	15.43	15.36	15.50	518	500	4	
Malathion	17.40	17.33	17.47	510	500	2		Malathion	16.08	16.01	16.15	555	500	11	
Parathion	18.31	18.24	18.38	607	500	21	*	Fenthion	16.39	16.32	16.46	515	500	3	
Chlorpyrifos	17.89	17.82	17.96	516	500	3		Chlorpyrifos	16.46	16.39	16.53	1109	1000	11	
Fenthion	17.98	17.91	18.05	483	500	-3		Parathion	16.46	16.39	16.53	1109	1000	11	
Trichloronate	18.34	18.27	18.41	432	500	-14		Trichloronate	16.90	16.83	16.97	545	500	9	
Stirifos	20.05	19.98	20.12	503	500	1		Stirifos	18.55	18.48	18.62	602	500	20	*
Tokuthion	20.67	20.60	20.74	492	500	-2		Tokuthion	19.10	19.03	19.17	538	500	8	
Merphos	20.53	20.46	20.60	487	500	-3		Merphos	19.24	19.17	19.31	524	500	5	
Fensulfothion	21.94	21.87	22.01	533	500	7		Fensulfothion	20.26	20.19	20.33	604	500	21	*
Bolstar	22.27	22.20	22.34	485	500	-3		Bolstar	20.80	20.73	20.87	540	500	8	
EPN	24.24	24.17	24.31	496	500	-1		EPN	22.59	22.52	22.66	563	500	13	
Guthion	25.36	25.29	25.43	522	500	4		Guthion	23.46	23.39	23.53	603	500	21	*
Coumaphos	26.73	26.66	26.80	512	500	2		Coumaphos	25.06	24.99	25.13	649	500	30	*

Average % Difference: 6

Average % Difference: 11

000471

7D

ORGANOPHOSPHORUS PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name : SPECIALIZED ASSAYS
Lab Code : SASSAYS

SDG : 189955

EPA Sample ID (CCV) : CCV03
Lab Sample ID (CCV) : op 0.5

Date Analyzed : 5/5/00
Time Analyzed : 12:31

GC Column (1) : DB-XLB ID : 30 m x 0.45 mm
Initial Calibration Date(s) : 5/4/00

GC Column (2) : DB-5 ID : 30 m x 0.45 mm
Initial Calibration Date(s) : 5/4/00

COMPOUNDS	RT	RT Window From	RT Window To	Calc. Amount (ng)	Known Amount (ng)	% Diff.		COMPOUNDS	RT	RT Window From	RT Window To	Calc. Amount (ng)	Known Amount (ng)	% Diff.	
Dichlorvos	5.96	5.91	6.01	489	500	-2		Dichlorvos	5.34	5.29	5.39	513	500	3	
1Bromo2nitrobenzene	8.14	8.09	8.19	22672	20000	13		1Bromo2nitrobenzene	6.91	6.86	6.96	25663	20000	28	*
Mevinphos	9.23	9.18	9.28	449	500	-10		Mevinphos	8.40	8.35	8.45	461	500	-8	
Monocrotophos	12.01	11.96	12.06	508	500	2		Monocrotophos	11.16	11.11	11.21	484	500	-3	
Ethrop	12.42	12.37	12.47	502	500	0		Ethrop	11.46	11.41	11.51	491	500	-2	
Naled	12.84	12.79	12.89	967	1000	-3		Naled	11.82	11.77	11.87	488	500	-2	
Sulfotepp	12.84	12.79	12.89	967	1000	-3		TEPP	12.16	12.11	12.21	958	1000	-4	
TEPP	13.28	13.23	13.33	993	1000	-1		Sulfotepp	12.16	12.11	12.21	958	1000	-4	
Phorate	13.28	13.23	13.33	993	1000	-1		Phorate	12.30	12.25	12.35	495	500	-1	
ıeton	13.75	13.70	13.80	486	500	-3		Demeton	12.71	12.66	12.76	489	500	-2	
Dimethoate	14.16	14.11	14.21	473	500	-5		Dimethoate	12.74	12.69	12.79	479	500	-4	
Diazinon	14.44	14.39	14.49	483	500	-3		Diazinon	13.66	13.61	13.71	489	500	-2	
Disulfoton	15.00	14.95	15.05	476	500	-5		Disulfoton	13.81	13.76	13.86	469	500	-6	
Methyl-parathion	16.91	16.84	16.98	959	1000	-4		Methyl-parathion	15.02	14.95	15.09	504	500	1	
Ronnel	16.91	16.84	16.98	959	1000	-4		Ronnel	15.47	15.40	15.54	503	500	1	
Malathion	17.44	17.37	17.51	480	500	-4		Malathion	16.13	16.06	16.20	518	500	4	
Parathion	18.35	18.28	18.42	573	500	15		Fenthion	16.43	16.36	16.50	514	500	3	
Chlorpyrifos	17.94	17.87	18.01	495	500	-1		Chlorpyrifos	16.51	16.44	16.58	1017	1000	2	
Fenthion	18.02	17.95	18.09	460	500	-8		Parathion	16.51	16.44	16.58	1017	1000	2	
Trichloronate	18.37	18.30	18.44	418	500	-16	*	Trichloronate	16.95	16.88	17.02	494	500	-1	
Stirifos	20.08	20.01	20.15	517	500	3		Stirifos	18.59	18.52	18.66	538	500	8	
Tokuthion	20.70	20.63	20.77	499	500	0		Tokuthion	19.14	19.07	19.21	511	500	2	
Merphos	20.56	20.49	20.63	486	500	-3		Merphos	19.28	19.21	19.35	490	500	-2	
Fensulfothion	21.97	21.90	22.04	526	500	5		Fensulfothion	20.30	20.23	20.37	628	500	26	*
Bolstar	22.29	22.22	22.36	495	500	-1		Bolstar	20.85	20.78	20.92	478	500	-4	
EPN	24.27	24.20	24.34	490	500	-2		EPN	22.62	22.55	22.69	524	500	5	
Guthion	25.39	25.32	25.46	526	500	5		Guthion	23.47	23.40	23.54	562	500	12	
Coumaphos	26.77	26.70	26.84	520	500	4		Coumaphos	25.08	25.01	25.15	588	500	18	*

Average % Difference: 5

Average % Difference: 6

000472

7D

ORGANOPHOSPHORUS PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name : SPECIALIZED ASSAYS
Lab Code : SASSAYS

SDG : 189955

EPA Sample ID (CCV) : CCV04
Lab Sample ID (CCV) : op 0.5

Date Analyzed : 5/5/00
Time Analyzed : 17:09

GC Column (1) : DB-XLB ID : 30 m x 0.45 mm
Initial Calibration Date(s) : 5/4/00

GC Column (2) : DB-5 ID : 30 m x 0.45 mm
Initial Calibration Date(s) : 5/4/00

COMPOUNDS	RT	RT Window From	RT Window To	Calc. Amount (ng)	Known Amount (ng)	% Diff.		COMPOUNDS	RT	RT Window From	RT Window To	Calc. Amount (ng)	Known Amount (ng)	% Diff.	
Dichlorvos	5.96	5.91	6.01	480	500	-4		Dichlorvos	5.35	5.30	5.40	509	500	2	
1Bromo2nitrobenzene	8.15	8.10	8.20	22233	20000	11		1Bromo2nitrobenzene	6.91	6.86	6.96	25646	20000	28	*
Mevinphos	9.23	9.18	9.28	432	500	-14		Mevinphos	8.40	8.35	8.45	482	500	-4	
Monocrotophos	12.01	11.96	12.06	495	500	-1		Monocrotophos	11.17	11.12	11.22	522	500	4	
Ethrop	12.41	12.36	12.46	479	500	-4		Ethrop	11.46	11.41	11.51	488	500	-2	
Naled	12.83	12.78	12.88	931	1000	-7		Naled	11.81	11.76	11.86	500	500	0	
Sulfotepp	12.83	12.78	12.88	931	1000	-7		TEPP	12.15	12.10	12.20	981	1000	-2	
TEPP	13.27	13.22	13.32	969	1000	-3		Sulfotepp	12.15	12.10	12.20	981	1000	-2	
Phorate	13.27	13.22	13.32	969	1000	-3		Phorate	12.30	12.25	12.35	506	500	1	
neton	13.76	13.71	13.81	455	500	-9		Demeton	12.71	12.66	12.76	551	500	10	
Dimethoate	14.16	14.11	14.21	432	500	-14		Dimethoate	12.73	12.68	12.78	455	500	-9	
Diazinon	14.44	14.39	14.49	448	500	-10		Diazinon	13.66	13.61	13.71	474	500	-5	
Disulfoton	15.00	14.95	15.05	455	500	-9		Disulfoton	13.81	13.76	13.86	452	500	-10	
Methyl-parathion	16.92	16.85	16.99	925	1000	-8		Methyl-parathion	15.02	14.95	15.09	456	500	-9	
Ronnel	16.92	16.85	16.99	925	1000	-8		Ronnel	15.48	15.41	15.55	489	500	-2	
Malathion	17.45	17.38	17.52	464	500	-7		Malathion	16.13	16.06	16.20	499	500	0	
Parathion	18.34	18.27	18.41	466	500	-7		Fenthion	16.44	16.37	16.51	465	500	-7	
Chlorpyrifos	17.94	17.87	18.01	474	500	-5		Chlorpyrifos	16.52	16.45	16.59	999	1000	0	
Fenthion	18.03	17.96	18.10	448	500	-10		Parathion	16.52	16.45	16.59	999	1000	0	
Trichloronate	18.39	18.32	18.46	462	500	-8		Trichloronate	16.96	16.89	17.03	505	500	1	
Stirifos	20.09	20.02	20.16	475	500	-5		Stirifos	18.61	18.54	18.68	512	500	2	
Tokuthion	20.71	20.64	20.78	464	500	-7		Tokuthion	19.15	19.08	19.22	484	500	-3	
Merphos	20.57	20.50	20.64	460	500	-8		Merphos	19.29	19.22	19.36	482	500	-4	
Fensulfothion	21.97	21.90	22.04	485	500	-3		Fensulfothion	20.31	20.24	20.38	540	500	8	
Bolstar	22.30	22.23	22.37	461	500	-8		Bolstar	20.86	20.79	20.93	469	500	-6	
EPN	24.27	24.20	24.34	477	500	-5		EPN	22.64	22.57	22.71	511	500	2	
Guthion	25.39	25.32	25.46	515	500	3		Guthion	23.51	23.44	23.58	535	500	7	
Coumaphos	26.76	26.69	26.83	495	500	-1		Coumaphos	25.11	25.04	25.18	549	500	10	

Average % Difference: 7

Average % Difference: 5

000473

Sequence Summary Report

Sequence : C:\EZChrom Elite\Sequence\050400v.seq
User : None
Printed : 5/6/2000 09:48:54

Start Time	**NPD A -- DB XLB**
Sample ID	op 0.5 (4-w-mc-195-3)
Filename	C:\EZChrom Elite\Varian5\Public\050400v.024
Date	5/5/2000 06:08:16

Start Time	**NPD A -- DB XLB**
Sample ID	12302 sbp
Filename	C:\EZChrom Elite\Varian5\Public\050400v.025
Date	5/5/2000 06:43:09

Start Time	**NPD A -- DB XLB**
Sample ID	12303 ssp
Filename	C:\EZChrom Elite\Varian5\Public\050400v.026
Date	5/5/2000 07:17:58

Start Time	**NPD A -- DB XLB**
Sample ID	12304 ssp
Filename	C:\EZChrom Elite\Varian5\Public\050400v.027
Date	5/5/2000 07:52:49

Start Time	**NPD A -- DB XLB**
Sample ID	13359 lcs
Filename	C:\EZChrom Elite\Varian5\Public\050400v.028
Date	5/5/2000 08:27:38

Start Time	**NPD A -- DB XLB**
Sample ID	58004
Filename	C:\EZChrom Elite\Varian5\Public\050400v.029
Date	5/5/2000 09:02:31

Start Time	**NPD A -- DB XLB**
Sample ID	58005
Filename	C:\EZChrom Elite\Varian5\Public\050400v.030
Date	5/5/2000 09:37:21

Start Time	**NPD A -- DB XLB**
Sample ID	58006

Sequence Summary Report

Sequence : C:\EZChrom Elite\Sequence\050400v.seq
User : None
ated : 5/6/2000 09:48:54

Filename	C:\EZChrom Elite\Varian5\Public\050400v.031
Date	5/5/2000 10:12:14

Start Time	**NPD A -- DB XLB**
Sample ID	58007
Filename	C:\EZChrom Elite\Varian5\Public\050400v.032
Date	5/5/2000 10:47:02

Start Time	**NPD A -- DB XLB**
Sample ID	58008
Filename	C:\EZChrom Elite\Varian5\Public\050400v.033
Date	5/5/2000 11:22:01

Start Time	**NPD A -- DB XLB**
Sample ID	58009
Filename	C:\EZChrom Elite\Varian5\Public\050400v.034
Date	5/5/2000 11:56:53

Start Time	**NPD A -- DB XLB**
Sample ID	op 0.5 (4-w-mc-195-3)
Filename	C:\EZChrom Elite\Varian5\Public\050400v.035
Date	5/5/2000 12:31:49

Start Time	**NPD A -- DB XLB**
Sample ID	58010
Filename	C:\EZChrom Elite\Varian5\Public\050400v.036
Date	5/5/2000 13:06:42

Start Time	**NPD A -- DB XLB**
Sample ID	58011
Filename	C:\EZChrom Elite\Varian5\Public\050400v.037
Date	5/5/2000 13:41:39

tart Time	**NPD A -- DB XLB**
ample ID	58012
Filename	C:\EZChrom Elite\Varian5\Public\050400v.038
Date	5/5/2000 14:16:30

Sequence Summary Report

Sequence : C:\EZChrom Elite\Sequence\050400v.seq
User : None
'nted : 5/6/2000 09:48:54

Start Time	**NPD A -- DB XLB**
Sample ID	58013
Filename	C:\EZChrom Elite\Varian5\Public\050400v.039
Date	5/5/2000 14:51:29

Start Time	**NPD A -- DB XLB**
Sample ID	59073
Filename	C:\EZChrom Elite\Varian5\Public\050400v.040
Date	5/5/2000 16:34:32

Start Time	**NPD A -- DB XLB**
Sample ID	op 0.5 (4-w-mc-195-3)
Filename	C:\EZChrom Elite\Varian5\Public\050400v.041
Date	5/5/2000 17:09:30

Start Time	**NPD A -- DB XLB**
Sample ID	
Filename	
Date	
	Min
	0.00

Start Time	**NPD A -- DB XLB**
Sample ID	
Filename	
Date	
	Max
	0.00

Start Time	**NPD A -- DB XLB**
Sample ID	
Filename	
Date	
	Mean
	0.00

Start Time	**NPD A -- DB XLB**
Sample ID	
Filename	
Date	
	Std Dev
	0.000

Sequence Summary Report

Sequence : C:\EZChrom Elite\Sequence\050400v.seq
User : None
nted : 5/6/2000 09:48:54

Start Time	**NPD A -- DB XLB**
Sample ID	
Filename	
Date	
	%RSD
	0.000

ORGANOPHOSPHORUS PESTICIDES SW846/8141A

RAW DATA

SPECIALIZED ASSAYS, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264716

Matrix: Soil
% Dry Weight: 87.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8141A
Delivery Group: 189755
Instrument: Varian-5
Grams Extracted: 10.5 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58004
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 5/00
Analysis Time: 9:02
Sample GC Group: 306

Extraction Date: 5/ 2/00

FORM I

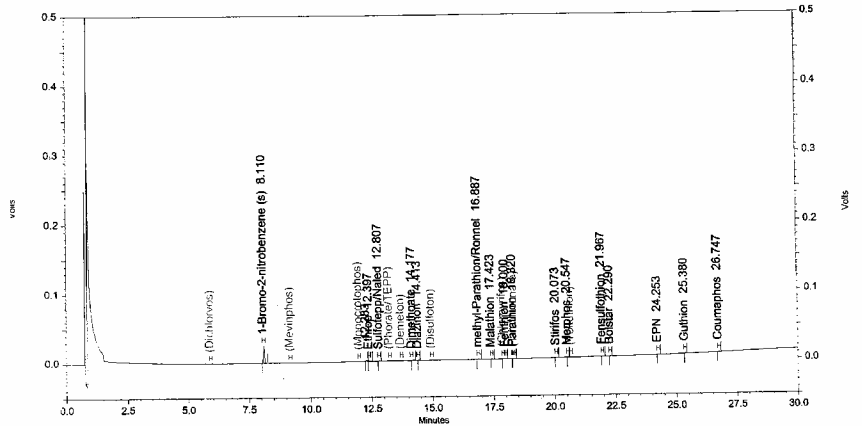
CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
86-50-0	Azinphos, methyl	109.	U
35400-43-2	Bolstar	109.	U
2921-88-2	Chlorpyrifos	109.	U
56-72-4	Coumaphos	109.	U
8065-48-3	Demeton-o	109.	U
126-75-0	Demeton-s	109.	U
333-41-5	Diazinon	109.	U
62-73-7	Dichlorvos	218.	U
298-04-4	Disulfoton	218.	U
13194-48-4	Ethoprop	109.	U
115-90-2	Fensulfothion	218.	U
55-38-9	Fenthion	218.	U
150-50-5	Merphos	218.	U
7786-34-7	Mevinphos	218.	U
142-59-6	Naled	1090	U
298-00-0	Methylparathion	218.	U
298-02-2	Phorate	109.	U
299-84-3	Ronnel	218.	U
22248-79-9	Stirofos	109.	U
34643-46-4	Tokuthion	109.	U
327-98-0	Trichloronate	109.	U
60-51-5	Dimethoate	218.	U
2104-64-5	EPN	109.	U
121-75-5	Malathion	109.	U
6923-22-4	Monocrotophos	109.	U
56-38-2	Ethyl parathion	109.	U
3689-24-5	Sulfotep	109.	U
107-49-3	TEPP	218.	U

COPY 1

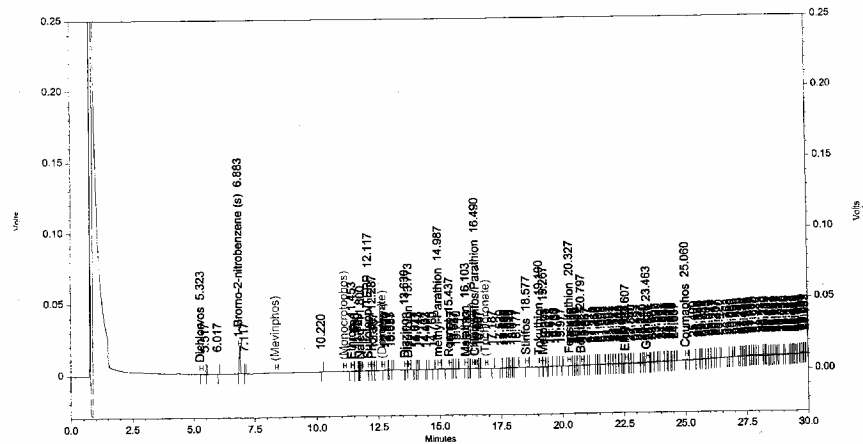
S ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report

File Name : C:\EZChrom Elite\Varian5\Public\050400v.029
Sample Name : 58004
Acquired : 5/5/2000 09:02:31
Method : C:\EZChrom Elite\Methods\OPpest varian.met

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)



Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)



S ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report 376

File Name : C:\EZChrom Elite\Varian5\Public\050400v.029
Sample Name : 58004
Acquired : 5/5/2000 09:02:31
Method : C:\EZChrom Elite\Methods\OPpest varian.met

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos			0.0000 BDL
1-Bromo-2-nitrobenzene (s)	8.110	77989	5.6779
Mevinphos			0.0000 BDL
Monocrotophos			0.0000 BDL
Ethrop	12.397	3130	0.0048
Sulfotepp/Naled	12.807	1088	0.0017
Phorate/TEPP			0.0000 BDL
Demeton			0.0000 BDL
Dimethoate	14.177	2726	0.0745
Diazinon	14.413	679	0.0011
Disulfoton			0.0000 BDL
Methyl-Parathion/Ronnel	16.887	4451	0.0080
Malathion	17.423	1499	0.0032
Chlorpyrifos			0.0000 BDL
Parathion	18.000	3652	0.0056
Parathion	18.320	2937	0.0065
Trichloronate			0.0000 BDL
Stirifos	20.073	1475	0.0044
Merphos	20.547	812	0.0018
Tokuthion			0.0000 BDL
Phensulfothion	21.967	3227	0.0104
Bolstar	22.290	1338	0.0027
EPN	24.253	2233	0.0052
Carbophenothion	25.380	2640	0.0076
Coumaphos	26.747	2027	0.0090

Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos	5.323	1147	0.0046
1-Bromo-2-nitrobenzene (s)	6.883	56038	6.7534
Mevinphos			0.0000 BDL
Monocrotophos			0.0000 BDL
Ethrop	11.453	1448	0.0045
Naled	11.800	268	0.0045
Sulfotepp/TEPP	12.117	678	0.0027
Phorate	12.287	761	0.0021
Demeton			0.0000 BDL
Dimethoate			0.0000 BDL
Diazinon	13.630	646	0.0025
Disulfoton	13.773	528	0.0016
Methyl-Parathion	14.987	1888	0.0062
Ronnel	15.437	2286	0.0093
Malathion	16.103	1407	0.0066
Carbophenothion			0.0000 BDL
Chlorpyrifos/Parathion	16.490	5049	0.0179
Trichloronate			0.0000 BDL
Stirifos	18.577	1054	0.0072
Tokuthion	19.100	1878	0.0084
Merphos	19.267	652	0.0036
Phensulfothion	20.327	2853	0.0230
Bolstar	20.797	2143	0.0092
EPN	22.607	4272	0.0201
Carbophenothion	23.463	5359	0.0290
Coumaphos	25.060	2746	0.0184

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264717

Matrix: Soil
% Dry Weight: 57.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8141A
Delivery Group: 189955
Instrument: Varian-5
Grams Extracted: 9.87 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58005
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 5/00
Analysis Time: 9:37
Sample QC Group: 306

Extraction Date: 5/ 2/00

FORM I

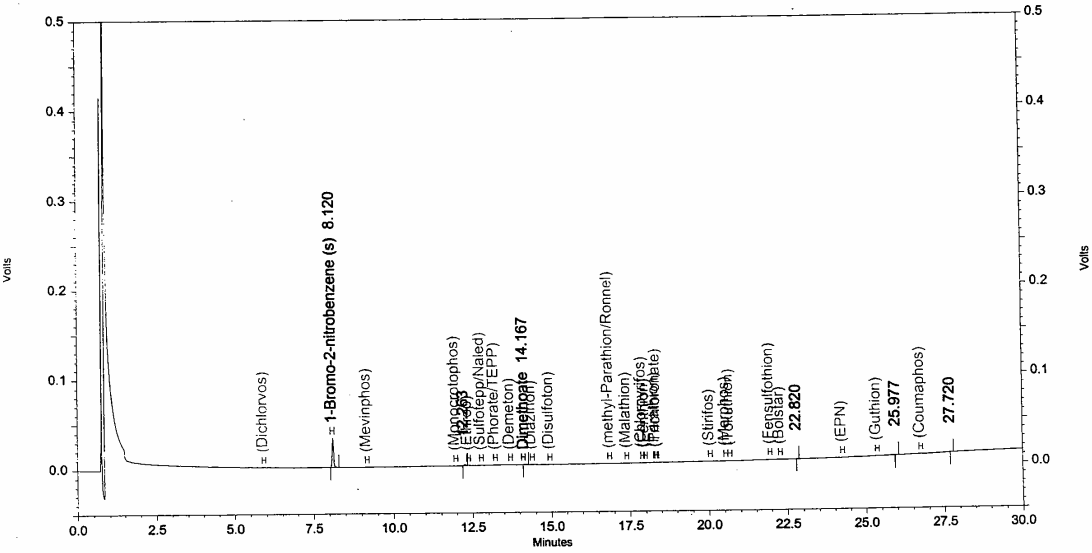
CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
86-50-0	Azinphos, methyl	177.	U
35400-43-2	Bolstar	177.	U
2921-88-2	Chlorpyrifos	177.	U
56-72-4	Coumaphos	177.	U
8065-48-3	Demeton-o	177.	U
126-75-0	Demeton-s	177.	U
333-41-5	Diazinon	177.	U
62-73-7	Dichlorvos	356.	U
298-04-4	Disulfoton	356.	U
13194-48-4	Ethoprop	177.	U
115-90-2	Fensulfothion	356.	U
55-38-9	Fenthion	356.	U
150-50-5	Merphos	356.	U
7786-34-7	Mevinphos	356.	U
142-59-6	Naled	1770	U
298-00-0	Methylparathion	356.	U
298-02-2	Phorate	177.	U
299-84-3	Ronnel	356.	U
22248-79-9	Stirofos	177.	U
34643-46-4	Tokuthion	177.	U
327-98-0	Trichloronate	177.	U
60-51-5	Dimethoate	356.	U
2104-64-5	EPN	177.	U
121-75-5	Malathion	177.	U
6923-22-4	Monocrotophos	177.	U
56-38-2	Ethyl parathion	177.	U
3689-24-5	Sulfotep	177.	U
107-49-3	TEPP	356.	U

COPY 1

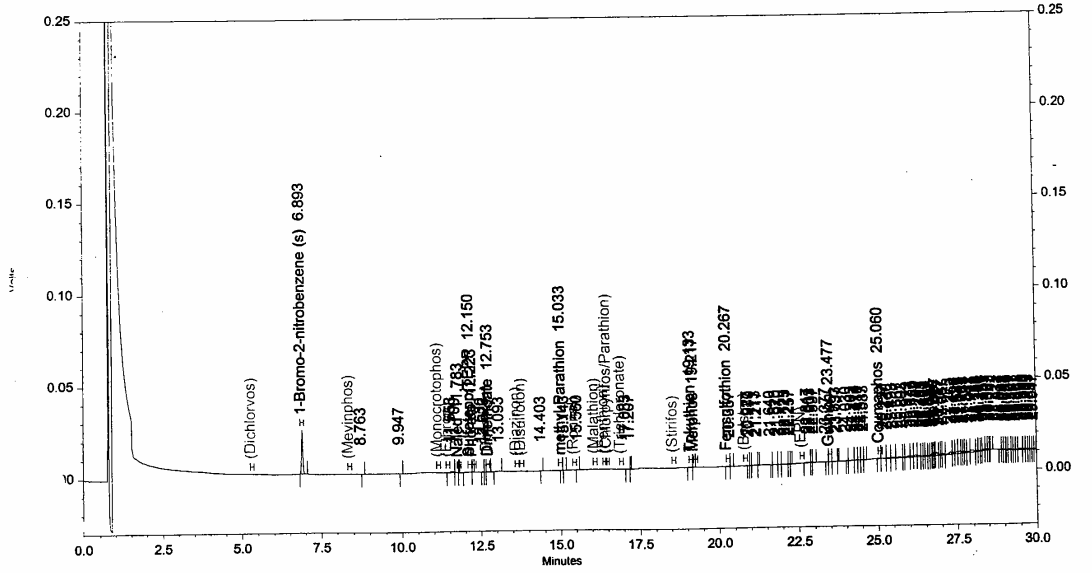
S ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report 378

File Name : C:\EZChrom Elite\Varian5\Public\050400v.030
Sa ple Name : 58005
Ac ired : 5/5/2000 09:37:21
Meth : C:\EZChrom Elite\Methods\OPpest varian.met

Cl nnel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)



C annel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)



000483

Specialized Assays, Inc. -- Extractable Organics : Dual NPD Report 379

File Name : C:\EZChrom Elite\Varian5\Public\050400v.030
Sample Name : 58005
Acquired : 5/5/2000 09:37:21
Method : C:\EZChrom Elite\Methods\OPpest varian.met

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos			0.0000 BDL
1-Bromo-2-nitrobenzene (s)	8.120	100799	7.3386
Mevinphos			0.0000 BDL
Monocrotophos			0.0000 BDL
Ethrop			0.0000 BDL
Sulfotepp/Naled			0.0000 BDL
Phorate/TEPP			0.0000 BDL
Dimeton			0.0000 BDL
Dimethoate	14.167	1640	0.0724
Diazinon			0.0000 BDL
Disulfoton			0.0000 BDL
methyl-Parathion/Ronnel			0.0000 BDL
Malathion			0.0000 BDL
Chlorpyrifos			0.0000 BDL
Fenthion			0.0000 BDL
Parathion			0.0000 BDL
Trichloronate			0.0000 BDL
Stirifos			0.0000 BDL
Merphos			0.0000 BDL
Tokuthion			0.0000 BDL
Fensulfothion			0.0000 BDL
Bolstar			0.0000 BDL
EPN			0.0000 BDL
Chlorthion			0.0000 BDL
Coumaphos			0.0000 BDL

Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos			0.0000 BDL
1-Bromo-2-nitrobenzene (s)	6.893	74233	8.9462
Mevinphos			0.0000 BDL
Monocrotophos			0.0000 BDL
Ethrop			0.0000 BDL
Naled	11.783	118	0.0020
Sulfotepp/TEPP	12.150	2155	0.0087
Phorate	12.223	343	0.0010
Dimeton			0.0000 BDL
Dimethoate	12.753	732	0.0026
Diazinon			0.0000 BDL
Disulfoton			0.0000 BDL
methyl-Parathion	15.033	279	0.0009
Ronnel			0.0000 BDL
Malathion			0.0000 BDL
Fenthion			0.0000 BDL
Chlorpyrifos/Parathion			0.0000 BDL
Trichloronate			0.0000 BDL
Stirifos			0.0000 BDL
Tokuthion	19.133	698	0.0031
Merphos	19.217	327	0.0018
Fensulfothion	20.267	1805	0.0145
Bolstar			0.0000 BDL
EPN			0.0000 BDL
Chlorthion	23.477	427	0.0023
Coumaphos	25.060	589	0.0040

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264718

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8141A
Delivery Group: 189955
Instrument: Varian-5
Grams Extracted: 10.3 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58006
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 5/00
Analysis Time: 10:12
Sample QC Group: 306

Extraction Date: 5/ 2/00

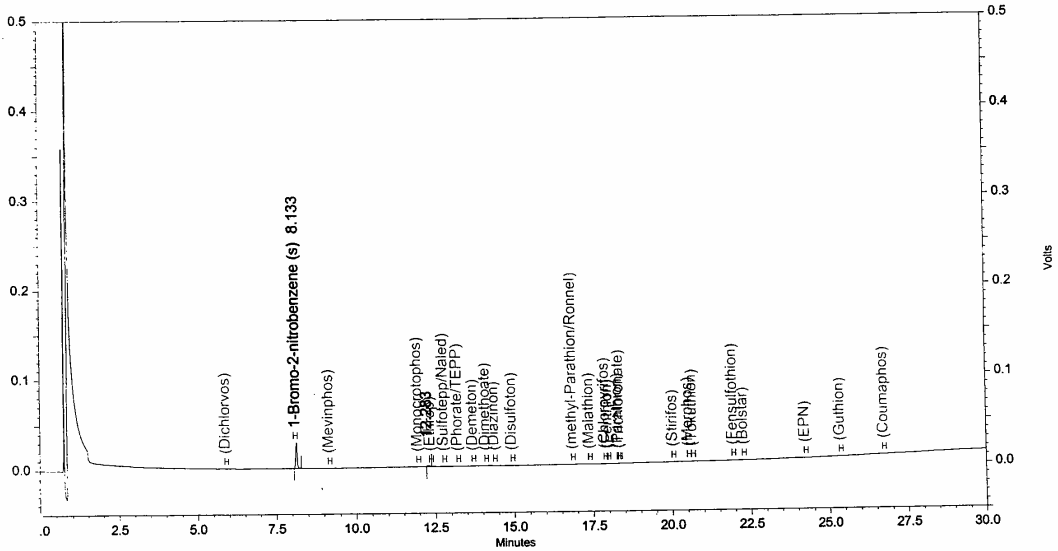
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
86-50-0	Azinphos, methyl	115.	U
35400-43-2	Bolstar	115.	U
2921-88-2	Chlorpyrifos	115.	U
56-72-4	Coumaphos	115.	U
8065-48-3	Demeton-o	115.	U
126-75-0	Demeton-s	115.	U
333-41-5	Diazinon	115.	U
62-73-7	Dichlorvos	231.	U
298-04-4	Disulfoton	231.	U
13194-48-4	Ethoprop	115.	U
115-90-2	Fensulfothion	231.	U
55-38-9	Fenthion	231.	U
150-50-5	Merphos	231.	U
7786-34-7	Mevinphos	231.	U
142-59-6	Naled	1160	U
298-00-0	Methylparathion	231.	U
298-02-2	Phorate	115.	U
299-84-3	Ronnel	231.	U
22248-79-9	Stirofos	115.	U
34643-46-4	Tokuthion	115.	U
327-98-0	Trichloronate	115.	U
60-51-5	Dimethoate	231.	U
2104-64-5	EPN	115.	U
121-75-5	Malathion	115.	U
6923-22-4	Monocrotophos	115.	U
56-38-2	Ethyl parathion	115.	U
3689-24-5	Sulfotep	115.	U
107-49-3	TEPP	231.	U

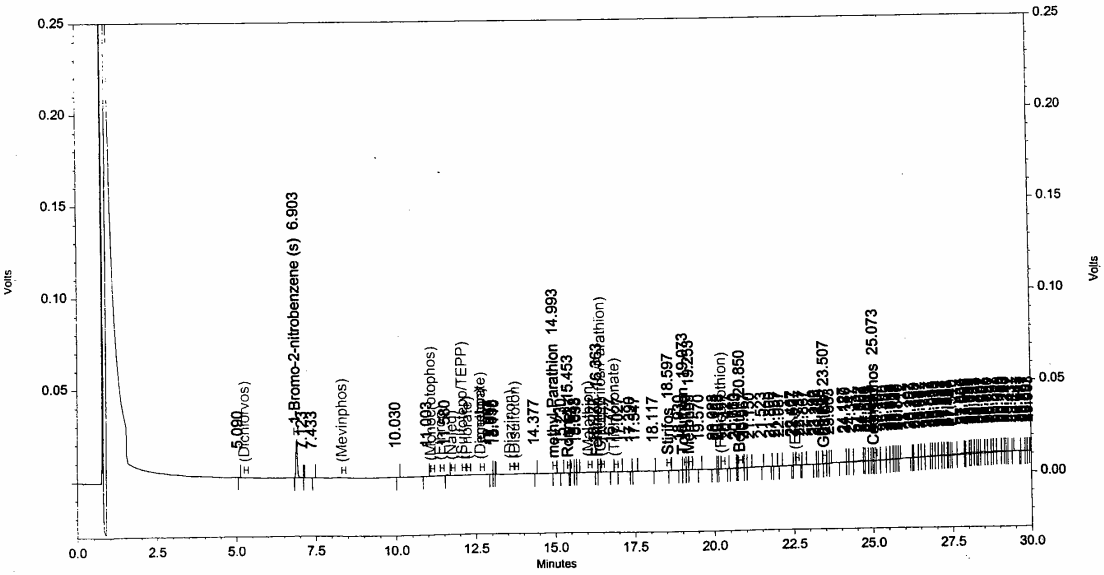
;p ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report 381

ile Name : C:\EZChrom Elite\Varian5\Public\050400v.031
ar ple Name : 58006
.qu ed : 5/5/2000 10:12:14
lethc C:\EZChrom Elite\Methods\OPpest varian.met

:h nnel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)



:l nnel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)



S ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report 382

File Name : **C:\EZChrom Elite\Varian5\Public\050400v.031**
Sa ple Name : **58006**
Ac red : **5/5/2000 10:12:14**
Meth : **C:\EZChrom Elite\Methods\OPpest varian.met**

Cl nnel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos			0.0000 BDL
1 Bromo-2-nitrobenzene (s)	8.133	88294	6.4281
M vinphos			0.0000 BDL
M ocrotophos			0.0000 BDL
Ethrop			0.0000 BDL
Sulfotepp/Naled			0.0000 BDL
F rate/TEPP			0.0000 BDL
D meton			0.0000 BDL
Dimethoate			0.0000 BDL
Diazinon			0.0000 BDL
D ulfoton			0.0000 BDL
r thyl-Parathion/Ronnel			0.0000 BDL
Malathion			0.0000 BDL
Chlorpyrifos			0.0000 BDL
F thion			0.0000 BDL
F rathion			0.0000 BDL
Trichloronate			0.0000 BDL
Stirifos			0.0000 BDL
M rphos			0.0000 BDL
kuthion			0.0000 BDL
Ensulfothion			0.0000 BDL
Bolstar			0.0000 BDL
EPN			0.0000 BDL
thion			0.0000 BDL
umaphos			0.0000 BDL

Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos			0.0000 BDL
1-Bromo-2-nitrobenzene (s)	6.903	65345	7.8750
Mevinphos			0.0000 BDL
onocrotophos			0.0000 BDL
Ethrop			0.0000 BDL
Naled			0.0000 BDL
Sulfotepp/TEPP			0.0000 BDL
orate			0.0000 BDL
emeton			0.0000 BDL
Dimethoate			0.0000 BDL
Diazinon			0.0000 BDL
sulfoton			0.0000 BDL
ethyl-Parathion	14.993	492	0.0016
Ronnel	15.453	116	0.0005
Malathion			0.0000 BDL
enthion	16.363	182	0.0008
hlorpyrifos/Parathion			0.0000 BDL
Trichloronate			0.0000 BDL
Stirifos	18.597	571	0.0039
okuthion	19.073	427	0.0019
lerphos	19.253	593	0.0032
Ensulfothion			0.0000 BDL
Bolstar	20.850	2251	0.0097
EPN			0.0000 BDL
uthion	23.507	1568	0.0085
oumaphos	25.073	333	0.0022

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264719

Matrix: Soil
% Dry Weight: 81.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8141A
Delivery Group: 189755
Instrument: Varian-5
Grams Extracted: 10.7 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58007
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 5/00
Analysis Time: 10:47
Sample QC Group: 306

Extraction Date: 5/ 2/00

FORM I

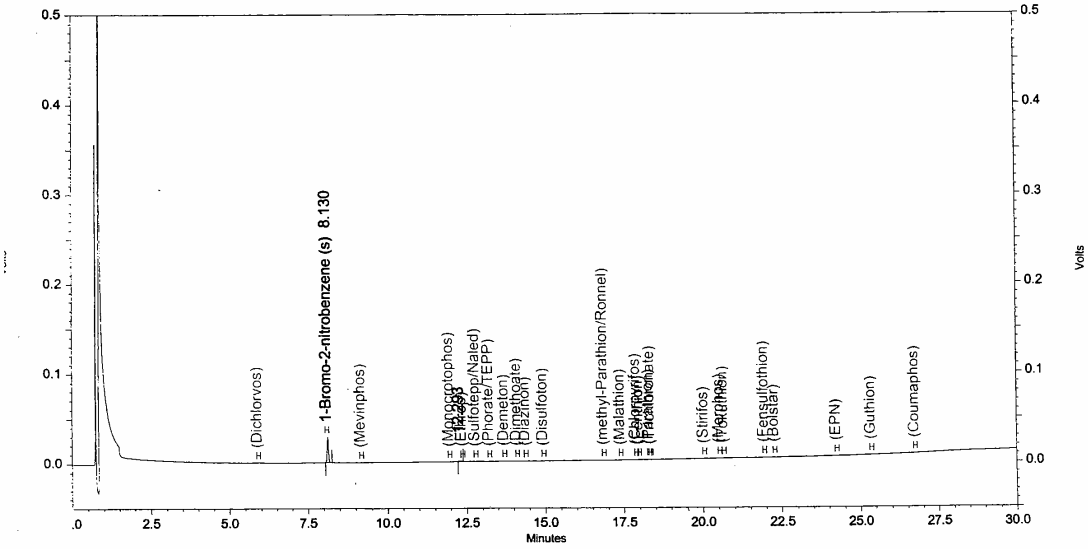
CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
86-50-0	Azinphos, methyl	115.	U
35400-43-2	Bolstar	115.	U
2921-88-2	Chlorpyrifos	115.	U
56-72-4	Coumaphos	115.	U
8065-48-3	Demeton-o	115.	U
126-75-0	Demeton-s	115.	U
333-41-5	Diazinon	115.	U
62-73-7	Dichlorvos	231.	U
298-04-4	Disulfoton	231.	U
13194-48-4	Ethoprop	115.	U
115-90-2	Fensulfothion	231.	U
55-38-9	Fenthion	231.	U
150-50-5	Merphos	231.	U
7786-34-7	Mevinphos	231.	U
142-59-6	Naled	1150	U
298-00-0	Methylparathion	231.	U
298-02-2	Phorate	115.	U
299-84-3	Ronnel	231.	U
22248-79-9	Stirofos	115.	U
34643-46-4	Tokuthion	115.	U
327-98-0	Trichloronate	115.	U
60-51-5	Dimethoate	231.	U
2104-64-5	EPN	115.	U
121-75-5	Malathion	115.	U
6923-22-4	Monocrotophos	115.	U
56-38-2	Ethyl parathion	115.	U
3689-24-5	Sulfotep	115.	U
107-49-3	TEPP	231.	U

COPY 1

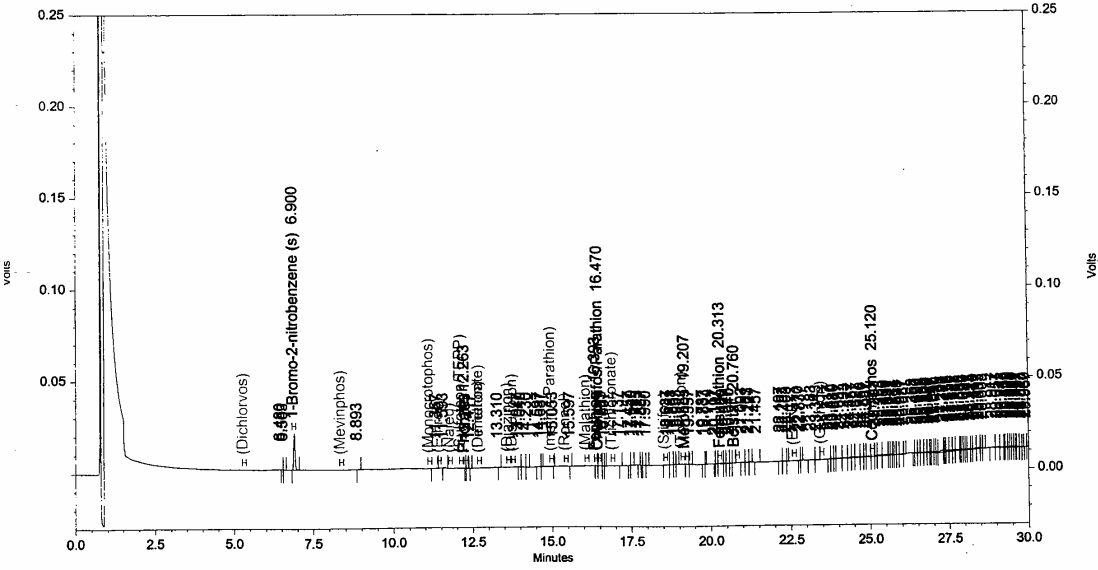
Specialized Assays, Inc. -- Extractable Organics : Dual NPD Report 384

File Name : C:\EZChrom Elite\Varian5\Public\050400v.032
Sample Name : 58007
Acquired : 5/5/2000 10:47:02
Method : C:\EZChrom Elite\Methods\OPpest varian.met

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)



Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)



Specialized Assays, Inc. -- Extractable Organics : Dual NPD Report 385

File Name : C:\EZChrom Elite\Varian5\Public\050400v.032
Sample Name : 58007
Acquired : 5/5/2000 10:47:02
Method : C:\EZChrom Elite\Methods\OPpest varian.met

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos			0.0000 BDL
1-Bromo-2-nitrobenzene (s)	8.130	86083	6.2672
Mevinphos			0.0000 BDL
Monocrotophos			0.0000 BDL
Ethrop			0.0000 BDL
Sulfotepp/Naled			0.0000 BDL
Phorate/TEPP			0.0000 BDL
Dimeton			0.0000 BDL
Dimethoate			0.0000 BDL
Diazinon			0.0000 BDL
Disulfoton			0.0000 BDL
methyl-Parathion/Ronnel			0.0000 BDL
Malathion			0.0000 BDL
Chlorpyrifos			0.0000 BDL
Fenthion			0.0000 BDL
Parathion			0.0000 BDL
Trichloronate			0.0000 BDL
Stirifos			0.0000 BDL
Merphos			0.0000 BDL
Tokuthion			0.0000 BDL
Fensulfothion			0.0000 BDL
Bolstar			0.0000 BDL
EPN			0.0000 BDL
Chlorthion			0.0000 BDL
Coumaphos			0.0000 BDL

Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos			0.0000 BDL
1-Bromo-2-nitrobenzene (s)	6.900	60650	7.3092
Mevinphos			0.0000 BDL
Monocrotophos			0.0000 BDL
Ethrop			0.0000 BDL
Naled			0.0000 BDL
Sulfotepp/TEPP			0.0000 BDL
Phorate	12.263	127	0.0004
Dimeton			0.0000 BDL
Dimethoate			0.0000 BDL
Diazinon			0.0000 BDL
Disulfoton			0.0000 BDL
methyl-Parathion			0.0000 BDL
Ronnel			0.0000 BDL
Malathion			0.0000 BDL
Fenthion	16.393	232	0.0010
Chlorpyrifos/Parathion	16.470	805	0.0029
Trichloronate			0.0000 BDL
Stirifos			0.0000 BDL
Tokuthion			0.0000 BDL
Merphos	19.207	524	0.0029
Fensulfothion	20.313	1855	0.0149
Bolstar	20.760	571	0.0024
EPN			0.0000 BDL
Chlorthion			0.0000 BDL
Coumaphos	25.120	878	0.0059

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264720

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8141A
Delivery Group: 189933
Instrument: Varian-3
Grams Extracted: 10.6 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58008
Date Sampled: 4/23/00
Date Received: 4/28/00
Analysis Date: 5/ 3/00
Analysis Time: 11:22
Sample QC Group: 306

Extraction Date: 5/ 2/00

FORM I

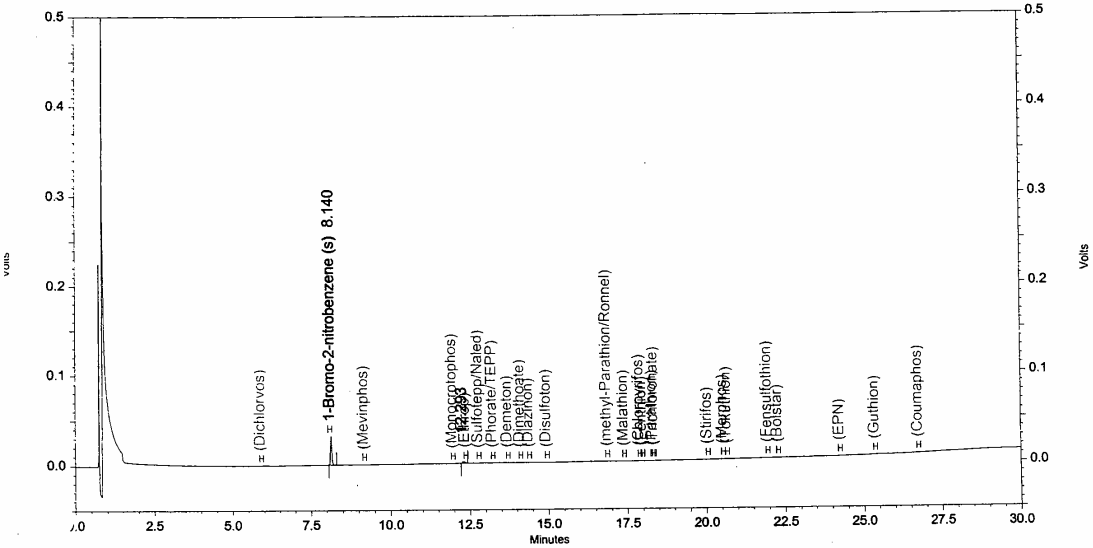
CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
86-50-0	Azinphos, methyl	112.	U
35400-43-2	Bolstar	112.	U
2921-88-2	Chlorpyrifos	112.	U
56-72-4	Coumaphos	112.	U
8065-48-3	Demeton-o	112.	U
126-75-0	Demeton-s	112.	U
333-41-5	Diazinon	112.	U
62-73-7	Dichlorvos	225.	U
298-04-4	Disulfoton	225.	U
13194-48-4	Ethoprop	112.	U
115-90-2	Fensulfothion	225.	U
55-38-9	Fenthion	225.	U
150-50-5	Merphos	225.	U
7786-34-7	Mevinphos	225.	U
142-59-6	Naled	1120	U
298-00-0	Methylparathion	225.	U
298-02-2	Phorate	112.	U
299-84-3	Ronnel	225.	U
22248-79-9	Stirofos	112.	U
34643-46-4	Tokuthion	112.	U
327-98-0	Trichloronate	112.	U
60-51-5	Dimethoate	225.	U
2104-64-5	EPN	112.	U
121-75-5	Malathion	112.	U
6923-22-4	Monocrotophos	112.	U
56-38-2	Ethyl parathion	112.	U
3689-24-5	Sulfotep	112.	U
107-49-3	TEPP	225.	U

COPY 1

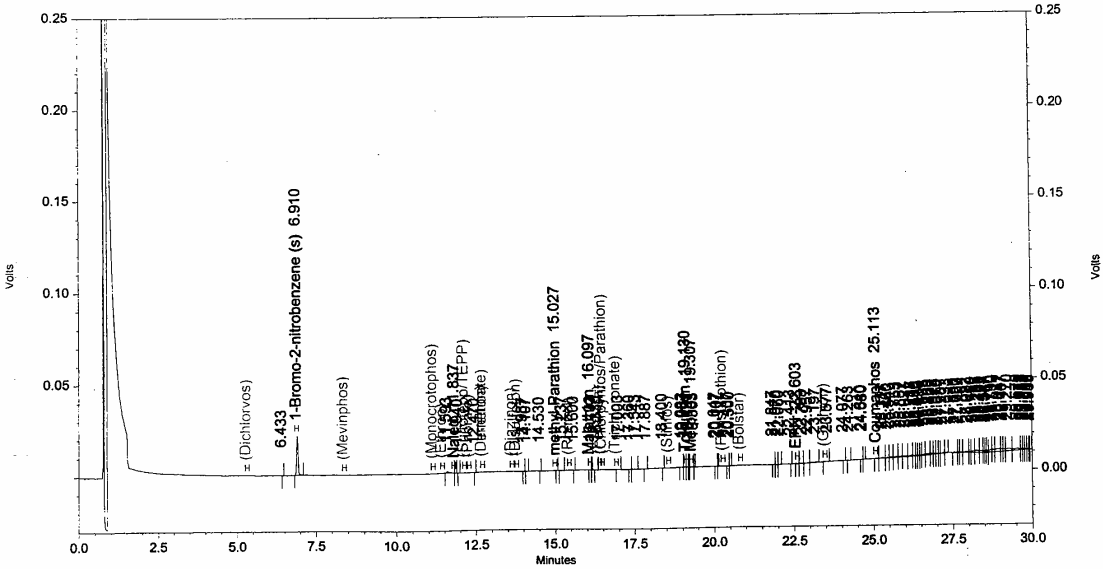
S ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report 387

File Name : C:\EZChrom Elite\Varian5\Public\050400v.033
Sample Name : 58008
Ac red : 5/5/2000 11:22:01
Meth : C:\EZChrom Elite\Methods\OPpest varian.met

Cl nnel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)



C annel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)



000492

S ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report 388

File Name : C:\EZChrom Elite\Varian5\Public\050400v.033
Sample Name : 58008
Acquired : 5/5/2000 11:22:01
Method : C:\EZChrom Elite\Methods\OPpest varian.met

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos			0.0000 BDL
1-Bromo-2-nitrobenzene (s)	8.140	97194	7.0761
Mevinphos			0.0000 BDL
Monocrotophos			0.0000 BDL
Ethrop			0.0000 BDL
Sulfotepp/Naled			0.0000 BDL
Phorate/TEPP			0.0000 BDL
Demeton			0.0000 BDL
Dimethoate			0.0000 BDL
Diazinon			0.0000 BDL
Disulfoton			0.0000 BDL
Methyl-Parathion/Ronnel			0.0000 BDL
Malathion			0.0000 BDL
Chlorpyrifos			0.0000 BDL
Parathion			0.0000 BDL
Parathion			0.0000 BDL
Trichloronate			0.0000 BDL
Stirifos			0.0000 BDL
Merphos			0.0000 BDL
Tokuthion			0.0000 BDL
Ensulfothion			0.0000 BDL
Bolstar			0.0000 BDL
EPN			0.0000 BDL
Methion			0.0000 BDL
Coumaphos			0.0000 BDL

Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos			0.0000 BDL
1-Bromo-2-nitrobenzene (s)	6.910	68692	8.2784
Mevinphos			0.0000 BDL
Monocrotophos			0.0000 BDL
Ethrop			0.0000 BDL
Naled	11.837	192	0.0032
Sulfotepp/TEPP			0.0000 BDL
Phorate			0.0000 BDL
Demeton			0.0000 BDL
Dimethoate			0.0000 BDL
Diazinon			0.0000 BDL
Disulfoton			0.0000 BDL
Methyl-Parathion	15.027	196	0.0006
Ronnel			0.0000 BDL
Malathion	16.097	422	0.0020
Methion			0.0000 BDL
Chlorpyrifos/Parathion			0.0000 BDL
Trichloronate			0.0000 BDL
Stirifos			0.0000 BDL
Tokuthion	19.130	550	0.0025
Merphos	19.307	841	0.0046
Ensulfothion			0.0000 BDL
Bolstar			0.0000 BDL
EPN	22.603	502	0.0024
Methion			0.0000 BDL
Coumaphos	25.113	1204	0.0081

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264721

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8141A
Delivery Group: 189955
Instrument: Varian-5
Grams Extracted: 10.9 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58009
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 5/00
Analysis Time: 11:56
Sample QC Group: 306

Extraction Date: 5/ 2/00

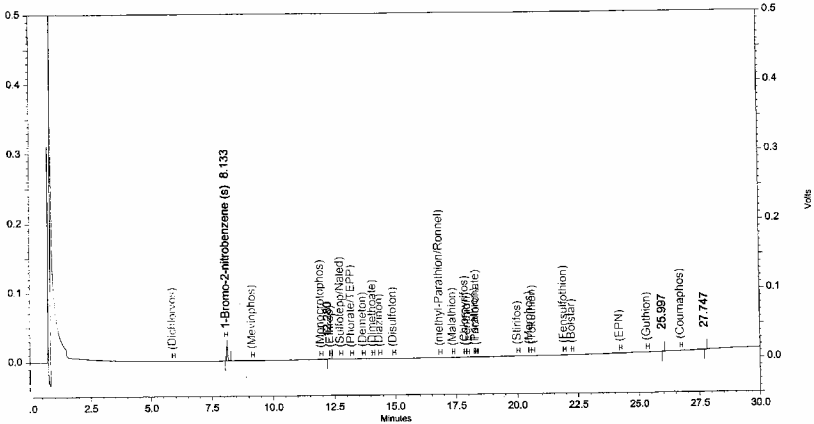
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
86-50-0	Azinphos, methyl	110.	U
35400-43-2	Bolstar	110.	U
2921-88-2	Chlorpyrifos	110.	U
56-72-4	Coumaphos	110.	U
8065-48-3	Demeton-o	110.	U
126-75-0	Demeton-s	110.	U
333-41-5	Diazinon	110.	U
62-73-7	Dichlorvos	218.	U
298-04-4	Disulfoton	218.	U
13194-48-4	Ethoprop	110.	U
115-90-2	Fensulfothion	218.	U
55-38-9	Fenthion	218.	U
150-50-5	Merphos	218.	U
7786-34-7	Mevinphos	218.	U
142-59-6	Naled	1090	U
298-00-0	Methylparathion	218.	U
298-02-2	Phorate	110.	U
299-84-3	Ronnel	218.	U
22248-79-9	Stirofos	110.	U
34643-46-4	Tokuthion	110.	U
327-98-0	Trichloronate	110.	U
60-51-5	Dimethoate	218.	U
2104-64-5	EPN	110.	U
121-75-5	Malathion	110.	U
6923-22-4	Monocrotophos	110.	U
56-38-2	Ethyl parathion	110.	U
3689-24-5	Sulfotep	110.	U
107-49-3	TEPP	218.	U

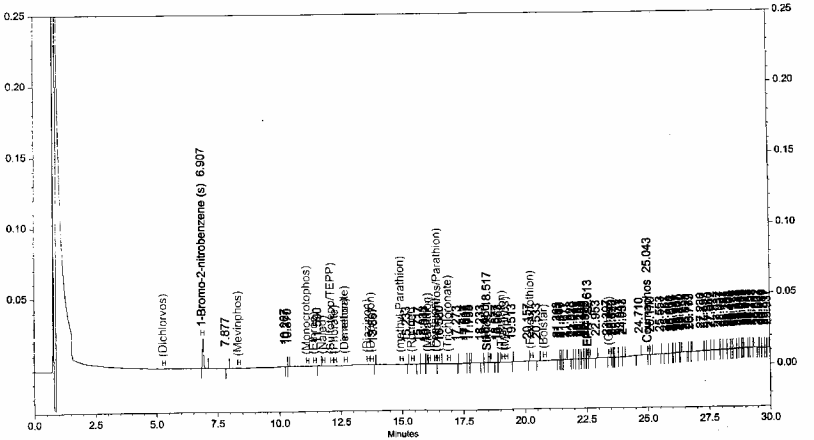
ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report 390

ile Name : C:\EZChrom Elite\Varian5\Public\050400v.034
ia ple Name : 58009
ıc red : 5/5/2000 11:56:53
Methc C:\EZChrom Elite\Methods\OPpest varian.met

:t nnel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)



C annel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)



Specialized Assays, Inc. -- Extractable Organics : Dual NPD Report

File Name : C:\EZChrom Elite\Varian5\Public\050400v.034
Sample Name : 58009
Acquired : 5/5/2000 11:56:53
Method : C:\EZChrom Elite\Methods\OPpest varian.met

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos			0.0000 BDL
1-Bromo-2-nitrobenzene (s)	8.133	93427	6.8018
Mevinphos			0.0000 BDL
Monocrotophos			0.0000 BDL
Ethrop			0.0000 BDL
Sulfotepp/Naled			0.0000 BDL
Phorate/TEPP			0.0000 BDL
Demeton			0.0000 BDL
Dimethoate			0.0000 BDL
Diazinon			0.0000 BDL
Disulfoton			0.0000 BDL
methyl-Parathion/Ronnel			0.0000 BDL
Malathion			0.0000 BDL
Chlorpyrifos			0.0000 BDL
Parathion			0.0000 BDL
Parathion			0.0000 BDL
Trichloronate			0.0000 BDL
Stirifos			0.0000 BDL
Methaphos			0.0000 BDL
Tokuthion			0.0000 BDL
Fensulfothion			0.0000 BDL
Bolstar			0.0000 BDL
EPN			0.0000 BDL
Chlorthion			0.0000 BDL
Coumaphos			0.0000 BDL

Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos			0.0000 BDL
1-Bromo-2-nitrobenzene (s)	6.907	65066	7.8414
Mevinphos			0.0000 BDL
Monocrotophos			0.0000 BDL
Ethrop			0.0000 BDL
Naled			0.0000 BDL
Sulfotepp/TEPP			0.0000 BDL
Phorate			0.0000 BDL
Demeton			0.0000 BDL
Dimethoate			0.0000 BDL
Diazinon			0.0000 BDL
Disulfoton			0.0000 BDL
methyl-Parathion			0.0000 BDL
Ronnel			0.0000 BDL
Malathion			0.0000 BDL
Parathion			0.0000 BDL
Chlorpyrifos/Parathion			0.0000 BDL
Trichloronate			0.0000 BDL
Stirifos	18.517	478	0.0032
Tokuthion			0.0000 BDL
Methaphos			0.0000 BDL
Fensulfothion			0.0000 BDL
Bolstar			0.0000 BDL
EPN	22.613	222	0.0010
Chlorthion			0.0000 BDL
Coumaphos	25.043	158	0.0011

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264722

Matrix: Soil
% Dry Weight: 86.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8141A
Delivery Group: 189955
Instrument: Varian-5
Grams Extracted: 10.6 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58010
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 5/00
Analysis Time: 13:00
Sample QC Group: 306

Extraction Date: 5/ 2/00

FORM I

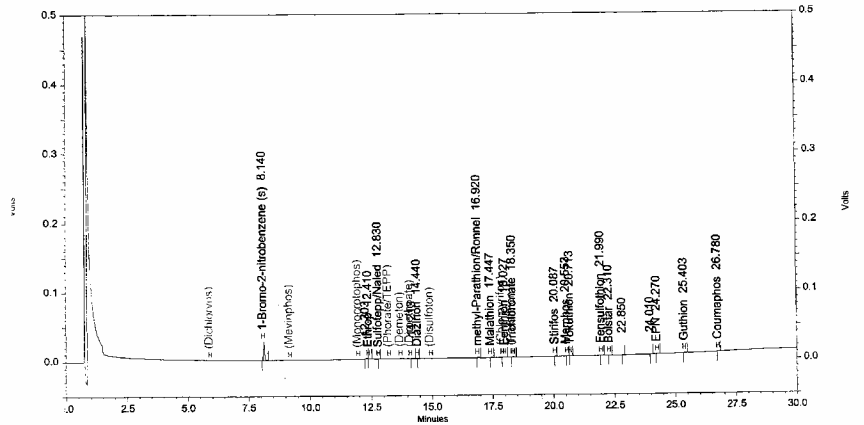
CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
86-50-0	Azinphos, methyl	109.	U
35400-43-2	Bolstar	109.	U
2921-88-2	Chlorpyrifos	109.	U
56-72-4	Coumaphos	109.	U
8065-48-3	Demeton-o	109.	U
126-75-0	Demeton-s	109.	U
333-41-5	Diazinon	109.	U
62-73-7	Dichlorvos	220.	U
298-04-4	Disulfoton	220.	U
13194-48-4	Ethoprop	109.	U
115-90-2	Fensulfothion	220.	U
55-38-9	Fenthion	220.	U
150-50-5	Merphos	220.	U
7786-34-7	Mevinphos	220.	U
142-59-6	Naled	1100	U
298-00-0	Methylparathion	220.	U
298-02-2	Phorate	109.	U
299-84-3	Ronnel	220.	U
22248-79-9	Stirofos	109.	U
34643-46-4	Tokuthion	109.	U
327-98-0	Trichloronate	109.	U
60-51-5	Dimethoate	220.	U
2104-64-5	EPN	109.	U
121-75-5	Malathion	109.	U
6923-22-4	Monocrotophos	109.	U
56-38-2	Ethyl parathion	109.	U
3689-24-5	Sulfotep	109.	U
107-49-3	TEPP	220.	U

COPY 1

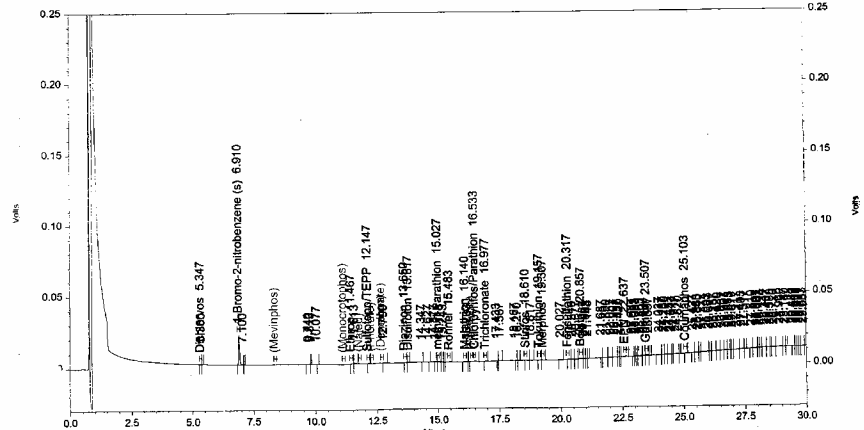
S ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report

File Name : C:\EZChrom Elite\Varian5\Public\050400v.036
Sample Name : 58010
Acquired : 5/5/2000 13:06:42
Method : C:\EZChrom Elite\Methods\OPpest varian.met

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)



Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)



000498

S ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report

394

ile Name : C:\EZChrom Elite\Varian5\Public\050400v.036
Sa ple Name : 58010
\q red : 5/5/2000 13:06:42
Methc C:\EZChrom Elite\Methods\OPpest varian.met

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos			0.0000 BDL
1-Bromo-2-nitrobenzene (s)	8.140	87528	6.3724
Mevinphos			0.0000 BDL
Monocrotophos			0.0000 BDL
Ethrop	12.410	3926	0.0061
Sulfotepp/Naled	12.830	779	0.0013
Phorate/TEPP			0.0000 BDL
Dimeton			0.0000 BDL
Dimethoate			0.0000 BDL
Diazinon	14.440	681	0.0011
Disulfoton			0.0000 BDL
Methyl-Parathion/Ronnel	16.920	4517	0.0081
Malathion	17.447	2243	0.0047
Chlorpyrifos			0.0000 BDL
Fenthion	18.027	3580	0.0055
Fenthion			0.0000 BDL
Trichloronate	18.350	3714	0.0053
Stirifos	20.087	1718	0.0051
Merphos	20.553	1129	0.0024
Tokuthion	20.713	1378	0.0033
Fensulfothion	21.990	2894	0.0093
Bolstar	22.310	1978	0.0039
EPN	24.270	2962	0.0069
Carbophenothion	25.403	3213	0.0093
Coumaphos	26.780	1744	0.0078

Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos	5.347	301	0.0012
1-Bromo-2-nitrobenzene (s)	6.910	64482	7.7710
Mevinphos			0.0000 BDL
Monocrotophos			0.0000 BDL
Ethrop	11.467	1400	0.0044
Naled			0.0000 BDL
Sulfotepp/TEPP	12.147	680	0.0027
Phorate			0.0000 BDL
Dimeton			0.0000 BDL
Dimethoate			0.0000 BDL
Diazinon	13.650	624	0.0024
Disulfoton	13.817	549	0.0017
Methyl-Parathion	15.027	2289	0.0075
Ronnel	15.483	1998	0.0081
Malathion	16.140	2265	0.0106
Fenthion			0.0000 BDL
Chlorpyrifos/Parathion	16.533	5328	0.0189
Trichloronate	16.977	908	0.0036
Stirifos	18.610	1642	0.0112
Tokuthion	19.157	799	0.0036
Merphos	19.307	788	0.0043
Fensulfothion	20.317	1313	0.0106
Bolstar	20.857	4045	0.0173
EPN	22.637	4538	0.0214
Carbophenothion	23.507	3834	0.0208
Coumaphos	25.103	1923	0.0129

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264723

Matrix: Soil
% Dry Weight: 87.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8141A
Delivery Group: 189955
Instrument: Varian-5
Grams Extracted: 10.6 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58011
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 5/00
Analysis Time: 13:41
Sample QC Group: 306

Extraction Date: 5/ 2/00

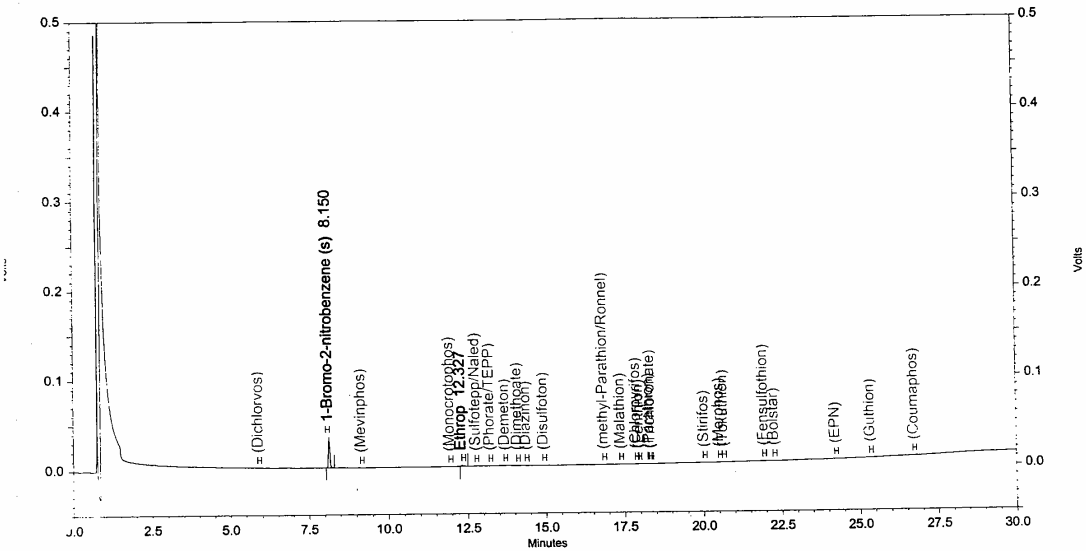
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
86-50-0	Azinphos, methyl	108.	U
35400-43-2	Bolstar	108.	U
2921-88-2	Chlorpyrifos	108.	U
56-72-4	Coumaphos	108.	U
8065-48-3	Demeton-o	108.	U
126-75-0	Demeton-s	108.	U
333-41-5	Diazinon	108.	U
62-73-7	Dichlorvos	217.	U
298-04-4	Disulfoton	217.	U
13194-48-4	Ethoprop	108.	U
115-90-2	Fensulfothion	217.	U
55-38-9	Fenthion	217.	U
150-50-5	Merphos	217.	U
7786-34-7	Mevinphos	217.	U
142-59-6	Naled	1080	U
298-00-0	Methylparathion	217.	U
298-02-2	Phorate	108.	U
299-84-3	Ronnel	217.	U
22248-79-9	Stirofos	108.	U
34643-46-4	Tokuthion	108.	U
327-98-0	Trichloronate	108.	U
60-51-5	Dimethoate	217.	U
2104-64-5	EPN	108.	U
121-75-5	Malathion	108.	U
6923-22-4	Monocrotophos	108.	U
56-38-2	Ethyl parathion	108.	U
3689-24-5	Sulfotep	108.	U
107-49-3	TEPP	217.	U

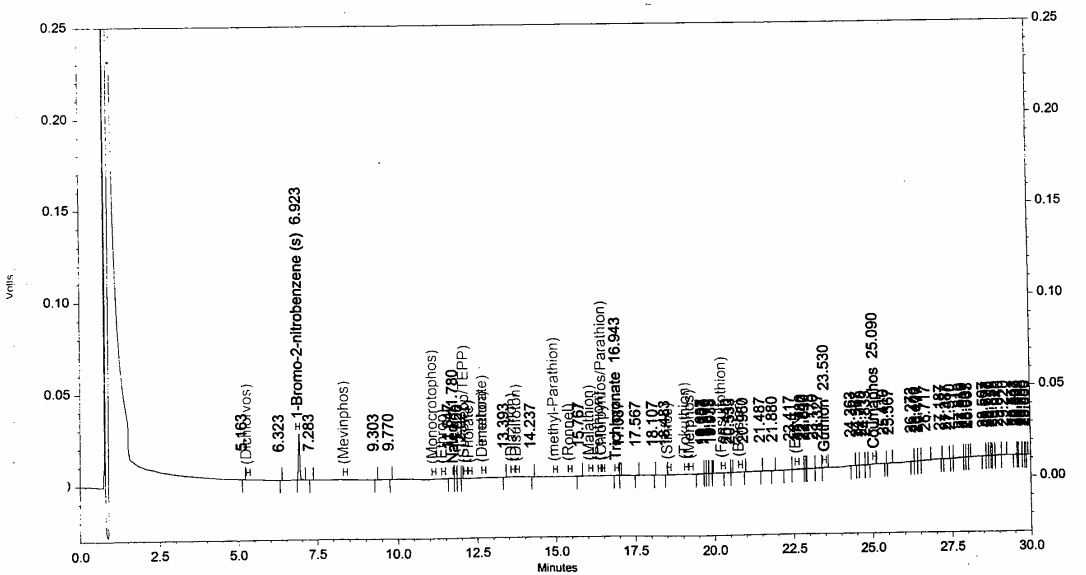
ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report 396

ile Name : C:\EZChrom Elite\Varian5\Public\050400v.037
ple Name : 58011
red : 5/5/2000 13:41:39
Methr C:\EZChrom Elite\Methods\OPpest varian.met

nnel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)



C annel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)



000501

Specialized Assays, Inc. -- Extractable Organics : Dual NPD Report 397

File Name : **C:\EZChrom Elite\Varian5\Public\050400v.037**
Sample Name : **58011**
Acquired : **5/5/2000 13:41:39**
Method : **C:\EZChrom Elite\Methods\OPpest varian.met**

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos			0.0000 BDL
1-Bromo-2-nitrobenzene (s)	8.150	106927	7.7847
Mevinphos			0.0000 BDL
Monocrotophos			0.0000 BDL
Ethrop	12.327	7112	0.0110
Sulfotepp/Naled			0.0000 BDL
Phorate/TEPP			0.0000 BDL
Demeton			0.0000 BDL
Dimethoate			0.0000 BDL
Diazinon			0.0000 BDL
Disulfoton			0.0000 BDL
Methyl-Parathion/Ronnel			0.0000 BDL
Malathion			0.0000 BDL
Chlorpyrifos			0.0000 BDL
Parathion			0.0000 BDL
Trichloronate			0.0000 BDL
Stirifos			0.0000 BDL
Merphos			0.0000 BDL
Tokuthion			0.0000 BDL
Ensulfothion			0.0000 BDL
Bolstar			0.0000 BDL
EPN			0.0000 BDL
Guthion			0.0000 BDL
Coumaphos			0.0000 BDL

Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos			0.0000 BDL
1-Bromo-2-nitrobenzene (s)	6.923	77387	9.3263
Mevinphos			0.0000 BDL
Monocrotophos			0.0000 BDL
Ethrop			0.0000 BDL
Naled	11.780	534	0.0089
Sulfotepp/TEPP			0.0000 BDL
Phorate			0.0000 BDL
Demeton			0.0000 BDL
Dimethoate			0.0000 BDL
Diazinon			0.0000 BDL
Disulfoton			0.0000 BDL
Methyl-Parathion			0.0000 BDL
Ronnel			0.0000 BDL
Malathion			0.0000 BDL
Parathion			0.0000 BDL
Chlorpyrifos/Parathion			0.0000 BDL
Trichloronate	16.943	555	0.0022
Stirifos			0.0000 BDL
Tokuthion			0.0000 BDL
Merphos			0.0000 BDL
Ensulfothion			0.0000 BDL
Bolstar			0.0000 BDL
EPN			0.0000 BDL
Guthion	23.530	1435	0.0078
Coumaphos	25.090	1195	0.0080

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264724

Matrix: Soil
% Dry Weight: 81.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8141A
Delivery Group: 189955
Instrument: Varian-5
Grams Extracted: 10.2 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58012
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 5/00
Analysis Time: 14:16
Sample QC Group: 306

Extraction Date: 5/ 2/00

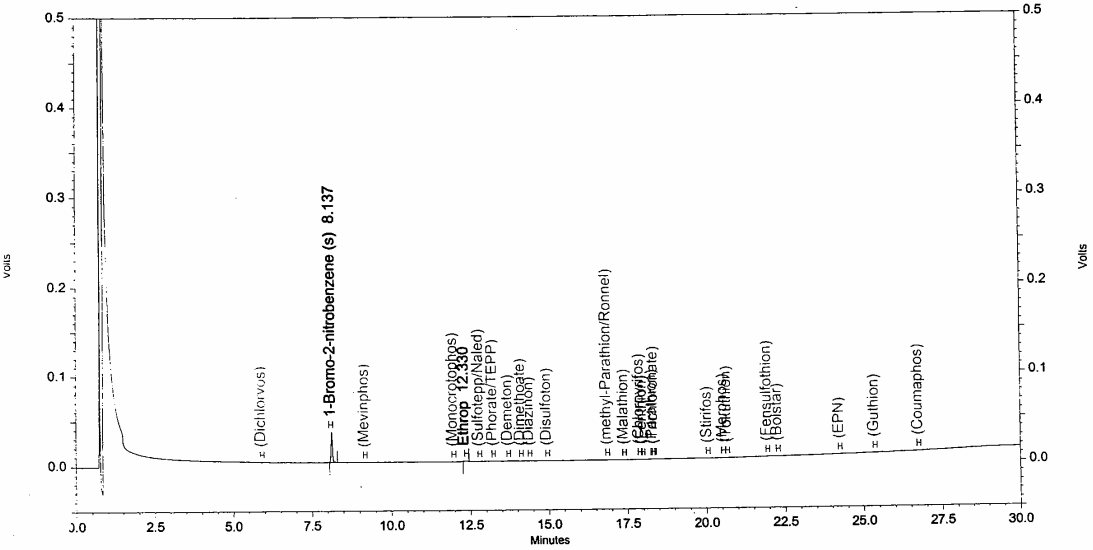
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
86-50-0	Azinphos, methyl	121.	U
35400-43-2	Bolstar	121.	U
2921-88-2	Chlorpyrifos	121.	U
56-72-4	Coumaphos	121.	U
8065-48-3	Demeton-o	121.	U
126-75-0	Demeton-s	121.	U
333-41-5	Diazinon	121.	U
62-73-7	Dichlorvos	242.	U
298-04-4	Disulfoton	242.	U
13194-48-4	Ethoprop	121.	U
115-90-2	Fensulfothion	242.	U
55-38-9	Fenthion	242.	U
150-50-5	Merphos	242.	U
7786-34-7	Mevinphos	242.	U
142-59-6	Naled	1210	U
298-00-0	Methylparathion	242.	U
298-02-2	Phorate	121.	U
299-84-3	Ronnel	242.	U
22248-79-9	Stirofos	121.	U
34643-46-4	Tokuthion	121.	U
327-98-0	Trichloronate	121.	U
60-51-5	Dimethoate	242.	U
2104-64-5	EPN	121.	U
121-75-5	Malathion	121.	U
6923-22-4	Monocrotophos	121.	U
56-38-2	Ethyl parathion	121.	U
3689-24-5	Sulfotep	121.	U
107-49-3	TEPP	242.	U

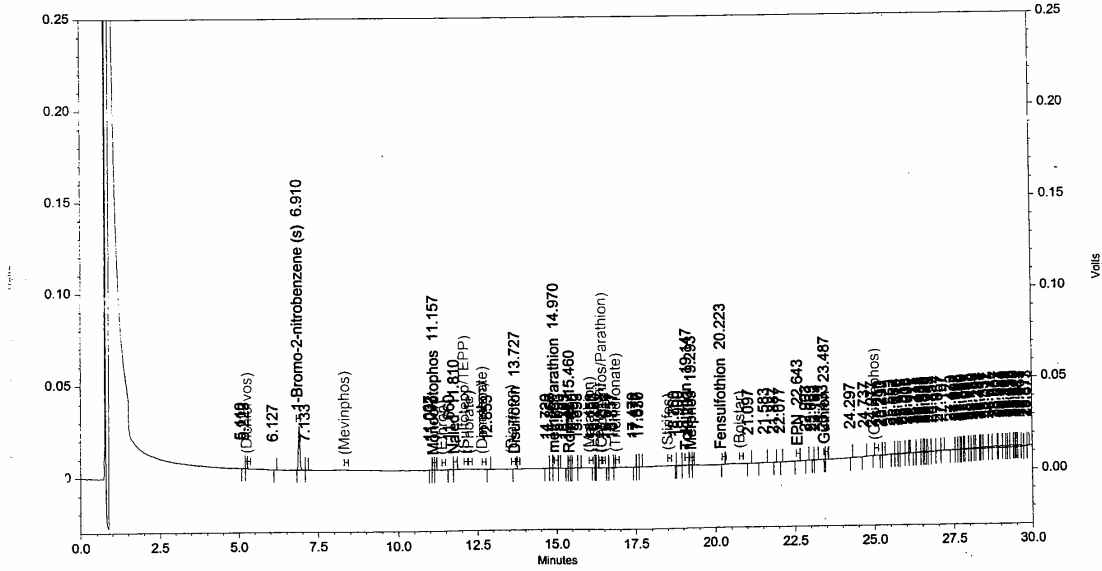
S ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report

File Name : **C:\EZChrom Elite\Varian5\Public\050400v.038**
Sample Name : **58012**
Acquired : **5/5/2000 14:16:30**
Method : **C:\EZChrom Elite\Methods\OPpest varian.met**

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)



Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)



S ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report 400

File Name : **C:\EZChrom Elite\Varian5\Public\050400v.038**
Sample Name : **58012**
Acquired : **5/5/2000 14:16:30**
Method : **C:\EZChrom Elite\Methods\OPpest varian.met**

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos			0.0000 BDL
1-Bromo-2-nitrobenzene (s)	8.137	102997	7.4986
Mevinphos			0.0000 BDL
Monocrotophos			0.0000 BDL
Ethrop	12.330	3869	0.0060
Sulfotepp/Naled			0.0000 BDL
Phorate/TEPP			0.0000 BDL
Demeton			0.0000 BDL
Dimethoate			0.0000 BDL
Diazinon			0.0000 BDL
Disulfoton			0.0000 BDL
Methyl-Parathion/Ronnel			0.0000 BDL
Malathion			0.0000 BDL
Chlorpyrifos			0.0000 BDL
Enthion			0.0000 BDL
Parathion			0.0000 BDL
Trichloronate			0.0000 BDL
Stirifos			0.0000 BDL
Merphos			0.0000 BDL
Tokuthion			0.0000 BDL
Ensulfothion			0.0000 BDL
Bolstar			0.0000 BDL
EPN			0.0000 BDL
Guthion			0.0000 BDL
Coumaphos			0.0000 BDL

Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos			0.0000 BDL
1-Bromo-2-nitrobenzene (s)	6.910	76487	9.2178
Mevinphos			0.0000 BDL
Monocrotophos	11.157	181	0.0037
Ethrop			0.0000 BDL
Naled	11.810	583	0.0097
Sulfotepp/TEPP			0.0000 BDL
Phorate			0.0000 BDL
Demeton			0.0000 BDL
Dimethoate			0.0000 BDL
Diazinon			0.0000 BDL
Disulfoton	13.727	476	0.0015
Methyl-Parathion	14.970	1946	0.0063
Ronnel	15.460	234	0.0010
Malathion			0.0000 BDL
Enthion			0.0000 BDL
Chlorpyrifos/Parathion			0.0000 BDL
Trichloronate			0.0000 BDL
Stirifos			0.0000 BDL
Tokuthion	19.147	1786	0.0080
Merphos	19.293	322	0.0018
Ensulfothion	20.223	489	0.0039
Bolstar			0.0000 BDL
EPN	22.643	719	0.0034
Guthion	23.487	343	0.0019
Coumaphos			0.0000 BDL

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264725

Matrix: Soil
% Dry Weight: 57.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8141A
Delivery Group: 189955
Instrument: Varian-5
Grams Extracted: 10.1 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58013
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 5/00
Analysis Time: 14:51
Sample GC Group: 306

Extraction Date: 5/ 2/00

FORM I

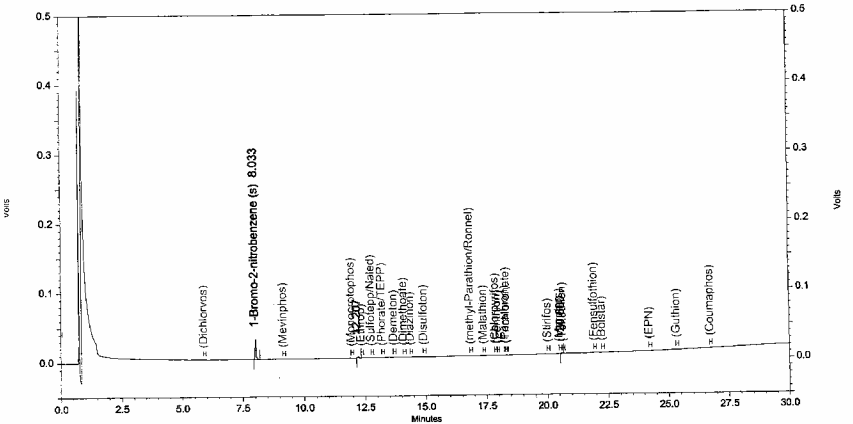
CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
86-50-0	Azinphos, methyl	174.	U
35400-43-2	Bolstar	174.	U
2921-88-2	Chlorpyrifos	174.	U
56-72-4	Coumaphos	174.	U
8065-48-3	Demeton-o	174.	U
126-75-0	Demeton-s	174.	U
333-41-5	Diazinon	174.	U
62-73-7	Dichlorvos	347.	U
298-04-4	Disulfoton	347.	U
13194-48-4	Ethoprop	174.	U
115-90-2	Fensulfothion	347.	U
55-38-9	Fenthion	347.	U
150-50-5	Merphos	347.	U
7786-34-7	Mevinphos	347.	U
142-59-6	Naled	1740	U
298-00-0	Methylparathion	347.	U
298-02-2	Phorate	174.	U
299-84-3	Ronnel	347.	U
22248-79-9	Stirofos	174.	U
34643-46-4	Tokuthion	174.	U
327-98-0	Trichloronate	174.	U
60-51-5	Dimethoate	347.	U
2104-64-5	EPN	174.	U
121-75-5	Malathion	174.	U
6923-22-4	Monocrotophos	174.	U
56-38-2	Ethyl parathion	174.	U
3689-24-5	Sulfotep	174.	U
107-49-3	TEPP	347.	U

COPY 1

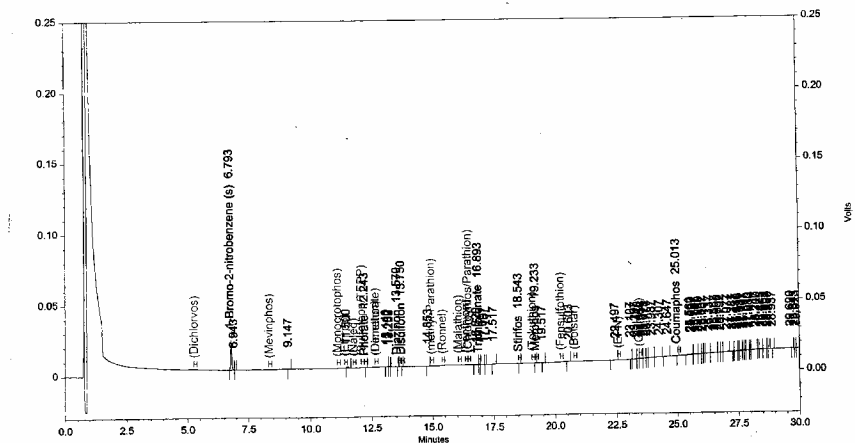
S ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report

Ile Name : C:\EZChrom Elite\Varian5\Public\050400v.039
3 ple Name : 58013
A ired : 5/5/2000 14:51:29
Meth : C:\EZChrom Elite\Methods\OPpest varian doc.met

C nnel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)



C nnel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)



S ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report

File Name : **C:\EZChrom Elite\Varian5\Public\050400v.039**
Sample Name : **58013**
Acquired : **5/5/2000 14:51:29**
Method : **C:\EZChrom Elite\Methods\OPpest varian doc.met**

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos			0.0000 BDL
1-Bromo-2-nitrobenzene (s)	8.033	89855	5.5434
Mevinphos			0.0000 BDL
Monocrotophos			0.0000 BDL
Ethrop			0.0000 BDL
Sulfotepp/Naled			0.0000 BDL
Phorate/TEPP			0.0000 BDL
Demeton			0.0000 BDL
Dimethoate			0.0000 BDL
Diazinon			0.0000 BDL
Disulfoton			0.0000 BDL
Methyl-Parathion/Ronnel			0.0000 BDL
Malathion			0.0000 BDL
Chlorpyrifos			0.0000 BDL
Menthion			0.0000 BDL
Parathion			0.0000 BDL
Trichloronate			0.0000 BDL
Stirifos			0.0000 BDL
Merphos			0.0000 BDL
Tokuthion			0.0000 BDL
Tensulfothion			0.0000 BDL
Bolstar			0.0000 BDL
EPN			0.0000 BDL
Guthion			0.0000 BDL
Coumaphos			0.0000 BDL

Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos			0.0000 BDL
1-Bromo-2-nitrobenzene (s)	6.793	64564	6.1310
Mevinphos			0.0000 BDL
Monocrotophos			0.0000 BDL
Ethrop			0.0000 BDL
Naled			0.0000 BDL
Sulfotepp/TEPP			0.0000 BDL
Phorate	12.243	272	0.0006
Demeton			0.0000 BDL
Dimethoate			0.0000 BDL
Diazinon	13.570	179	0.0006
Disulfoton	13.750	116	0.0003
Methyl-Parathion			0.0000 BDL
Ronnel			0.0000 BDL
Malathion			0.0000 BDL
Menthion			0.0000 BDL
Chlorpyrifos/Parathion			0.0000 BDL
Trichloronate	16.893	337	0.0012
Stirifos	18.543	145	0.0547
Tokuthion			0.0000 BDL
Merphos	19.233	266	0.0013
Tensulfothion			0.0000 BDL
Bolstar			0.0000 BDL
EPN			0.0000 BDL
Guthion			0.0000 BDL
Coumaphos	25.013	348	0.0018

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264726

Matrix: Soil
% Dry Weight: 72.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8141A
Delivery Group: 189755
Instrument: Varian-5
Grams Extracted: 10.6 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58073
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 5/00
Analysis Time: 16:34
Sample GC Group: 306

Extraction Date: 5/ 2/00

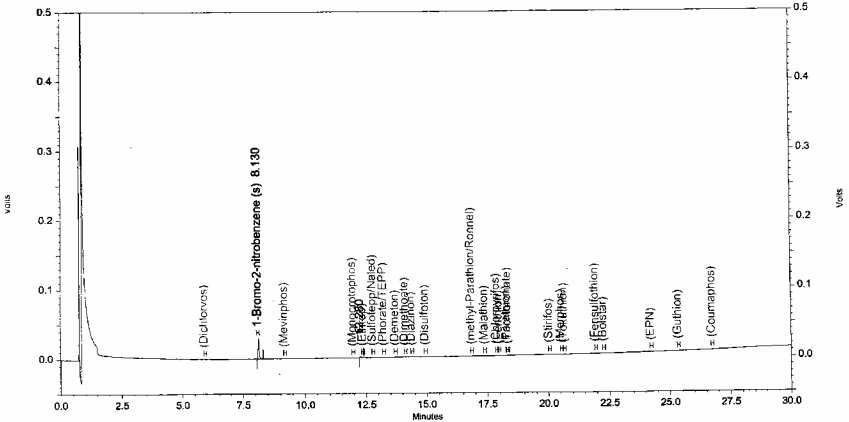
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
86-50-0	Azinphos, methyl	131.	U
35400-43-2	Bolstar	131.	U
2921-88-2	Chlorpyrifos	131.	U
56-72-4	Coumaphos	131.	U
8065-48-3	Demeton-o	131.	U
126-75-0	Demeton-s	131.	U
333-41-5	Diazinon	131.	U
62-73-7	Dichlorvos	262.	U
298-04-4	Disulfoton	262.	U
13194-48-4	Ethoprop	131.	U
115-90-2	Fensulfothion	262.	U
55-38-9	Fenthion	262.	U
150-50-5	Merphos	262.	U
7786-34-7	Mevinphos	262.	U
142-59-6	Naled	1310	U
298-00-0	Methylparathion	262.	U
298-02-2	Phorate	131.	U
299-84-3	Ronnel	262.	U
22248-79-9	Stirofos	131.	U
34643-46-4	Tokuthion	131.	U
327-98-0	Trichloronate	131.	U
60-51-5	Dimethoate	262.	U
2104-64-5	EPN	131.	U
121-75-5	Malathion	131.	U
6923-22-4	Monocrotophos	131.	U
56-38-2	Ethyl parathion	131.	U
3689-24-5	Sulfotep	131.	U
107-49-3	TEPP	262.	U

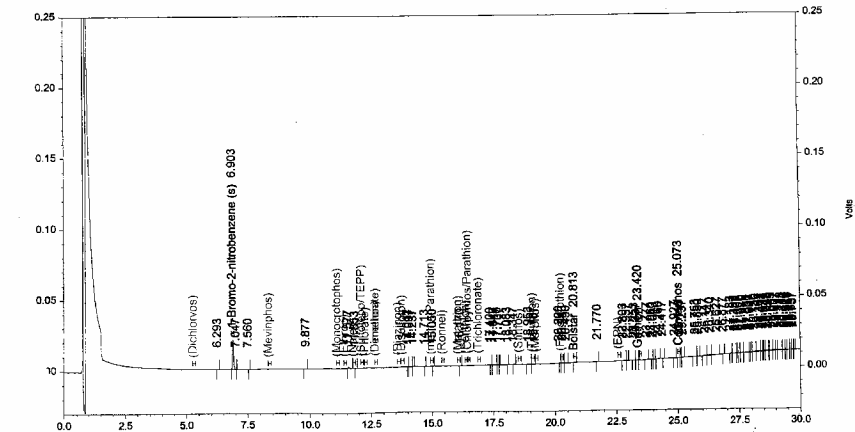
Specialized Assays, Inc. -- Extractable Organics : Dual NPD Report

File Name : C:\EZChrom Elite\Varian5\Public\050400v.040
Sample Name : 58073
Acquired : 5/5/2000 16:34:32
Method : C:\EZChrom Elite\Methods\OPpest varian doc.met

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)



Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)



Specialized Assays, Inc. -- Extractable Organics : Dual NPD Report

File Name : C:\EZChrom Elite\Varian5\Public\050400v.040
Sample Name : 58073
Acquired : 5/5/2000 16:34:32
Method : C:\EZChrom Elite\Methods\OPpest varian doc.met

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos			0.0000 BDL
1-Bromo-2-nitrobenzene (s)	8.130	92171	5.6863
Mevinphos			0.0000 BDL
Monocrotophos			0.0000 BDL
Ethrop			0.0000 BDL
Sulfotepp/Naled			0.0000 BDL
Phorate/TEPP			0.0000 BDL
Demeton			0.0000 BDL
Dimethoate			0.0000 BDL
Diazinon			0.0000 BDL
Disulfoton			0.0000 BDL
Methyl-Parathion/Ronnel			0.0000 BDL
Malathion			0.0000 BDL
Chlorpyrifos			0.0000 BDL
Fenthion			0.0000 BDL
Parathion			0.0000 BDL
Trichloronate			0.0000 BDL
Stirifos			0.0000 BDL
Merphos			0.0000 BDL
Tokuthion			0.0000 BDL
Fensulfothion			0.0000 BDL
Bolstar			0.0000 BDL
EPN			0.0000 BDL
Guthion			0.0000 BDL
Coumaphos			0.0000 BDL

Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos			0.0000 BDL
1-Bromo-2-nitrobenzene (s)	6.903	63257	6.0069
Mevinphos			0.0000 BDL
Monocrotophos			0.0000 BDL
Ethrop			0.0000 BDL
Naled			0.0000 BDL
Sulfotepp/TEPP			0.0000 BDL
Phorate			0.0000 BDL
Demeton			0.0000 BDL
Dimethoate			0.0000 BDL
Diazinon			0.0000 BDL
Disulfoton			0.0000 BDL
Methyl-Parathion			0.0000 BDL
Ronnel			0.0000 BDL
Malathion			0.0000 BDL
Fenthion			0.0000 BDL
Chlorpyrifos/Parathion			0.0000 BDL
Trichloronate			0.0000 BDL
Stirifos			0.0000 BDL
Tokuthion			0.0000 BDL
Merphos			0.0000 BDL
Fensulfothion			0.0000 BDL
Bolstar	20.813	573	0.0023
EPN			0.0000 BDL
Guthion	23.420	368	0.0604
Coumaphos	25.073	906	0.0048

6D

ORGANOPHOSPHORUS PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name : Specialized Assays
Lab Code : SASSAYS Case No : 189955
Instrument ID : Varian 5
GC Column : DB - XLB ID : 30 m x 0.45 mm

Date(s) Analyzed : 5/4/00 5/4/00

Compound	RT of STANDARDS (ug/L)					MEAN	RT WINDOW(MIN)	
	100	200	500	700	1000	RT	FROM	TO
Dichlorvos	5.95	5.95	5.94	5.95	5.94	5.95	5.90	6.00
Mevinphos	9.24	9.22	9.21	9.23	9.20	9.22	9.17	9.27
Monocrotophos	12.00	11.99	11.99	12.01	12.00	12.00	11.95	12.05
Ethrop	12.41	12.40	12.39	12.41	12.40	12.40	12.35	12.45
Naled	12.82	12.82	12.81	12.83	12.82	12.82	12.77	12.87
Sulfotepp	12.82	12.82	12.81	12.83	12.82	12.82	12.77	12.87
TEPP	13.26	13.26	13.25	13.27	13.26	13.26	13.19	13.33
Phorate	13.26	13.26	13.25	13.27	13.26	13.26	13.19	13.33
Demeton	13.77	13.76	13.74	13.75	13.74	13.75	13.68	13.82
Dimethoate	14.19	14.18	14.15	14.17	14.14	14.17	14.10	14.24
Diazinon	14.43	14.44	14.42	14.44	14.43	14.43	14.36	14.50
Disulfoton	14.99	14.99	14.99	15.00	14.99	14.99	14.92	15.06
Methyl-parathion	16.90	16.90	16.89	16.92	16.89	16.90	16.83	16.97
Ronnel	16.90	16.90	16.89	16.92	16.89	16.90	16.83	16.97
Malathion	17.43	17.44	17.43	17.45	17.42	17.43	17.36	17.50
Chlorpyrifos	17.93	17.93	17.92	17.94	17.92	17.93	17.86	18.00
Fenthion	18.01	18.03	18.01	18.04	18.00	18.02	17.95	18.09
Parathion	18.34	18.35	18.33	18.36	18.32	18.34	18.27	18.41
Trichloronate	18.37	18.38	18.38	18.39	18.36	18.38	18.33	18.43
Stirifos	20.09	20.09	20.07	20.09	20.05	20.08	20.03	20.13
Tokuthion	20.55	20.57	20.56	20.57	20.53	20.55	20.50	20.60
Merphos	20.70	20.72	20.70	20.71	20.68	20.70	20.60	20.80
Fensulfothion	22.00	22.00	21.98	21.99	21.95	21.98	21.88	22.08
Bolstar	22.30	22.32	22.31	22.32	22.28	22.30	22.20	22.40
EPN	24.25	22.32	22.31	22.32	22.28	22.69	22.59	22.79
Guthion	25.39	25.41	25.41	25.40	25.39	25.40	25.30	25.50
Coumaphos	26.75	26.77	26.79	26.80	26.77	26.78	26.68	26.88
1Bromo2nitrobenzen	8.13	8.12	8.12	8.14	8.13	8.13	8.03	8.23

6D

ORGANOPHOSPHORUS PESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name : Specialized Assays
Lab Code : SASSAYS
Case No : 189955
Instrument ID : Varian 5
GC Column : DB - 5
ID : 30 m x 0.45 mm

Date(s) Analyzed : 5/4/00 5/4/00

Compound	RT of STANDARDS (ug/L)					MEAN	RT WINDOW(MIN)	
	100	200	500	700	1000	RT	FROM	TO
Dichlorvos	5.34	5.34	5.33	5.35	5.33	5.34	5.29	5.39
Mevinphos	8.43	8.41	8.39	8.40	8.39	8.40	8.35	8.45
Monocrotophos	11.16	11.15	11.15	11.17	11.15	11.16	11.11	11.21
Ethrop	11.46	11.45	11.45	11.46	11.45	11.45	11.40	11.50
Naled	11.81	11.81	11.80	11.82	11.80	11.81	11.76	11.86
Sulfotepp	12.15	12.14	12.14	12.16	12.14	12.15	12.10	12.20
TEPP	12.15	12.14	12.14	12.16	12.14	12.15	12.08	12.22
Phorate	12.29	12.29	12.28	12.30	12.29	12.29	12.22	12.36
Demeton	12.73	12.71	12.70	12.71	12.69	12.71	12.64	12.78
Dimethoate	12.81	12.77	12.72	12.74	12.72	12.75	12.68	12.82
Diazinon	13.65	13.65	13.64	13.66	13.65	13.65	13.58	13.72
Disulfoton	13.80	13.80	13.79	13.81	13.80	13.80	13.73	13.87
Methyl-parathion	15.02	15.02	15.00	15.02	15.01	15.01	14.94	15.08
Ronnel	15.47	15.47	15.46	15.48	15.46	15.47	15.40	15.54
Malathion	16.13	16.13	16.12	16.13	16.11	16.12	16.05	16.19
Fenthion	16.43	16.47	16.42	16.43	16.42	16.43	16.36	16.50
Chlorpyrifos	16.51	16.52	16.50	16.52	16.50	16.51	16.44	16.58
Parathion	16.51	16.52	16.50	16.52	16.50	16.51	16.44	16.58
Trichloronate	16.94	16.95	16.94	16.96	16.94	16.94	16.89	16.99
Stirifos	18.61	18.61	18.59	18.60	18.58	18.60	18.55	18.65
Tokuthion	19.13	19.15	19.13	19.15	19.12	19.14	19.09	19.19
Merphos	19.29	19.30	19.28	19.29	19.26	19.29	19.19	19.39
Fensulfothion	20.36	20.37	20.31	20.31	20.28	20.32	20.22	20.42
Bolstar	20.84	20.37	20.31	20.31	20.28	20.42	20.32	20.52
EPN	22.62	22.65	22.64	22.64	22.62	22.63	22.53	22.73
Guthion	23.49	23.52	23.51	23.50	23.49	23.50	23.40	23.60
Coumaphos	25.08	25.11	25.10	25.11	25.11	25.10	25.00	25.20
1Bromo2nitrobenzen	6.90	6.90	6.90	6.92	6.90	6.90	6.80	7.00

6E

OPPESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name : Specialized Assays
Lab Code : SASSAYS
Case No : 189955
Instrument ID : Varian 5
GC Column : DB - XLB
ID : 30 m x 0.45 mm

Date(s) Analyzed : 5/4/00 5/4/00

COMPOUND	CALIBRATION FACTORS					MEAN	% RSD
	100	200	500	700	1000		
Dichlorvos	2.140E-6	2.250E-6	1.986E-6	1.957E-6	1.987E-6	2.064E-6	6.12
Mevinphos	2.772E-6	2.678E-6	2.853E-6	2.769E-6	2.769E-6	2.768E-6	2.24
Monocrotophos	1.202E-5	1.135E-5	1.026E-5	9.653E-6	9.809E-6	1.062E-5	9.67
Ethrop	1.619E-6	1.703E-6	1.467E-6	1.448E-6	1.487E-6	1.545E-6	7.17
Naled	1.573E-6	1.727E-6	1.549E-6	1.558E-6	1.619E-6	1.605E-6	4.57
Sulfotepp	1.573E-6	1.727E-6	1.549E-6	1.558E-6	1.619E-6	1.605E-6	4.57
TEPP	3.053E-6	3.399E-6	2.666E-6	2.430E-6	2.502E-6	2.810E-6	14.53
Phorate	3.053E-6	3.399E-6	2.666E-6	2.430E-6	2.502E-6	2.810E-6	14.53
Demeton	3.194E-6	3.141E-6	2.212E-6	2.230E-6	2.161E-6	2.588E-6	20.49
Dimethoate	3.458E-6	3.339E-6	2.193E-6	2.169E-6	2.000E-6	2.632E-6	26.79
Diazinon	1.535E-6	1.697E-6	1.499E-6	1.577E-6	1.558E-6	1.573E-6	4.76
Disulfoton	1.558E-6	1.686E-6	1.565E-6	1.608E-6	1.618E-6	1.607E-6	3.19
Methyl-parathion	1.749E-6	1.937E-6	1.715E-6	1.764E-6	1.808E-6	1.795E-6	4.83
Ronnel	1.749E-6	1.937E-6	1.715E-6	1.764E-6	1.808E-6	1.795E-6	4.83
Malathion	2.204E-6	2.364E-6	1.971E-6	1.982E-6	2.002E-6	2.105E-6	8.26
Chlorpyrifos	2.455E-6	2.583E-6	2.324E-6	2.313E-6	2.366E-6	2.408E-6	4.67
Fenthion	1.449E-6	1.604E-6	1.482E-6	1.545E-6	1.575E-6	1.531E-6	4.21
Parathion	2.734E-6	2.200E-6	1.983E-6	2.117E-6	2.085E-6	2.224E-6	13.29
Trichloronate	1.292E-6	1.594E-6	1.429E-6	1.406E-6	1.480E-6	1.440E-6	7.66
Stirifos	3.215E-6	3.414E-6	2.777E-6	2.777E-6	2.721E-6	2.981E-6	10.52
Tokuthion	2.059E-6	2.293E-6	2.095E-6	2.174E-6	2.181E-6	2.161E-6	4.19
Merphos	2.505E-6	2.609E-6	2.285E-6	2.336E-6	2.366E-6	2.420E-6	5.52
Fensulfothion	3.423E-6	3.826E-6	2.922E-6	2.969E-6	2.968E-6	3.222E-6	12.26
Bolstar	1.976E-6	2.156E-6	1.889E-6	1.964E-6	1.985E-6	1.994E-6	4.93
EPN	2.340E-6	2.564E-6	2.196E-6	2.258E-6	2.325E-6	2.337E-6	5.97
Guthion	3.197E-6	3.485E-6	2.544E-6	2.588E-6	2.614E-6	2.885E-6	14.85
Coumaphos	4.662E-6	5.132E-6	4.041E-6	4.137E-6	4.342E-6	4.463E-6	9.93
1Bromo2nitrobenzen	7.636E-5	5.862E-5	2.991E-5	4.107E-5	7.221E-5	5.564E-5	35.80

% RSD must be less than or equal 20.0 % for all compounds or the average of all % RSDs must be less than or equal to 20.0 %.

6E

OPPESTICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name : Specialized Assays
Lab Code : SASSAYS
Case No : 189955
Instrument ID : Varian 5
GC Column : DB - 5
ID : 30 m x 0.45 mm

Date(s) Analyzed : 5/4/00 5/4/00

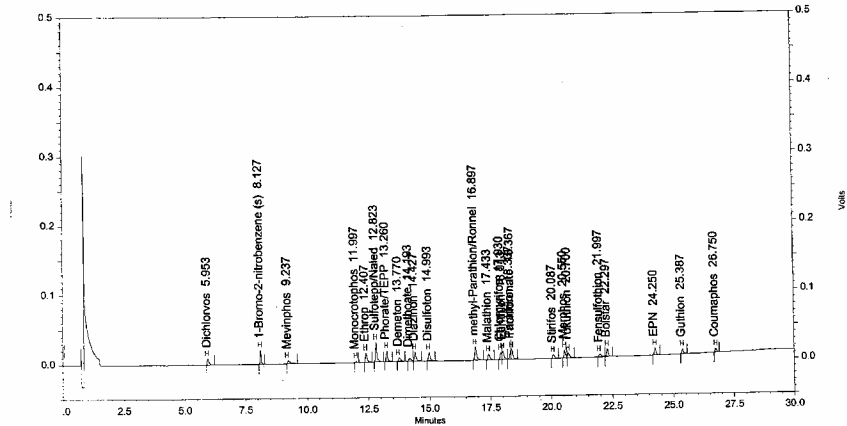
COMPOUND	CALIBRATION FACTORS					MEAN	% RSD
	100	200	500	700	1000		
Dichlorvos	3.793E-6	4.399E-6	4.048E-6	3.891E-6	3.967E-6	4.020E-6	5.78
Mevinphos	5.800E-6	5.451E-6	4.005E-6	3.735E-6	3.851E-6	4.569E-6	21.40
Monocrotophos	1.891E-5	2.142E-5	1.975E-5	2.003E-5	2.113E-5	2.025E-5	5.08
Ethrop	3.100E-6	3.293E-6	2.983E-6	3.047E-6	3.161E-6	3.117E-6	3.80
Naled	1.925E-5	1.916E-5	1.482E-5	1.489E-5	1.510E-5	1.664E-5	14.04
Sulfotepp	3.737E-6	4.421E-6	4.017E-6	3.957E-6	3.980E-6	4.022E-6	6.18
TEPP	3.737E-6	4.421E-6	4.017E-6	3.957E-6	3.980E-6	4.022E-6	6.18
Phorate	2.578E-6	3.180E-6	2.586E-6	2.713E-6	2.839E-6	2.779E-6	8.93
Demeton	7.513E-6	1.042E-5	6.720E-6	6.402E-6	7.148E-6	7.640E-6	21.05
Dimethoate	3.624E-6	4.303E-6	3.234E-6	3.470E-6	2.996E-6	3.525E-6	14.06
Diazinon	3.503E-6	4.198E-6	3.789E-6	3.833E-6	4.071E-6	3.879E-6	6.94
Disulfoton	2.706E-6	3.338E-6	3.102E-6	3.033E-6	3.303E-6	3.096E-6	8.20
Methyl-parathion	3.287E-6	3.361E-6	3.130E-6	3.208E-6	3.321E-6	3.262E-6	2.84
Ronnel	4.093E-6	4.385E-6	3.813E-6	3.929E-6	4.146E-6	4.073E-6	5.37
Malathion	4.560E-6	5.264E-6	4.245E-6	4.626E-6	4.722E-6	4.683E-6	7.91
Fenthion	4.509E-6	4.275E-6	4.322E-6	4.544E-6	4.670E-6	4.464E-6	3.66
Chlorpyrifos	3.321E-6	3.671E-6	3.368E-6	3.645E-6	3.753E-6	3.552E-6	5.45
Parathion	3.321E-6	3.671E-6	3.368E-6	3.645E-6	3.753E-6	3.552E-6	5.45
Trichloronate	3.755E-6	3.985E-6	3.803E-6	4.260E-6	4.092E-6	3.979E-6	5.23
Stirifos	7.038E-6	8.361E-6	6.358E-6	6.336E-6	5.878E-6	6.794E-6	14.26
Tokuthion	4.230E-6	4.644E-6	4.364E-6	4.699E-6	4.452E-6	4.478E-6	4.34
Merphos	5.344E-6	5.977E-6	5.153E-6	5.628E-6	5.201E-6	5.461E-6	6.28
Fensulfothion	7.774E-6	1.008E-5	7.973E-6	7.173E-6	7.275E-6	8.056E-6	14.67
Bolstar	3.356E-6	4.914E-6	4.195E-6	4.400E-6	4.572E-6	4.287E-6	13.61
EPN	4.616E-6	5.193E-6	4.555E-6	4.529E-6	4.664E-6	4.711E-6	5.82
Guthion	5.897E-6	6.285E-6	4.855E-6	4.918E-6	5.124E-6	5.416E-6	11.80
Coumaphos	6.830E-6	7.646E-6	6.205E-6	6.407E-6	6.485E-6	6.715E-6	8.45
1Bromo2nitrobenzen	1.247E-4	9.138E-5	4.932E-5	6.276E-5	1.142E-4	8.847E-5	36.53

% RSD must be less than or equal 20.0 % for all compounds or the average of all % RSDs must be less than or equal to 20.0 %.

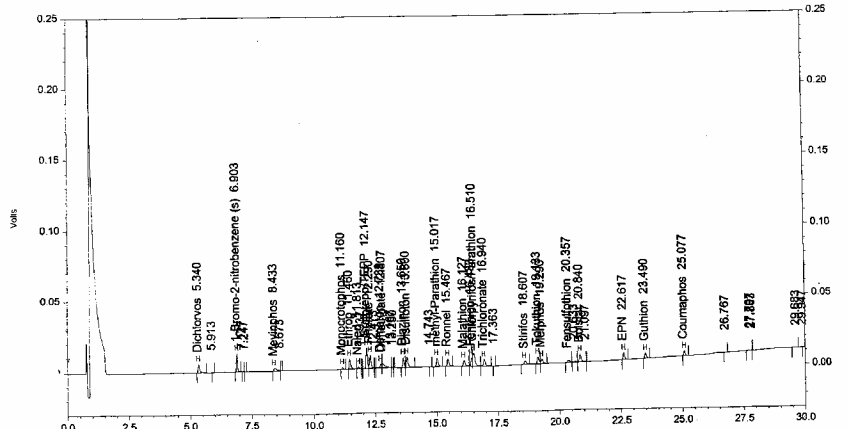
5| ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report

ile Name : C:\EZChrom Elite\Varian5\Public\050400v.002
ample Name : op 0.1 (4-w-mc-195-3)
q ed : 5/4/2000 17:21:03
Method : C:\EZChrom Elite\Methods\OPpest varian.met

:h nnel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)



C annel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)



;p ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report

412

ile Name : C:\EZChrom Elite\Varian5\Public\050400v.002
amnle Name : op 0.1 (4-w-mc-195-3)
qu ed : 5/4/2000 17:21:03
letnod : C:\EZChrom Elite\Methods\OPpest varian.met

ha nel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)

Na e	Retention Time	Area	ESTD concentration
Dichlorvos	5.953	46734	0.0965
1-Bromo-2-nitrobenzene (s)	8.127	65482	4.7673
Me nphos	9.237	36081	0.0999
Mc ocrotophos	11.997	8319	0.0883
Ethrop	12.407	61785	0.0954
Sulfotepp/Naled	12.823	127121	0.2041
Ph ate/TEPP	13.260	65508	0.1841
De eton	13.770	31309	0.1134
Dimethoate	14.193	28917	0.1240
Diazinon	14.427	65132	0.1025
Di foton	14.993	64170	0.1031
m yl-Parathion/Ronnel	16.897	114377	0.2053
Malathion	17.433	45364	0.0955
Chlorpyrifos	17.930	40740	0.0981
Fe thion	18.013	69019	0.1057
Pa thion	18.337	36577	0.0813
Tr loronate	18.367	77422	0.1115
Stirifos	20.087	31100	0.0927
Merphos	20.550	48571	0.1049
To ithion	20.700	39922	0.0966
Fe sulfothion	21.997	29218	0.0941
Bolstar	22.297	50609	0.1009
EPN	24.250	42726	0.0998
G ion	25.387	31284	0.0903
C maphos	26.750	21451	0.0957

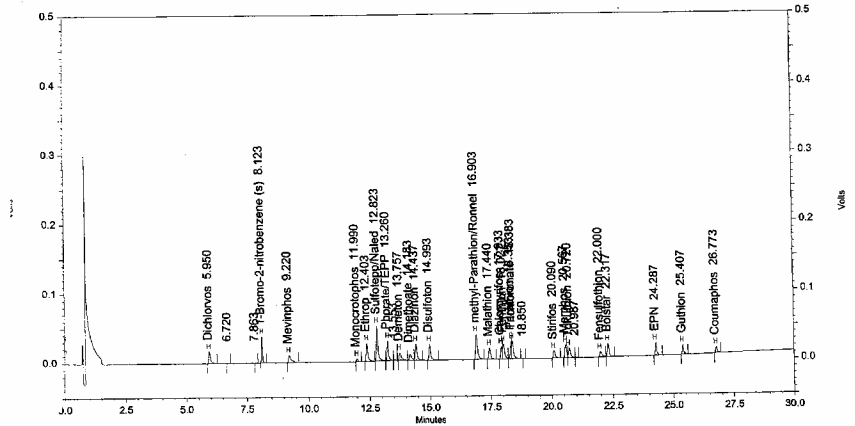
:hannel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)

N	Retention Time	Area	ESTD concentration
D s	5.340	26364	0.1060
1-Bromo-2-nitrobenzene (s)	6.903	40083	4.8306
Mevinphos	8.433	17240	0.1109
M iocrotophos	11.160	5289	0.1071
E op	11.460	32253	0.1005
Naled	11.813	5195	0.0865
Sulfotepp/TEPP	12.147	53525	0.2153
P rate	12.290	38784	0.1078
D neton	12.733	13311	0.1179
Dimethoate	12.807	27594	0.0973
Diazinon	13.650	28546	0.1107
D lfoton	13.800	36961	0.1144
m hyl-Parathion	15.017	30422	0.0992
Ronnel	15.467	24431	0.0995
Malathion	16.127	21928	0.1027
F thion	16.433	22178	0.0990
C orpyrifos/Parathion	16.510	60215	0.2139
T chloronate	16.940	26634	0.1060
Stirifos	18.607	14208	0.0965
Tokuthion	19.133	23638	0.1059
M rphos	19.290	18713	0.1022
F nsulfothion	20.357	12863	0.1036
Bolstar	20.840	29794	0.1277
EPN	22.617	21662	0.1021
C thion	23.490	16958	0.0918
C umaphos	25.077	14641	0.0983

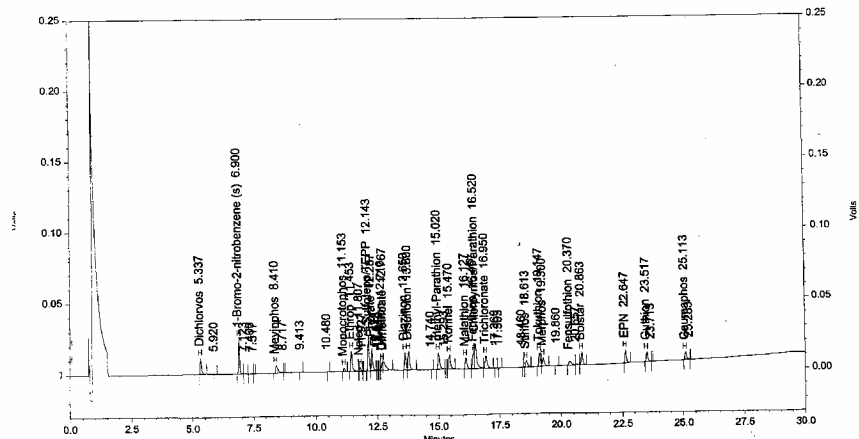
Specialized Assays, Inc. -- Extractable Organics : Dual NPD Report

File Name : C:\EZChrom Elite\Varian5\Public\050400v.003
Sample Name : op 0.2 (4-w-mc-195-3)
Acquired : 5/4/2000 17:56:00
Method : C:\EZChrom Elite\Methods\OPpest varian.met

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)



Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)



Specialized Assays, Inc. -- Extractable Organics : Dual NPD Report

File Name : C:\EZChrom Elite\Varian5\Public\050400v.003
Sample Name : op 0.2 (4-w-mc-195-3)
Acquired : 5/4/2000 17:56:00
Method : C:\EZChrom Elite\Methods\OPpest varian.met

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos	5.950	88885	0.1835
1-Bromo-2-nitrobenzene (s)	8.123	119405	8.6931
Mevinphos	9.220	74686	0.2067
Monocrotophos	11.990	17618	0.1871
Ethrop	12.403	117459	0.1814
Sulfotepp/Naled	12.823	231557	0.3718
Phorate/TEPP	13.260	117679	0.3307
Demeton	13.757	63671	0.1799
Dimethoate	14.183	59907	0.1826
Diazinon	14.437	117887	0.1854
Disulfoton	14.993	118639	0.1906
methyl-Parathion/Ronnel	16.903	206453	0.3705
Malathion	17.440	84591	0.1780
Chlorpyrifos	17.933	77433	0.1865
Fenthion	18.027	124680	0.1909
Parathion	18.353	90915	0.2022
Trichloronate	18.383	125470	0.1807
Stirifos	20.090	58587	0.1746
Merphos	20.567	87220	0.1884
Tokuthion	20.720	76650	0.1855
Fensulfothion	22.000	52269	0.1684
Bolstar	22.317	92761	0.1850
EPN	24.287	78015	0.1823
Gethion	25.407	57397	0.1656
Coumaphos	26.773	38971	0.1739

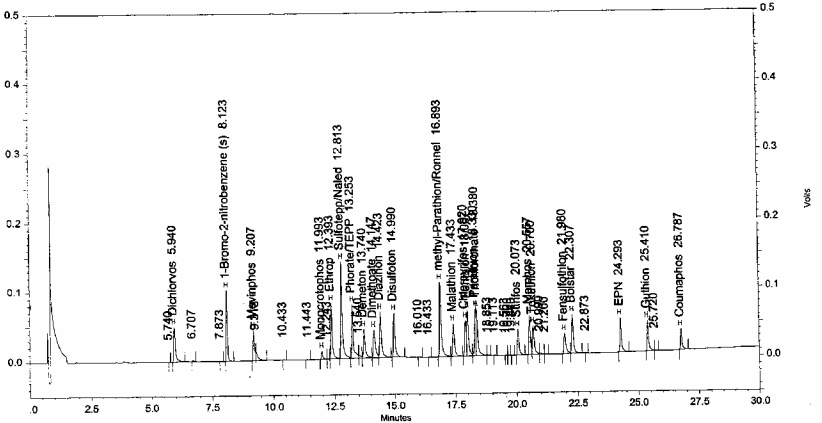
Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos	5.337	45462	0.1827
1-Bromo-2-nitrobenzene (s)	6.900	76603	9.2318
Mevinphos	8.410	36693	0.1810
Monocrotophos	11.153	9339	0.1891
Ethrop	11.453	60732	0.1893
Naled	11.807	10441	0.1738
Sulfotepp/TEPP	12.143	90474	0.3639
Phorate	12.287	62886	0.1748
Demeton	12.710	19202	0.1568
Dimethoate	12.767	46484	0.1639
Diazinon	13.650	47642	0.1848
Disulfoton	13.800	59922	0.1855
methyl-Parathion	15.020	59506	0.1941
Ronnel	15.470	45607	0.1858
Malathion	16.127	37996	0.1780
Fenthion	16.467	46779	0.2088
Chlorpyrifos/Parathion	16.520	108960	0.3870
Trichloronate	16.950	50185	0.1997
Stirifos	18.613	23921	0.1625
Tokuthion	19.147	43067	0.1929
Merphos	19.300	33459	0.1827
Fensulfothion	20.370	19836	0.1598
Bolstar	20.863	40703	0.1745
EPN	22.647	38517	0.1815
Gethion	23.517	31822	0.1723
Coumaphos	25.113	26158	0.1756

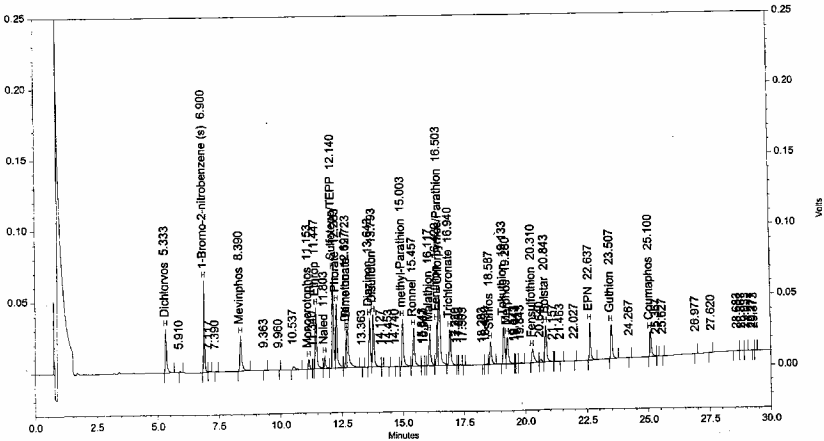
ɔp ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report 415

ile Name : C:\EZChrom Elite\Varian5\Public\050400v.004
ar ple Name : op 0.5 (4-w-mc-195-3)
qu ed : 5/4/2000 18:30:52
letn ~ · C:\EZChrom Elite\Methods\OPpest varian.met

h nnel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)



ɔl nnel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)



000520

S ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report

ile Name : C:\EZChrom Elite\Varian5\Public\050400v.004
Sample Name : op 0.5 (4-w-mc-195-3)
Ac red : 5/4/2000 18:30:52
Metn d : C:\EZChrom Elite\Methods\OPpest varian.met

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos	5.940	251748	0.5196
1-Bromo-2-nitrobenzene (s)	8.123	334311	24.3391
M inphos	9.207	175231	0.4851
M nocrotophos	11.993	48735	0.5175
Ethrop	12.393	340748	0.5264
Sulfotepp/Naled	12.813	645550	1.0364
P rate/TEPP	13.253	375107	1.0540
D neton	13.740	225989	0.5133
Dimethoate	14.147	227954	0.5001
Diazinon	14.423	333554	0.5247
D ulfoton	14.990	319586	0.5135
n thyl-Parathion/Ronnel	16.893	583238	1.0467
Malathion	17.433	253678	0.5339
Chlorpyrifos	17.920	215189	0.5182
F thion	18.007	337476	0.5166
F athion	18.330	252177	0.5608
Trichloronate	18.380	349906	0.5039
Stirifos	20.073	180054	0.5367
M rphos	20.557	238661	0.5156
T uthion	20.700	218839	0.5296
F nsulfothion	21.980	171094	0.5512
Bolstar	22.307	264735	0.5279
EPN	24.293	227732	0.5321
(thion	25.410	196561	0.5672
(umaphos	26.787	123719	0.5521

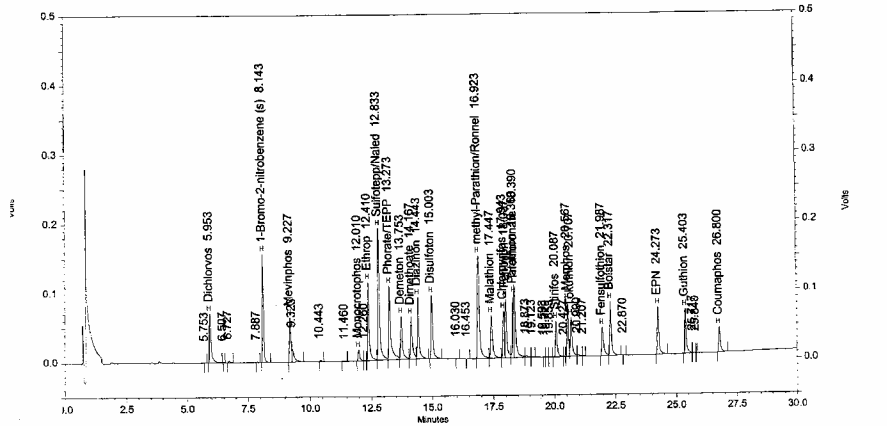
Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos	5.333	123530	0.4965
1-Bromo-2-nitrobenzene (s)	6.900	202774	24.4373
Mevinphos	8.390	124833	0.4988
onocrotophos	11.153	25313	0.5125
hrop	11.447	167605	0.5224
Naled	11.803	33737	0.5615
Sulfotepp/TEPP	12.140	248939	1.0013
orate	12.283	193341	0.5374
emeton	12.697	74409	0.5210
Dimethoate	12.723	154622	0.5451
Diazinon	13.643	131945	0.5118
sulfoton	13.793	161209	0.4991
ethyl-Parathion	15.003	159747	0.5210
Ronnel	15.457	131129	0.5341
Malathion	16.117	117775	0.5516
enthion	16.420	115696	0.5165
hlorpyrifos/Parathion	16.503	296879	1.0544
richloronate	16.940	131475	0.5231
Stirifos	18.587	78646	0.5343
okuthion	19.133	114571	0.5131
erphos	19.280	97033	0.5299
ensulfothion	20.310	62710	0.5052
Bolstar	20.843	119186	0.5110
EPN	22.637	109774	0.5172
uthion	23.507	102992	0.5578
oumaphos	25.100	80586	0.5411

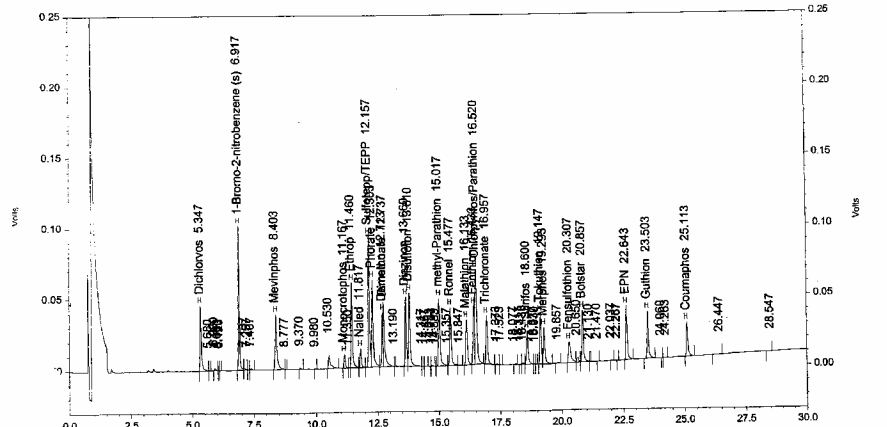
S ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report

File Name : C:\EZChrom Elite\Varian5\Public\050400v.005
Sample Name : op 0.7 (4-w-mc-195-3)
Acq red : 5/4/2000 19:05:48
Method : C:\EZChrom Elite\Methods\OPpest varian.met

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)



Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)



S ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report

File Name : **C:\EZChrom Elite\Varian5\Public\050400v.005**
Sample Name : **op 0.7 (4-w-mc-195-3)**
Acquired : **5/4/2000 19:05:48**
Method : **C:\EZChrom Elite\Methods\OPpest varian.met**

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos	5.953	357695	0.7383
1-Bromo-2-nitrobenzene (s)	8.143	486920	35.4496
Mevinphos	9.227	252796	0.6998
Monocrotophos	12.010	72514	0.7700
Ethrop	12.410	483335	0.7466
Sulfotepp/Naled	12.833	898495	1.4425
Phorate/TEPP	13.273	576247	1.6192
Demeton	13.753	313881	0.6938
Dimethoate	14.167	322802	0.6793
Diazinon	14.443	444006	0.6984
Disulfoton	15.003	435358	0.6996
Methyl-Parathion/Ronnel	16.923	793671	1.4243
Malathion	17.447	353212	0.7434
Chlorpyrifos	17.943	302578	0.7287
Parathion	18.037	453073	0.6936
Parathion	18.360	330595	0.7352
Trichloronate	18.390	497889	0.7170
Stirifos	20.087	252115	0.7515
Merphos	20.567	321934	0.6956
Tokuthion	20.707	299656	0.7252
Ethensulfothion	21.987	235730	0.7594
Bolstar	22.317	356363	0.7106
EPN	24.273	310050	0.7244
Methathion	25.403	270453	0.7804
Coumaphos	26.800	169195	0.7551

Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos	5.347	179915	0.7232
1-Bromo-2-nitrobenzene (s)	6.917	318656	38.4027
Mevinphos	8.403	187395	0.7243
Monocrotophos	11.167	34940	0.7074
Ethrop	11.460	229750	0.7161
Naled	11.817	46999	0.7823
Sulfotepp/TEPP	12.157	353801	1.4231
Phorate	12.303	258008	0.7171
Demeton	12.713	109341	0.7514
Dimethoate	12.737	201708	0.7111
Diazinon	13.660	182637	0.7084
Disulfoton	13.810	230758	0.7145
Methyl-Parathion	15.017	218180	0.7116
Ronnel	15.477	178168	0.7257
Malathion	16.133	151321	0.7087
Methathion	16.433	154063	0.6877
Chlorpyrifos/Parathion	16.520	384077	1.3641
Trichloronate	16.957	164321	0.6538
Stirifos	18.600	110475	0.7506
Tokuthion	19.147	148961	0.6671
Merphos	19.293	124389	0.6792
Ethensulfothion	20.307	97592	0.7862
Bolstar	20.857	159094	0.6821
EPN	22.643	154554	0.7282
Methathion	23.503	142328	0.7708
Coumaphos	25.113	109247	0.7336

3| ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report

419

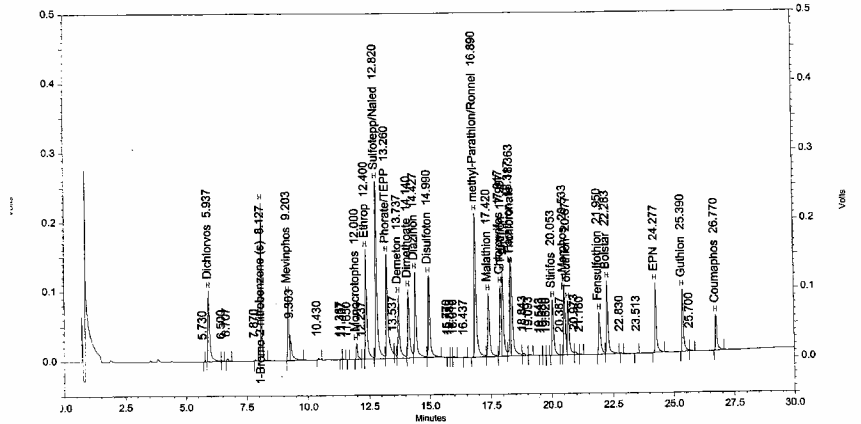
ile Name : C:\EZChrom Elite\Varian5\Public\050400v.006

ample Name : op 1.0 (4-w-mc-195-3)

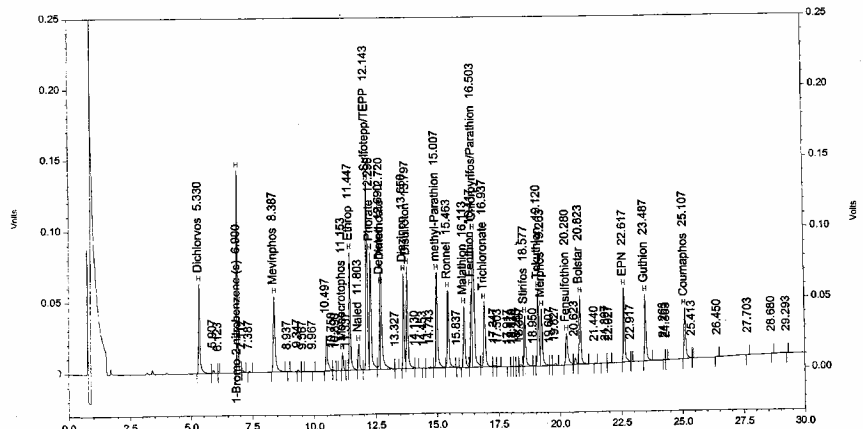
q red : 5/4/2000 19:40:34

Methc C:\EZChrom Elite\Methods\OPpest varian.met

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)



Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)



000524

S ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report 420

File Name : C:\EZChrom Elite\Varian5\Public\050400v.006
Sample Name : op 1.0 (4-w-mc-195-3)
Acquired : 5/4/2000 19:40:34
Method : C:\EZChrom Elite\Methods\OPpest varian.met

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos	5.937	503340	1.0389
1-Bromo-2-nitrobenzene (s)	8.127	692437	50.4121
Mevinphos	9.203	361176	0.9998
Monocrotophos	12.000	101944	1.0825
Ethrop	12.400	672574	1.0390
Sulfotepp/Naled	12.820	1234982	1.9827
Phorate/TEPP	13.260	799498	2.2465
Demeton	13.737	462775	0.9996
Dimethoate	14.140	499888	1.0140
Diazinon	14.427	641949	1.0098
Disulfoton	14.990	618053	0.9932
Methyl-Parathion/Ronnel	16.890	1106011	1.9848
Malathion	17.420	499516	1.0513
Chlorpyrifos	17.917	422565	1.0176
Parathion	17.997	634987	0.9721
Parathion	18.317	479609	1.0666
Trichloronate	18.363	675665	0.9730
Stirifos	20.053	367505	1.0954
Merphos	20.533	458407	0.9904
Tokuthion	20.677	422650	1.0229
Fensulfothion	21.950	336977	1.0856
Bolstar	22.283	503881	1.0047
EPN	24.277	430037	1.0048
Coumthion	25.390	382547	1.1038
Coumaphos	26.770	230320	1.0279

Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos	5.330	252081	1.0132
1-Bromo-2-nitrobenzene (s)	6.900	437970	52.7818
Mevinphos	8.387	259693	0.9850
Monocrotophos	11.153	47332	0.9584
Ethrop	11.447	316405	0.9862
Naled	11.803	66215	1.1021
Sulfotepp/TEPP	12.143	502495	2.0212
Phorate	12.290	352187	0.9789
Demeton	12.690	139898	0.9529
Dimethoate	12.720	333793	1.1767
Diazinon	13.650	245649	0.9528
Disulfoton	13.797	302759	0.9374
Methyl-Parathion	15.007	301070	0.9820
Ronnel	15.463	241225	0.9826
Malathion	16.113	211775	0.9918
Parathion	16.417	214136	0.9559
Chlorpyrifos/Parathion	16.503	532957	1.8929
Trichloronate	16.937	244404	0.9725
Stirifos	18.577	170131	1.1559
Tokuthion	19.120	224594	1.0057
Merphos	19.263	192259	1.0499
Fensulfothion	20.280	137462	1.1073
Bolstar	20.823	218726	0.9378
EPN	22.617	214400	1.0101
Coumthion	23.487	195147	1.0569
Coumaphos	25.107	154196	1.0354

7D

ORGANOPHOSPHORUS PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name : SPECIALIZED ASSAYS
Lab Code : SASSAYS

SDG : 189955

EPA Sample ID (CCV) : CCV02
Lab Sample ID (CCV) : op 0.5

Date Analyzed : 5/5/00
Time Analyzed : 06:08

GC Column (1) : DB-XLB ID : 30 m x 0.45 mm
Initial Calibration Date(s) : 5/4/00

GC Column (2) : DB-5 ID : 30 m x 0.45 mm
Initial Calibration Date(s) : 5/4/00

COMPOUNDS	RT	RT Window From	RT Window To	Calc. Amount (ng)	Known Amount (ng)	% Diff.	
Dichlorvos	5.92	5.87	5.97	489	500	-2	
1Bromo2nitrobenzene	8.10	8.05	8.15	23518	20000	18	*
Mevinphos	9.19	9.14	9.24	467	500	-7	
Monocrotophos	11.97	11.92	12.02	501	500	0	
Ethrop	12.38	12.33	12.43	489	500	-2	
Naled	12.80	12.75	12.85	939	1000	-6	
Sulfotepp	12.80	12.75	12.85	939	1000	-6	
TEPP	13.24	13.19	13.29	861	1000	-14	
Phorate	13.24	13.19	13.29	861	1000	-14	
ıeton	13.72	13.67	13.77	422	500	-16	*
Dimethoate	14.13	14.08	14.18	451	500	-10	
Diazinon	14.41	14.36	14.46	478	500	-4	
Disulfoton	14.96	14.91	15.01	484	500	-3	
Methyl-parathion	16.86	16.79	16.93	984	1000	-2	
Ronnel	16.86	16.79	16.93	984	1000	-2	
Malathion	17.40	17.33	17.47	510	500	2	
Parathion	18.31	18.24	18.38	607	500	21	*
Chlorpyrifos	17.89	17.82	17.96	516	500	3	
Fenthion	17.98	17.91	18.05	483	500	-3	
Trichloronate	18.34	18.27	18.41	432	500	-14	
Stirifos	20.05	19.98	20.12	503	500	1	
Tokuthion	20.67	20.60	20.74	492	500	-2	
Merphos	20.53	20.46	20.60	487	500	-3	
Fensulfothion	21.94	21.87	22.01	533	500	7	
Bolstar	22.27	22.20	22.34	485	500	-3	
EPN	24.24	24.17	24.31	496	500	-1	
Guthion	25.36	25.29	25.43	522	500	4	
Coumaphos	26.73	26.66	26.80	512	500	2	

Average % Difference: 6

COMPOUNDS	RT	RT Window From	RT Window To	Calc. Amount (ng)	Known Amount (ng)	% Diff.	
Dichlorvos	5.31	5.26	5.36	562	500	12	
1Bromo2nitrobenzene	6.88	6.83	6.93	27459	20000	37	*
Mevinphos	8.36	8.31	8.41	540	500	8	
Monocrotophos	11.13	11.08	11.18	559	500	12	
Ethrop	11.42	11.37	11.47	539	500	8	
Naled	11.78	11.73	11.83	577	500	15	
TEPP	12.11	12.06	12.16	1050	1000	5	
Sulfotepp	12.11	12.06	12.16	1050	1000	5	
Phorate	12.26	12.21	12.31	554	500	11	
Demeton	12.66	12.61	12.71	531	500	6	
Dimethoate	12.70	12.65	12.75	534	500	7	
Diazinon	13.62	13.57	13.67	530	500	6	
Disulfoton	13.76	13.71	13.81	504	500	1	
Methyl-parathion	14.97	14.90	15.04	517	500	3	
Ronnel	15.43	15.36	15.50	518	500	4	
Malathion	16.08	16.01	16.15	555	500	11	
Fenthion	16.39	16.32	16.46	515	500	3	
Chlorpyrifos	16.46	16.39	16.53	1109	1000	11	
Parathion	16.46	16.39	16.53	1109	1000	11	
Trichloronate	16.90	16.83	16.97	545	500	9	
Stirifos	18.55	18.48	18.62	602	500	20	*
Tokuthion	19.10	19.03	19.17	538	500	8	
Merphos	19.24	19.17	19.31	524	500	5	
Fensulfothion	20.26	20.19	20.33	604	500	21	*
Bolstar	20.80	20.73	20.87	540	500	8	
EPN	22.59	22.52	22.66	563	500	13	
Guthion	23.46	23.39	23.53	603	500	21	*
Coumaphos	25.06	24.99	25.13	649	500	30	*

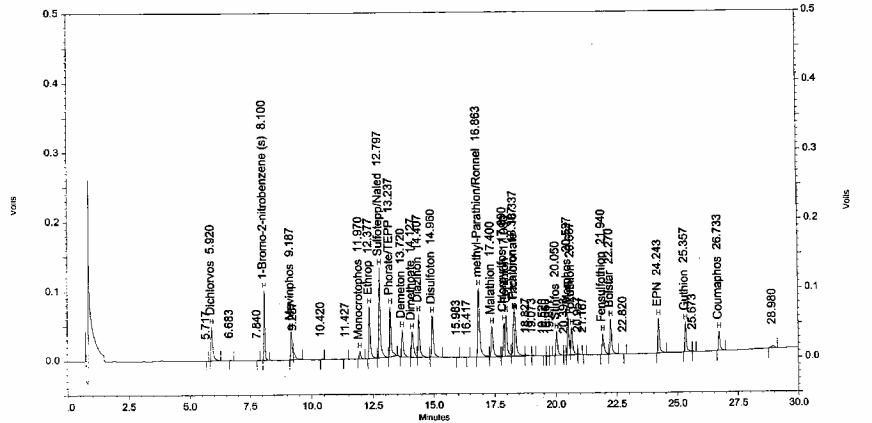
Average % Difference: 11

000526

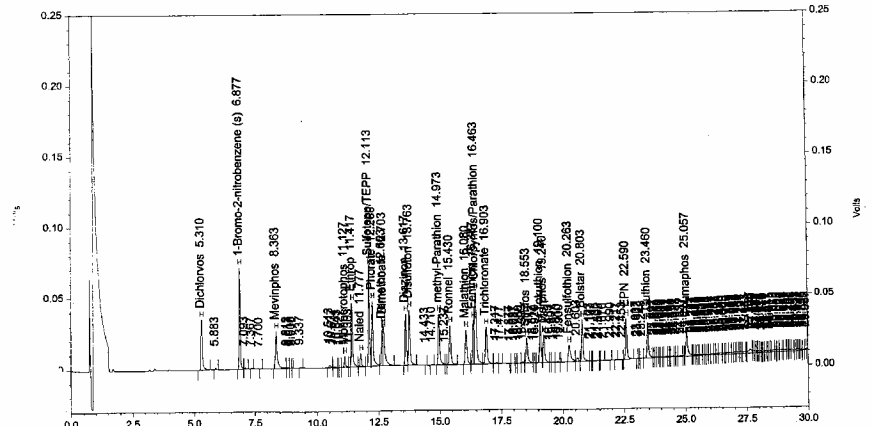
Specialized Assays, Inc. -- Extractable Organics : Dual NPD Report

File Name : C:\EZChrom Elite\Varian5\Public\050400v.024
Sample Name : op 0.5 (4-w-mc-195-3)
Acquired : 5/5/2000 06:08:16
Method : C:\EZChrom Elite\Methods\OPpest varian.met

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)



Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)



S ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report 423

File Name : **C:\EZChrom Elite\Varian5\Public\050400v.024**
Sample Name : **op 0.5 (4-w-mc-195-3)**
Acquired : **5/5/2000 06:08:16**
Method : **C:\EZChrom Elite\Methods\OPpest varian.met**

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos	5.920	237016	0.4892
1-Bromo-2-nitrobenzene (s)	8.100	323031	23.5179
Mevinphos	9.187	168614	0.4667
Monocrotophos	11.970	47168	0.5009
Ethrop	12.377	316683	0.4892
Sulfotepp/Naled	12.797	585056	0.9393
Phorate/TEPP	13.237	306247	0.8605
Demeton	13.720	181471	0.4218
Dimethoate	14.127	202192	0.4514
Diazinon	14.407	304041	0.4783
Disulfoton	14.960	300955	0.4836
Methyl-Parathion/Ronnel	16.863	548107	0.9836
Malathion	17.400	242463	0.5103
Chlorpyrifos	17.890	214156	0.5157
Menthion	17.980	315611	0.4832
Parathion	18.307	272763	0.6066
Trichloronate	18.337	299736	0.4317
Stirifos	20.050	168809	0.5032
Merphos	20.527	225389	0.4870
Tokuthion	20.667	203115	0.4916
Ensulfothion	21.940	165473	0.5331
Bolstar	22.270	243464	0.4854
EPN	24.243	212468	0.4964
Guthion	25.357	180966	0.5222
Coumaphos	26.733	114712	0.5119

Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos	5.310	139753	0.5617
1-Bromo-2-nitrobenzene (s)	6.877	227850	27.4593
Mevinphos	8.363	136170	0.5397
Monocrotophos	11.127	27604	0.5589
Ethrop	11.417	172887	0.5389
Naled	11.777	34691	0.5774
Sulfotepp/TEPP	12.113	261090	1.0502
Phorate	12.260	199162	0.5536
Demeton	12.663	75991	0.5314
Dimethoate	12.703	151339	0.5335
Diazinon	13.617	136580	0.5298
Disulfoton	13.763	162862	0.5043
Methyl-Parathion	14.973	158435	0.5167
Ronnel	15.430	127094	0.5177
Malathion	16.080	118429	0.5547
Menthion	16.387	115311	0.5147
Chlorpyrifos/Parathion	16.463	312097	1.1085
Trichloronate	16.903	136906	0.5447
Stirifos	18.553	88530	0.6015
Tokuthion	19.100	120018	0.5374
Merphos	19.240	95920	0.5238
Ensulfothion	20.263	74972	0.6039
Bolstar	20.803	125896	0.5398
EPN	22.590	119416	0.5626
Guthion	23.460	111277	0.6027
Coumaphos	25.057	96664	0.6491

7D
ORGANOPHOSPHORUS PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name : SPECIALIZED ASSAYS
Lab Code : SASSAYS

SDG : 189955

EPA Sample ID (CCV) : CCV03
Lab Sample ID (CCV) : op 0.5

Date Analyzed : 5/5/00
Time Analyzed : 12:31

GC Column (1) : DB-XLB ID : 30 m x 0.45 mm
Initial Calibration Date(s) : 5/4/00

GC Column (2) : DB-5 ID : 30 m x 0.45 mm
Initial Calibration Date(s) : 5/4/00

COMPOUNDS	RT	RT Window From	RT Window To	Calc. Amount (ng)	Known Amount (ng)	% Diff.	
Dichlorvos	5.96	5.91	6.01	489	500	-2	
1Bromo2nitrobenzene	8.14	8.09	8.19	22672	20000	13	
Mevinphos	9.23	9.18	9.28	449	500	-10	
Monocrotophos	12.01	11.96	12.06	508	500	2	
Ethrop	12.42	12.37	12.47	502	500	0	
Naled	12.84	12.79	12.89	967	1000	-3	
Sulfotepp	12.84	12.79	12.89	967	1000	-3	
TEPP	13.28	13.23	13.33	993	1000	-1	
Phorate	13.28	13.23	13.33	993	1000	-1	
[illegible]ton	13.75	13.70	13.80	486	500	-3	
Dimethoate	14.16	14.11	14.21	473	500	-5	
Diazinon	14.44	14.39	14.49	483	500	-3	
Disulfoton	15.00	14.95	15.05	476	500	-5	
Methyl-parathion	16.91	16.84	16.98	959	1000	-4	
Ronnel	16.91	16.84	16.98	959	1000	-4	
Malathion	17.44	17.37	17.51	480	500	-4	
Parathion	18.35	18.28	18.42	573	500	15	
Chlorpyrifos	17.94	17.87	18.01	495	500	-1	
Fenthion	18.02	17.95	18.09	460	500	-8	
Trichloronate	18.37	18.30	18.44	418	500	-16	*
Stirifos	20.08	20.01	20.15	517	500	3	
Tokuthion	20.70	20.63	20.77	499	500	0	
Merphos	20.56	20.49	20.63	486	500	-3	
Fensulfothion	21.97	21.90	22.04	526	500	5	
Bolstar	22.29	22.22	22.36	495	500	-1	
EPN	24.27	24.20	24.34	490	500	-2	
Guthion	25.39	25.32	25.46	526	500	5	
Coumaphos	26.77	26.70	26.84	520	500	4	

Average % Difference: 5

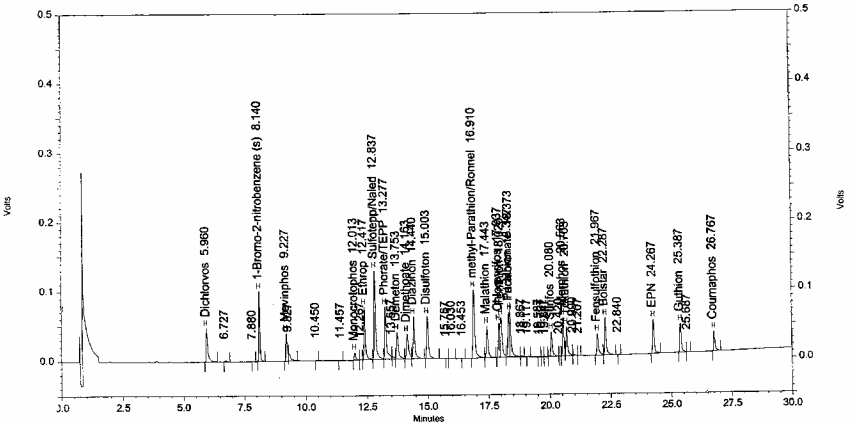
COMPOUNDS	RT	RT Window From	RT Window To	Calc. Amount (ng)	Known Amount (ng)	% Diff.	
Dichlorvos	5.34	5.29	5.39	513	500	3	
1Bromo2nitrobenzene	6.91	6.86	6.96	25663	20000	28	*
Mevinphos	8.40	8.35	8.45	461	500	-8	
Monocrotophos	11.16	11.11	11.21	484	500	-3	
Ethrop	11.46	11.41	11.51	491	500	-2	
Naled	11.82	11.77	11.87	488	500	-2	
TEPP	12.16	12.11	12.21	958	1000	-4	
Sulfotepp	12.16	12.11	12.21	958	1000	-4	
Phorate	12.30	12.25	12.35	495	500	-1	
Demeton	12.71	12.66	12.76	489	500	-2	
Dimethoate	12.74	12.69	12.79	479	500	-4	
Diazinon	13.66	13.61	13.71	489	500	-2	
Disulfoton	13.81	13.76	13.86	469	500	-6	
Methyl-parathion	15.02	14.95	15.09	504	500	1	
Ronnel	15.47	15.40	15.54	503	500	1	
Malathion	16.13	16.06	16.20	518	500	4	
Fenthion	16.43	16.36	16.50	514	500	3	
Chlorpyrifos	16.51	16.44	16.58	1017	1000	2	
Parathion	16.51	16.44	16.58	1017	1000	2	
Trichloronate	16.95	16.88	17.02	494	500	-1	
Stirifos	18.59	18.52	18.66	538	500	8	
Tokuthion	19.14	19.07	19.21	511	500	2	
Merphos	19.28	19.21	19.35	490	500	-2	
Fensulfothion	20.30	20.23	20.37	628	500	26	*
Bolstar	20.85	20.78	20.92	478	500	-4	
EPN	22.62	22.55	22.69	524	500	5	
Guthion	23.47	23.40	23.54	562	500	12	
Coumaphos	25.08	25.01	25.15	588	500	18	*

Average % Difference: 6

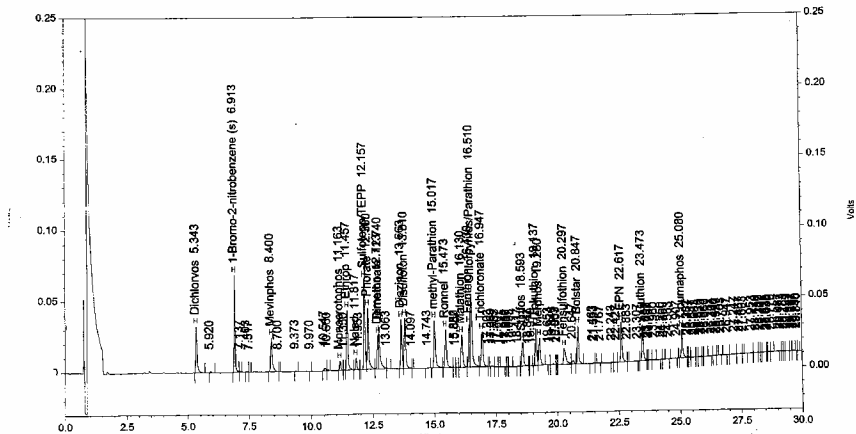
Specialized Assays, Inc. -- Extractable Organics : Dual NPD Report

File Name : C:\EZChrom Elite\Varian5\Public\050400v.035
Sample Name : op 0.5 (4-w-mc-195-3)
Acquired : 5/5/2000 12:31:49
Method : C:\EZChrom Elite\Methods\OPpest varian.met

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)



Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)



S ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report

File Name : **C:\EZChrom Elite\Varian5\Public\050400v.035**
Sample Name : **op 0.5 (4-w-mc-195-3)**
Acquired : **5/5/2000 12:31:49**
Method : **C:\EZChrom Elite\Methods\OPpest varian.met**

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos	5.960	236892	0.4889
1-Bromo-2-nitrobenzene (s)	8.140	311408	22.6717
Mevinphos	9.227	162206	0.4490
Monocrotophos	12.013	47803	0.5076
Ethrop	12.417	324627	0.5015
Sulfotepp/Naled	12.837	602555	0.9674
Phorate/TEPP	13.277	353538	0.9934
Demeton	13.753	212451	0.4855
Dimethoate	14.163	213696	0.4732
Diazinon	14.440	306815	0.4826
Disulfoton	15.003	296083	0.4758
Methyl-Parathion/Ronnel	16.910	534185	0.9586
Malathion	17.443	228227	0.4803
Chlorpyrifos	17.937	205700	0.4954
Fenthion	18.020	300561	0.4601
Parathion	18.347	257557	0.5728
Trichloronate	18.373	290246	0.4180
Stirifos	20.080	173554	0.5173
Merphos	20.563	224796	0.4857
Tokuthion	20.703	206033	0.4986
Ensulfothion	21.967	163296	0.5261
Bolstar	22.287	248332	0.4952
EPN	24.267	209827	0.4903
Ethion	25.387	182330	0.5261
Coumaphos	26.767	116490	0.5199

Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos	5.343	127574	0.5128
1-Bromo-2-nitrobenzene (s)	6.913	212942	25.6626
Mevinphos	8.400	114324	0.4609
Monocrotophos	11.163	23920	0.4843
Ethrop	11.457	157433	0.4907
Naled	11.817	29287	0.4875
Sulfotepp/TEPP	12.157	238064	0.9576
Phorate	12.300	178188	0.4953
Demeton	12.713	69531	0.4888
Dimethoate	12.740	135778	0.4787
Diazinon	13.663	126091	0.4891
Disulfoton	13.810	151587	0.4694
Methyl-Parathion	15.017	154374	0.5035
Ronnel	15.473	123374	0.5025
Malathion	16.130	110523	0.5176
Fenthion	16.430	115133	0.5139
Chlorpyrifos/Parathion	16.510	286506	1.0176
Trichloronate	16.947	124111	0.4938
Stirifos	18.593	79245	0.5384
Tokuthion	19.137	114013	0.5106
Merphos	19.280	89800	0.4904
Ensulfothion	20.297	77939	0.6278
Bolstar	20.847	111542	0.4782
EPN	22.617	111201	0.5239
Ethion	23.473	103697	0.5616
Coumaphos	25.080	87592	0.5882

7D
ORGANOPHOSPHORUS PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name : SPECIALIZED ASSAYS
Lab Code : SASSAYS

SDG : 189955

EPA Sample ID (CCV) : CCV04
Lab Sample ID (CCV) : op 0.5

Date Analyzed : 5/5/00
Time Analyzed : 17:09

GC Column (1) : DB-XLB ID : 30 m x 0.45 mm
Initial Calibration Date(s) : 5/4/00

GC Column (2) : DB-5 ID : 30 m x 0.45 mm
Initial Calibration Date(s) : 5/4/00

COMPOUNDS	RT	RT Window From	RT Window To	Calc. Amount (ng)	Known Amount (ng)	% Diff.	COMPOUNDS	RT	RT Window From	RT Window To	Calc. Amount (ng)	Known Amount (ng)	% Diff.	
Dichlorvos	5.96	5.91	6.01	480	500	-4	Dichlorvos	5.35	5.30	5.40	509	500	2	
1Bromo2nitrobenzene	8.15	8.10	8.20	22233	20000	11	1Bromo2nitrobenzene	6.91	6.86	6.96	25646	20000	28	*
Mevinphos	9.23	9.18	9.28	432	500	-14	Mevinphos	8.40	8.35	8.45	482	500	-4	
Monocrotophos	12.01	11.96	12.06	495	500	-1	Monocrotophos	11.17	11.12	11.22	522	500	4	
Ethrop	12.41	12.36	12.46	479	500	-4	Ethrop	11.46	11.41	11.51	488	500	-2	
Naled	12.83	12.78	12.88	931	1000	-7	Naled	11.81	11.76	11.86	500	500	0	
Sulfotepp	12.83	12.78	12.88	931	1000	-7	TEPP	12.15	12.10	12.20	981	1000	-2	
TEPP	13.27	13.22	13.32	969	1000	-3	Sulfotepp	12.15	12.10	12.20	981	1000	-2	
Phorate	13.27	13.22	13.32	969	1000	-3	Phorate	12.30	12.25	12.35	506	500	1	
Demeton	13.76	13.71	13.81	455	500	-9	Demeton	12.71	12.66	12.76	551	500	10	
Dimethoate	14.16	14.11	14.21	432	500	-14	Dimethoate	12.73	12.68	12.78	455	500	-9	
Diazinon	14.44	14.39	14.49	448	500	-10	Diazinon	13.66	13.61	13.71	474	500	-5	
Disulfoton	15.00	14.95	15.05	455	500	-9	Disulfoton	13.81	13.76	13.86	452	500	-10	
Methyl-parathion	16.92	16.85	16.99	925	1000	-8	Methyl-parathion	15.02	14.95	15.09	456	500	-9	
Ronnel	16.92	16.85	16.99	925	1000	-8	Ronnel	15.48	15.41	15.55	489	500	-2	
Malathion	17.45	17.38	17.52	464	500	-7	Malathion	16.13	16.06	16.20	499	500	0	
Parathion	18.34	18.27	18.41	466	500	-7	Fenthion	16.44	16.37	16.51	465	500	-7	
Chlorpyrifos	17.94	17.87	18.01	474	500	-5	Chlorpyrifos	16.52	16.45	16.59	999	1000	0	
Fenthion	18.03	17.96	18.10	448	500	-10	Parathion	16.52	16.45	16.59	999	1000	0	
Trichloronate	18.39	18.32	18.46	462	500	-8	Trichloronate	16.96	16.89	17.03	505	500	1	
Stirifos	20.09	20.02	20.16	475	500	-5	Stirifos	18.61	18.54	18.68	512	500	2	
Tokuthion	20.71	20.64	20.78	464	500	-7	Tokuthion	19.15	19.08	19.22	484	500	-3	
Merphos	20.57	20.50	20.64	460	500	-8	Merphos	19.29	19.22	19.36	482	500	-4	
Fensulfothion	21.97	21.90	22.04	485	500	-3	Fensulfothion	20.31	20.24	20.38	540	500	8	
Bolstar	22.30	22.23	22.37	461	500	-8	Bolstar	20.86	20.79	20.93	469	500	-6	
EPN	24.27	24.20	24.34	477	500	-5	EPN	22.64	22.57	22.71	511	500	2	
Guthion	25.39	25.32	25.46	515	500	3	Guthion	23.51	23.44	23.58	535	500	7	
Coumaphos	26.76	26.69	26.83	495	500	-1	Coumaphos	25.11	25.04	25.18	549	500	10	

Average % Difference: 7

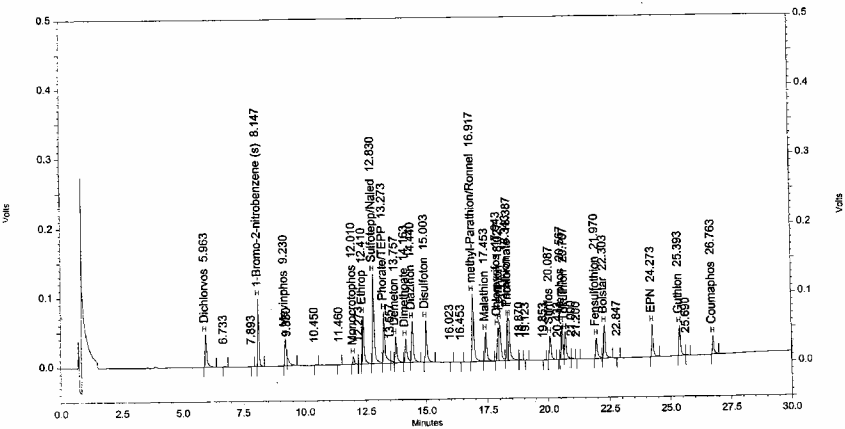
Average % Difference: 5

000532

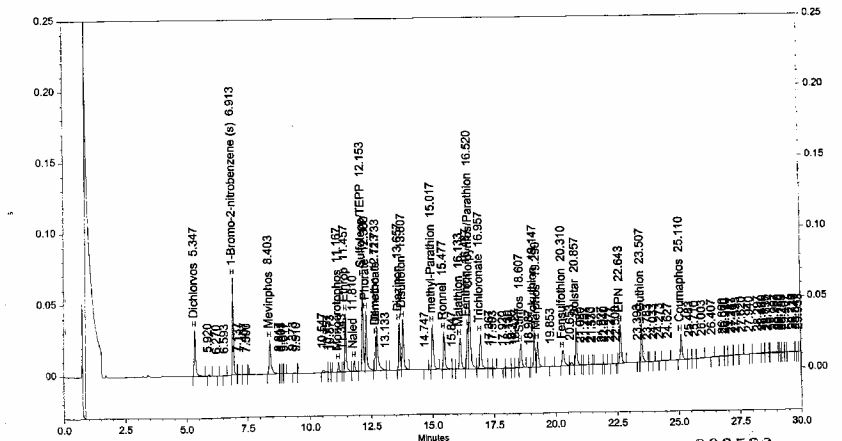
Specialized Assays, Inc. -- Extractable Organics : Dual NPD Report

File Name : C:\EZChrom Elite\Varian5\Public\050400v.041
Sample Name : op 0.5 (4-w-mc-195-3)
Acquired : 5/5/2000 17:09:30
Method : C:\EZChrom Elite\Methods\OPpest varian.met

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)



Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)



S ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report

File Name : C:\EZChrom Elite\Varian5\Public\050400v.041
Sample Name : op 0.5 (4-w-mc-195-3)
Acquired : 5/5/2000 17:09:30
Method : C:\EZChrom Elite\Methods\OPpest varian.met

C nnel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos	5.963	232613	0.4801
1-Bromo-2-nitrobenzene (s)	8.147	305380	22.2328
Mevinphos	9.230	155892	0.4315
Monocrotophos	12.010	46605	0.4949
Ethrop	12.410	309993	0.4789
Sulfotepp/Naled	12.830	580153	0.9314
Phorate/TEPP	13.273	344741	0.9687
Demeton	13.757	197588	0.4549
Dimethoate	14.163	191710	0.4316
Diazinon	14.440	284871	0.4481
Disulfoton	15.003	283275	0.4552
Methyl-Parathion/Ronnel	16.917	515636	0.9254
Malathion	17.453	220653	0.4644
Chlorpyrifos	17.943	196607	0.4735
Menthion	18.027	292871	0.4484
Parathion	18.343	209559	0.4660
Trichloronate	18.387	320664	0.4618
Stirifos	20.087	159183	0.4745
Merphos	20.567	212937	0.4601
Tokuthion	20.707	191499	0.4635
Fensulfothion	21.970	150388	0.4845
Bolstar	22.303	231275	0.4611
EPN	24.273	204222	0.4772
Guthion	25.393	178370	0.5147
Coumaphos	26.763	110879	0.4948

Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos	5.347	126707	0.5093
1-Bromo-2-nitrobenzene (s)	6.913	212804	25.6460
Mevinphos	8.403	120153	0.4819
Monocrotophos	11.167	25775	0.5219
Ethrop	11.457	156623	0.4882
Naled	11.810	30027	0.4998
Sulfotepp/TEPP	12.153	243886	0.9810
Phorate	12.300	182003	0.5059
Demeton	12.713	79028	0.5514
Dimethoate	12.733	129137	0.4552
Diazinon	13.657	122317	0.4744
Disulfoton	13.807	145927	0.4518
Methyl-Parathion	15.017	139840	0.4561
Ronnel	15.477	120067	0.4891
Malathion	16.133	106605	0.4993
Menthion	16.437	104266	0.4654
Chlorpyrifos/Parathion	16.520	281185	0.9987
Trichloronate	16.957	126932	0.5050
Stirifos	18.607	75388	0.5122
Tokuthion	19.147	108022	0.4837
Merphos	19.290	88301	0.4822
Fensulfothion	20.310	67000	0.5397
Bolstar	20.857	109287	0.4686
EPN	22.643	108544	0.5114
Guthion	23.507	98834	0.5353
Coumaphos	25.110	81758	0.5490

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

BLANK

Matrix: Soil
% Dry Weight: 100
Units: UG/KG
Dilution Factor: 1
Analysis Method: SW8141
Delivery Group: 189955
Instrument: Varian-5
Grams Extracted: 30.0 g
Extract Vol: 10.0 ml

Lab Sample ID: BLANK
Date Sampled:
Date Received:
Analysis Date: 5/ 5/00
Analysis Time: 6:43
Sample QC Group: 306

Extraction Date: 5/ 2/00

FORM I

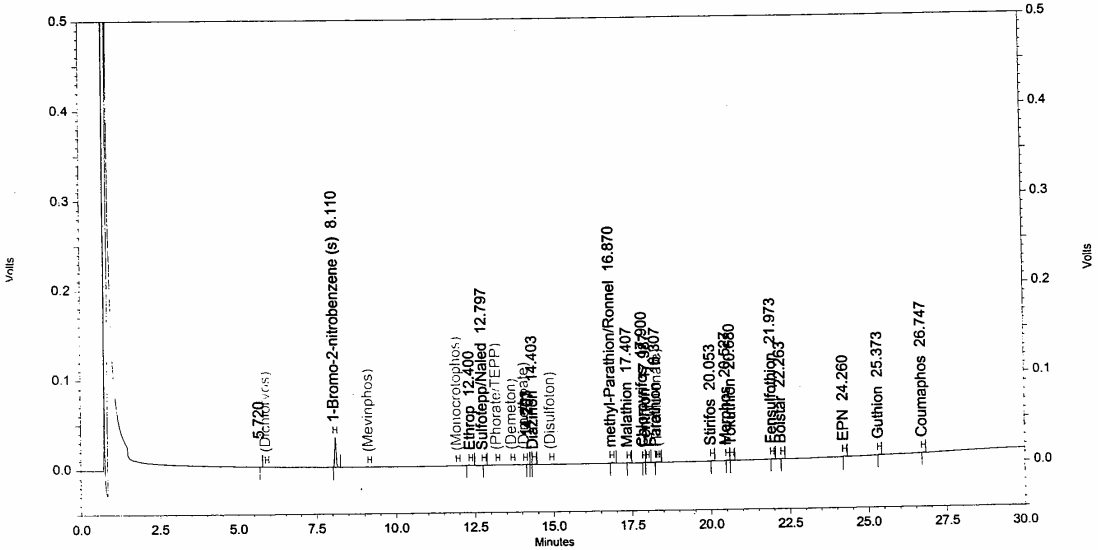
CAS NUMBER	ANALYTE	CONCENTRATION Col#1	Flag	Col#2	Flag
86-50-0	Azinphos, methyl	100	U	100	U
35400-43-2	Bolstar	100	U	100	U
2921-88-2	Chlorpyrifos	100	U	100	U
56-72-4	Coumaphos	100	U	100	U
8065-48-3	Demeton-o	100	U	100	U
126-75-0	Demeton-s	100	U	100	U
333-41-5	Diazinon	100	U	100	U
62-73-7	Dichlorvos	200	U	200	U
298-04-4	Disulfoton	200	U	200	U
13194-48-4	Ethoprop	100	U	100	U
115-90-2	Fensulfothion	200	U	200	U
55-38-9	Fenthion	200	U	200	U
150-50-5	Merphos	200	U	200	U
7786-34-7	Mevinphos	200	U	200	U
142-59-6	Naled	1000	U	1000	U
298-00-0	Methylparathion	200	U	200	U
298-02-2	Phorate	100	U	100	U
299-84-3	Ronnel	200	U	200	U
22248-79-9	Stirofos	100	U	100	U
34643-46-4	Tokuthion	100	U	100	U
327-98-0	Trichloronate	100	U	100	U
60-51-5	Dimethoate	200	U	200	U
2104-64-5	EPN	100	U	100	U
121-75-5	Malathion	100	U	100	U
6923-22-4	Monocrotophos	100	U	100	U
56-38-2	Ethyl parathion	100	U	100	U
3689-24-5	Sulfotep	100	U	100	U
107-49-3	TEPP	200	U	200	U

COPY 1

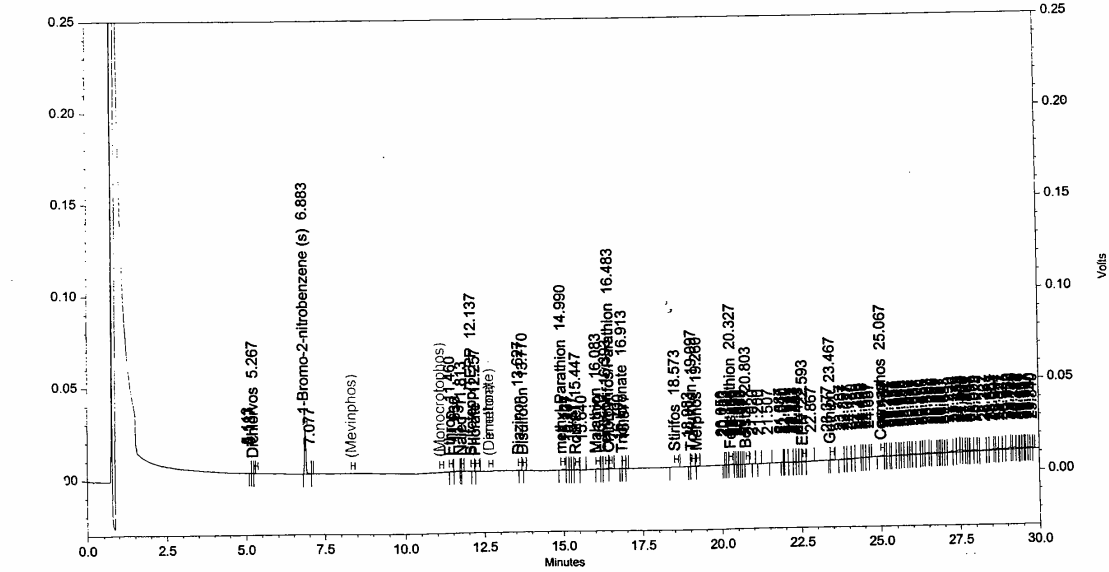
Specialized Assays, Inc. -- Extractable Organics : Dual NPD Report

File Name : C:\EZChrom Elite\Varian5\Public\050400v.025
Sample Name : 12302 sbp
Acquired : 5/5/2000 06:43:09
Method : C:\EZChrom Elite\Methods\OPpest varian.met

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)



Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)



S ɔecialized Assays, Inc. -- Extractable Organics : Dual NPD Report432

File Name : **C:\EZChrom Elite\Varian5\Public\050400v.025**
Sa ple Name : **12302 sbp**
A ired : **5/5/2000 06:43:09**
Meth : **C:\EZChrom Elite\Methods\OPpest varian.met**

C nnel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)

me	Retention Time	Area	ESTD concentration
Dichlorvos			0.0000 BDL
1-Bromo-2-nitrobenzene (s)	8.110	102833	7.4866
vinphos			0.0000 BDL
nocrotophos			0.0000 BDL
Ethrop	12.400	5302	0.0082
Sulfotepp/Naled	12.797	1055	0.0017
orate/TEPP			0.0000 BDL
meton			0.0000 BDL
Dimethoate			0.0000 BDL
Diazinon	14.403	1449	0.0023
sulfoton			0.0000 BDL
thyl-Parathion/Ronnel	16.870	5317	0.0095
Malathion	17.407	2290	0.0048
Chlorpyrifos	17.900	1454	0.0035
nthion	17.987	2936	0.0045
rathion	18.307	4397	0.0098
chloronate			0.0000 BDL
Stirifos	20.053	1593	0.0047
erphos	20.527	1419	0.0031
kuthion	20.680	1553	0.0038
nsulfothion	21.973	2432	0.0078
Bolstar	22.263	1886	0.0038
EPN	24.260	2466	0.0058
thion	25.373	2604	0.0075
oumaphos	26.747	1915	0.0085

Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)

	Retention Time	Area	ESTD concentration
vos	5.267	143	0.0006
1-Bromo-2-nitrobenzene (s)	6.883	76576	9.2285
evinphos			0.0000 BDL
onocrotophos			0.0000 BDL
throp	11.460	1728	0.0054
Naled	11.813	243	0.0040
Sulfotepp/TEPP	12.137	361	0.0015
horate	12.257	693	0.0019
emeton			0.0000 BDL
Dimethoate			0.0000 BDL
Diazinon	13.627	550	0.0021
isulfoton	13.770	391	0.0012
ethyl-Parathion	14.990	3365	0.0110
Ronnel	15.447	2315	0.0094
Malathion	16.083	1723	0.0081
enthion	16.393	2482	0.0111
hlorpyrifos/Parathion	16.483	3303	0.0117
richloronate	16.913	931	0.0037
Stirifos	18.573	2217	0.0151
okuthion	19.097	1234	0.0055
erphos	19.260	957	0.0052
ensulfothion	20.327	1933	0.0156
Bolstar	20.803	1437	0.0062
EPN	22.593	1952	0.0092
uthion	23.467	2026	0.0110
oumaphos	25.067	2487	0.0167

1D
OPPESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name : Specialized Assays
Lab Code : SASSAYS Case No : 189955

264716MS

Matrix (soil/water) : soil
Sample wt/vol : 11 (g)
%Moisture : 2 %
Extraction : Sonc.
Extract Volume : 10000 (uL)
Injection Volume : 1.0 (uL)
GPC Cleanup (Y/N) : No
pH :
Sulfur Cleanup (Y/N) : No

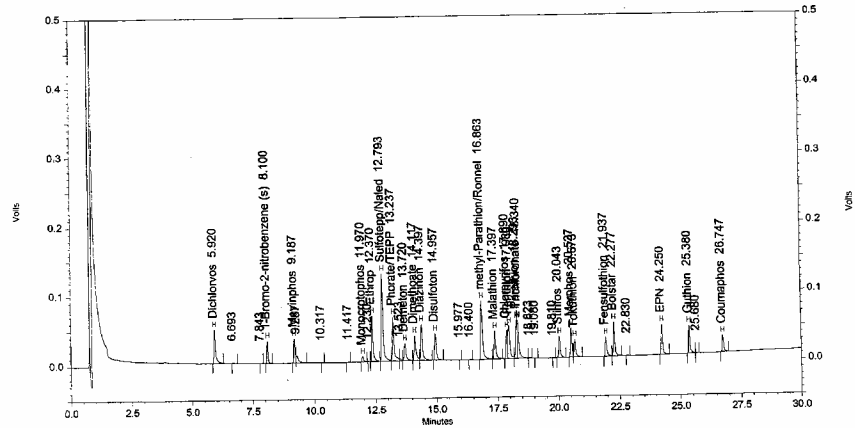
Decanted (Y/N) : No
Lab Sample ID : 12303 ssp
Lab File ID : 050400v.026
Date Received : 4/28/00
Date Extracted : 5/2/00
Date Analyzed : 5/5/00
Dilution Factor : 1

		CONCENTRATION UNITS :	
CAS NO.	COMPOUND	(ug/kg)	Q
62-73-7	Dichlorvos	465	
7786-34-7	Mevinphos	387	
6923-22-4	Monocrotophos	304	
13194-48-4	Ethrop	417	
300-76-5	Naled	881	
3689-24-5	Sulfotepp	881	
107-49-3	TEPP	786	
298-02-2	Phorate	368	
8065-48-3	Demeton	368	
60-51-5	Dimethoate	380	
333-41-5	Diazinon	410	
298-04-4	Disulfoton	410	
298-00-0	Methyl-parathion	396	
299-84-3	Ronnel	375	
121-75-5	Malathion	429	
2921-88-2	Dursban	375	
55-38-9	Fenthion	429	
56-38-9	Parathion	430	
327-98-0	Trichloronate	759	
961-11-5	Stirifos	391	
34643-46-4	Tokuthion	391	
150-50-5	Merphos	388	
115-90-2	Fensulfothion	468	
2104-64-5	EPN	468	
35400-43-2	Bolstar	458	
86-50-0	Guthion	458	
56-72-4	Coumaphos	428	

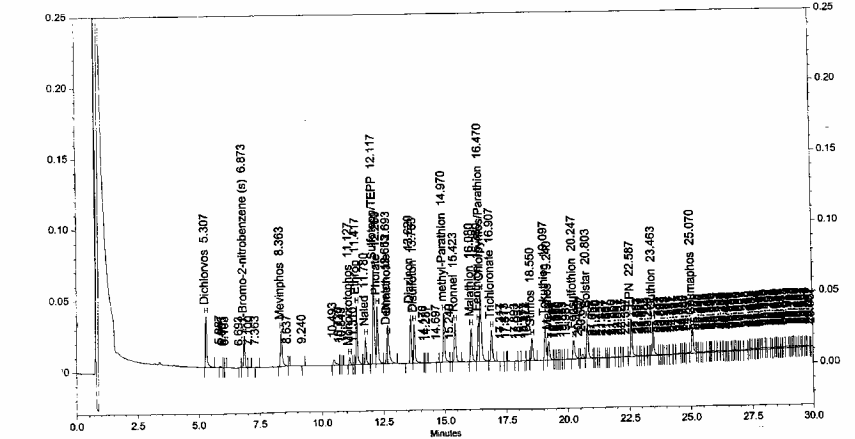
Specialized Assays, Inc. -- Extractable Organics : Dual NPD Report

File Name : C:\EZChrom Elite\Varian5\Public\050400v.026
Sample Name : 12303 ssp
Acquired : 5/5/2000 07:17:58
Method : C:\EZChrom Elite\Methods\OPpest varian.met

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)



Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)



S ›ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report435

File Name : **C:\EZChrom Elite\Varian5\Public\050400v.026**
Sample Name : **12303 ssp**
A ‹ ired : **5/5/2000 07:17:58**
Meth‹ ‹ : **C:\EZChrom Elite\Methods\OPpest varian.met**

C ‹ ‹annel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)

I ‹ me	Retention Time	Area	ESTD concentration
Dichlorvos	5.920	233518	0.4820
1 Bromo-2-nitrobenzene (s)	8.100	101383	7.3811
I ‹vinphos	9.187	137087	0.3795
I ›nocrotophos	11.970	31190	0.3312
Ethrop	12.370	275399	0.4254
Sulfotepp/Naled	12.793	594381	0.9543
I ‹orate/TEPP	13.237	292266	0.8212
I ›meton	13.720	130473	0.3171
Dimethoate	14.117	188155	0.4249
Diazinon	14.397	258731	0.4070
›sulfoton	14.957	189476	0.3045
›thyl-Parathion/Ronnel	16.863	452857	0.8127
Malathion	17.397	203020	0.4273
Chlorpyrifos	17.890	171269	0.4124
›nthion	17.980	257311	0.3939
›rathion	18.293	186886	0.4156
›ichloronate	18.340	288926	0.4161
Stirifos	20.043	139825	0.4168
‹‹erphos	20.527	185031	0.3998
›kuthion	20.673	126814	0.3069
›ensulfothion	21.937	141521	0.4559
Bolstar	22.277	205167	0.4091
EPN	24.250	181805	0.4248
›uthion	25.380	155102	0.4475
›oumaphos	26.747	93509	0.4173

C‹ ‹annel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)

‹ ‹	Retention Time	Area	ESTD concentration
›ic‹ ›vos	5.307	137945	0.5545
1-Bromo-2-nitrobenzene (s)	6.873	73027	8.8008
‹‹evinphos	8.363	116775	0.4697
›onocrotophos	11.127	18461	0.3738
›throp	11.417	155958	0.4861
Naled	11.780	68437	1.1391
Sulfotepp/TEPP	12.117	235834	0.9486
›horate	12.260	160756	0.4468
›emeton	12.663	45790	0.3322
Dimethoate	12.693	126826	0.4471
Diazinon	13.620	126271	0.4898
›isulfoton	13.763	119718	0.3707
›ethyl-Parathion	14.970	145676	0.4751
Ronnel	15.423	115207	0.4693
Malathion	16.080	109532	0.5130
›enthion	16.380	106815	0.4768
›hlorpyrifos/Parathion	16.470	266145	0.9453
›richloronate	16.907	106270	0.4228
Stirifos	18.550	73516	0.4995
›okuthion	19.097	101344	0.4538
›erphos	19.240	63114	0.3446
›ensulfothion	20.247	67364	0.5427
Bolstar	20.803	112951	0.4843
EPN	22.587	116914	0.5508
›uthion	23.463	105338	0.5705
›oumaphos	25.070	82589	0.5546

1D
OPPESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name : Specialized Assays
Lab Code : SASSAYS Case No : 189955

264716MSD

Matrix (soil/water) : soil
Sample wt/vol : 10 (g)
%Moisture : 3 %
Extraction : Sonc.
Extract Volume : 10000 (uL)
Injection Volume : 1.0 (uL)
GPC Cleanup (Y/N) : No
pH :
Sulfur Cleanup (Y/N) : No

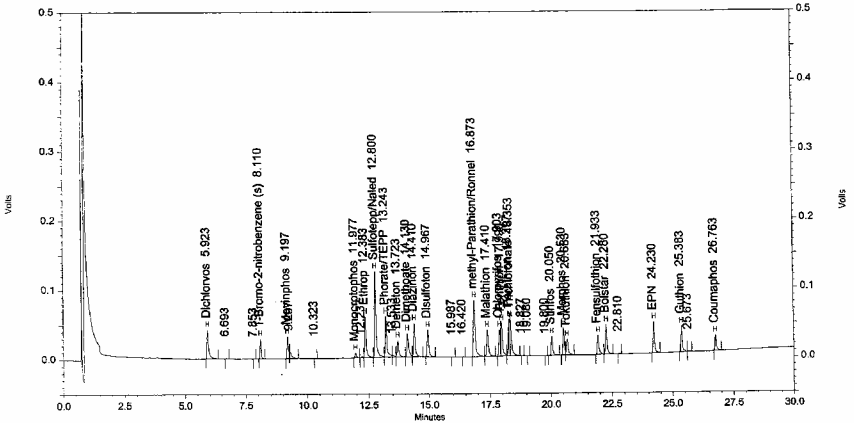
Decanted (Y/N) : No
Lab Sample ID : 12304 ssp
Lab File ID : 050400v.027
Date Received : 4/28/00
Date Extracted : 5/2/00
Date Analyzed : 5/5/00
Dilution Factor : 1

		CONCENTRATION UNITS :	
CAS NO.	COMPOUND	(ug/kg)	Q
62-73-7	Dichlorvos	441	
7786-34-7	Mevinphos	391	
6923-22-4	Monocrotophos	300	
13194-48-4	Ethrop	413	
300-76-5	Naled	878	
3689-24-5	Sulfotepp	878	
107-49-3	TEPP	803	
298-02-2	Phorate	379	
8065-48-3	Demeton	379	
60-51-5	Dimethoate	409	
333-41-5	Diazinon	409	
298-04-4	Disulfoton	385	
298-00-0	Methyl-parathion	375	
299-84-3	Ronnel	353	
121-75-5	Malathion	427	
2921-88-2	Dursban	353	
55-38-9	Fenthion	427	
56-38-9	Parathion	414	
327-98-0	Trichloronate	763	
961-11-5	Stirifos	396	
34643-46-4	Tokuthion	396	
150-50-5	Merphos	373	
115-90-2	Fensulfothion	486	
2104-64-5	EPN	486	
35400-43-2	Bolstar	423	
86-50-0	Guthion	423	
56-72-4	Coumaphos	396	

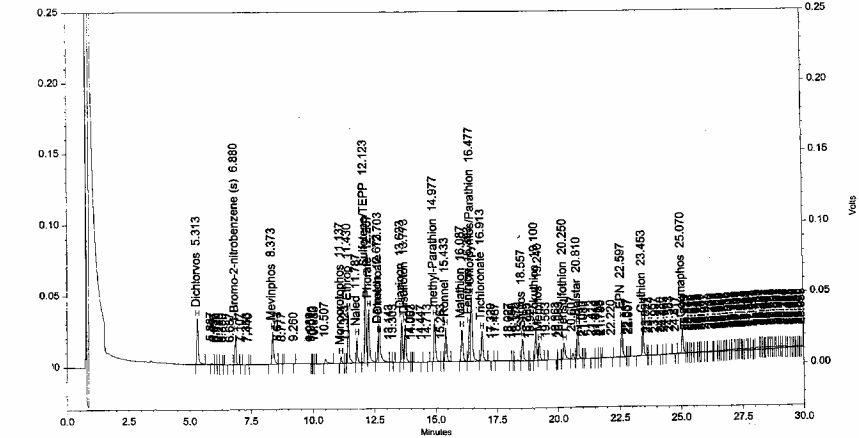
Specialized Assays, Inc. -- Extractable Organics : Dual NPD Report

File Name : C:\EZChrom Elite\Varian5\Public\050400v.027
Sample Name : 12304 ssp
Acquired : 5/5/2000 07:52:49
Method : C:\EZChrom Elite\Methods\OPpest varian.met

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)



Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)



Specialized Assays, Inc. -- Extractable Organics : Dual NPD Report438

File Name : **C:\EZChrom Elite\Varian5\Public\050400v.027**
Sample Name : **12304 ssp**
Acquired : **5/5/2000 07:52:49**
Method : **C:\EZChrom Elite\Methods\OPpest varian.met**

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos	5.923	208352	0.4300
1-Bromo-2-nitrobenzene (s)	8.110	93473	6.8052
Mevinphos	9.197	126067	0.3490
Monocrotophos	11.977	31596	0.3355
Ethrop	12.383	262240	0.4051
Sulfotepp/Naled	12.800	564881	0.9069
Phorate/TEPP	13.243	269557	0.7574
Demeton	13.723	121761	0.2992
Dimethoate	14.130	175164	0.4004
Diazinon	14.410	234178	0.3684
Disulfoton	14.967	181290	0.2913
Methyl-Parathion/Ronnel	16.873	426162	0.7648
Malathion	17.410	196781	0.4142
Chlorpyrifos	17.903	161352	0.3886
Fenthion	17.990	238363	0.3649
Parathion	18.297	214934	0.4780
Trichloronate	18.353	226249	0.3258
Stirifos	20.050	133269	0.3972
Merphos	20.530	171440	0.3704
Tokuthion	20.683	120609	0.2919
Fensulfothion	21.933	141743	0.4566
Bolstar	22.280	190141	0.3791
EPN	24.230	175895	0.4110
Guthion	25.383	152169	0.4391
Coumaphos	26.763	92947	0.4148

Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos	5.313	121572	0.4887
1-Bromo-2-nitrobenzene (s)	6.880	66690	8.0371
Mevinphos	8.373	108334	0.4393
Monocrotophos	11.137	16986	0.3439
Ethrop	11.430	143526	0.4473
Naled	11.787	63520	1.0572
Sulfotepp/TEPP	12.123	224352	0.9024
Phorate	12.267	154228	0.4287
Demeton	12.673	47599	0.3441
Dimethoate	12.703	127315	0.4488
Diazinon	13.623	110294	0.4278
Disulfoton	13.773	103229	0.3196
Methyl-Parathion	14.977	128516	0.4192
Ronnel	15.433	101102	0.4118
Malathion	16.087	101599	0.4758
Fenthion	16.393	95772	0.4275
Chlorpyrifos/Parathion	16.477	249107	0.8848
Trichloronate	16.913	101555	0.4041
Stirifos	18.557	68801	0.4674
Tokuthion	19.100	90727	0.4063
Merphos	19.240	55585	0.3035
Fensulfothion	20.250	64638	0.5207
Bolstar	20.810	97703	0.4189
EPN	22.597	100554	0.4738
Guthion	23.453	88596	0.4798
Coumaphos	25.070	72417	0.4863

1D
OPPESTICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name : Specialized Assays
Lab Code : SASSAYS Case No : 189955
Matrix (soil/water) : soil
Sample wt/vol : 10 (g)
%Moisture : 0 %
Extraction : Sonc.
Extract Volume : 10000 (uL)
Injection Volume : 1.0 (uL)
GPC Cleanup (Y/N) : No
pH :
Sulfur Cleanup (Y/N) : No

CONTROLS

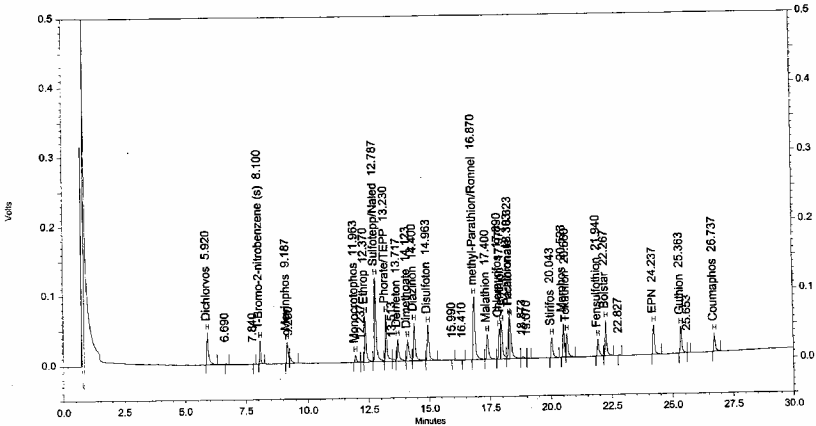
Decanted (Y/N) : No
Lab Sample ID : 13359 lcs
Lab File ID : 050400v.028
Date Received : 4/28/00
Date Extracted : 5/2/00
Date Analyzed : 5/5/00
Dilution Factor : 1

		CONCENTRATION UNITS :	
CAS NO.	COMPOUND	(ug/kg)	Q
62-73-7	Dichlorvos	480	
7786-34-7	Mevinphos	357	
6923-22-4	Monocrotophos	417	
13194-48-4	Ethrop	422	
300-76-5	Naled	844	
3689-24-5	Sulfotepp	844	
107-49-3	TEPP	765	
298-02-2	Phorate	406	
8065-48-3	Demeton	406	
60-51-5	Dimethoate	401	
333-41-5	Diazinon	411	
298-04-4	Disulfoton	411	
298-00-0	Methyl-parathion	403	
299-84-3	Ronnel	395	
121-75-5	Malathion	418	
2921-88-2	Dursban	395	
55-38-9	Fenthion	418	
56-38-9	Parathion	455	
327-98-0	Trichloronate	436	
961-11-5	Stirifos	410	
34643-46-4	Tokuthion	421	
150-50-5	Merphos	421	
115-90-2	Fensulfothion	461	
2104-64-5	EPN	480	
35400-43-2	Bolstar	480	
86-50-0	Guthion	453	
56-72-4	Coumaphos	444	

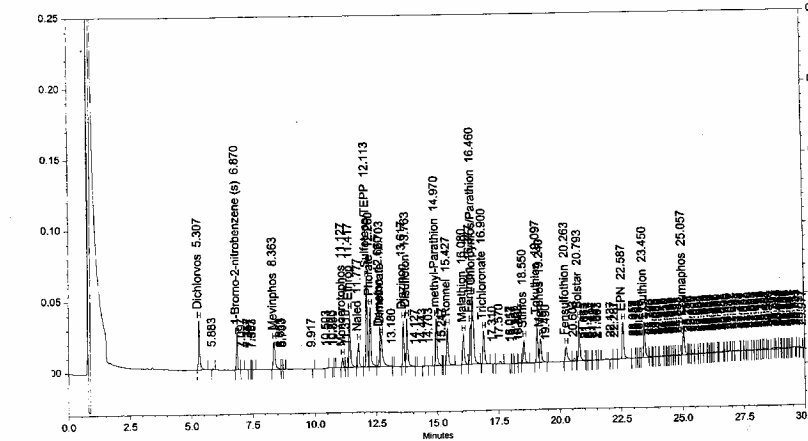
S ıecialized Assays, Inc. -- Extractable Organics : Dual NPD Report 440

Fle Name : C:\EZChrom Elite\Varian5\Public\050400v.028
Sa ıple Name : 13359 lcs
A(ired : 5/5/2000 08:27:38
Meth ' : C:\EZChrom Elite\Methods\OPpest varian.met

C ınnel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)



(ıannel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)



000545

S ecialized Assays, Inc. -- Extractable Organics : Dual NPD Report 441

File Name : **C:\EZChrom Elite\Varian5\Public\050400v.028**
Sample Name : **13359 lcs**
Acquired : **5/5/2000 08:27:38**
Method : **C:\EZChrom Elite\Methods\OPpest varian.met**

Channel A -- DB - XLB column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos	5.920	227582	0.4697
1-Bromo-2-nitrobenzene (s)	8.100	104554	7.6119
Mevinphos	9.187	127673	0.3534
Monocrotophos	11.963	43912	0.4663
Ethrop	12.370	285550	0.4411
Sulfotepp/Naled	12.787	580711	0.9323
Phorate/TEPP	13.230	305944	0.8596
Demeton	13.717	175018	0.4086
Dimethoate	14.123	168899	0.3885
Diazinon	14.400	282070	0.4437
Disulfoton	14.963	258396	0.4152
Methyl-Parathion/Ronnel	16.870	479665	0.8608
Malathion	17.400	210817	0.4437
Chlorpyrifos	17.890	183125	0.4410
Fenthion	17.977	279796	0.4283
Parathion	18.303	227109	0.5050
Trichloronate	18.323	273831	0.3943
Stirifos	20.043	147741	0.4404
Merphos	20.523	198043	0.4279
Tokuthion	20.660	174810	0.4231
Fensulfothion	21.940	129612	0.4176
Bolstar	22.267	221883	0.4424
EPN	24.237	185797	0.4341
Guthion	25.363	167302	0.4827
Coumaphos	26.737	103891	0.4636

Channel B -- DB - 5 column (0.45 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dichlorvos	5.307	136953	0.5505
1-Bromo-2-nitrobenzene (s)	6.870	73314	8.8354
Mevinphos	8.363	100821	0.4122
Monocrotophos	11.127	24396	0.4940
Ethrop	11.417	151948	0.4736
Naled	11.777	63076	1.0499
Sulfotepp/TEPP	12.113	221028	0.8891
Phorate	12.260	170819	0.4748
Demeton	12.660	61312	0.4346
Dimethoate	12.703	129832	0.4577
Diazinon	13.617	121868	0.4727
Disulfoton	13.763	140842	0.4361
Methyl-Parathion	14.970	142724	0.4655
Ronnel	15.427	117028	0.4767
Malathion	16.080	102847	0.4817
Fenthion	16.377	108856	0.4859
Chlorpyrifos/Parathion	16.460	257571	0.9148
Trichloronate	16.900	109675	0.4364
Stirifos	18.550	74473	0.5060
Tokuthion	19.097	105855	0.4740
Merphos	19.240	82466	0.4503
Fensulfothion	20.263	62942	0.5070
Bolstar	20.793	119221	0.5111
EPN	22.587	111352	0.5246
Guthion	23.450	100857	0.5462
Coumaphos	25.057	84440	0.5670

Worklist: 7229 Worklist format: opstsext
Created on: 4/28/00 by: C.Cothron

OP Pest Sol.

	Log number	Due Date	Due Time	Target Date	Project
1.	blank 12302 SBP				
2.	00-A58004 1-4	5/15/00		5/ 8/00	189955
3.	00-A58005 VOA	5/15/00		5/ 8/00	189955
4.	00-A58006	5/15/00		5/ 8/00	189955
5.	00-A58007	5/15/00		5/ 8/00	189955
6.	00-A58008	5/15/00		5/ 8/00	189955
7.	00-A58009	5/15/00		5/ 8/00	189955
8.	00-A58010	5/15/00		5/ 8/00	189955
9.	00-A58011	5/15/00		5/ 8/00	189955
10.	00-A58012	5/15/00		5/ 8/00	189955
11.	00-A58013	5/15/00		5/ 8/00	189955
12.	00-A58073	5/15/00		5/ 8/00	189955
13.	Spike 12305 SSP				
14.	mspkdup 12304 SSP				
15.	known				

#13359 LCS

PERFORMED BY: TA

ENTERED BY: [illegible]

VERIFIED BY: [illegible]

FINAL APPROVAL [illegible]

ORGANOPHOSPHORUS PESTICIDES SOIL EXTRACTIONS

**** Must be run by soxhlet without florisil clean-up. ****

Worklist #: 7229 Date Created: 4/28/00

Analyst: C.Cothron Date Extracted: 5/2/00 PA

Batch #: _____ Surrogate #: _____ Amt: _____

Spike #: _____ Amt: _____

P	s	Sample ID	Grams Extracted	Ext Vol
		1.blank	Blank ID: _____	
		Pest Ext :	10.0	10.0
		2.00-A58004		
		Pest Ext :	10.46	
		ALSO ADD 1,2-DCPE		
		3.00-A58005		
		Pest Ext :	10.51	
		ALSO ADD 1,2-DCPE		
		4.00-A58006		
		Pest Ext :	9.87	
		ALSO ADD 1,2-DCPE		

ORGANOPHOSPHORUS PESTICIDES SOIL EXTRACTIONS

* Must be run by soxhlet without florisil clean-up. ****

Worklist #: 7229 Date Created: 4/28/00

A alyst: C.Cothron Date Extracted:

Batch #: _____ Surrogate #: _____ Amt: _____

Spike #: _____ Amt: _____

F s	Sample ID	Grams Extracted	Ext Vol
	5.00-A58007		
	Pest Ext :	10.31	10.0
	ALSO ADD 1,2-DCPE		
	6.00-A58008		
	est Ext :	10.70	
	ALSO ADD 1,2-DCPE		
	7.00-A58009		
	Pest Ext :	10.65	
	ALSO ADD 1,2-DCPE		
	8.00-A58010		
	Pest Ext :	10.87	
	ALSO ADD 1,2-DCPE		

ORGANOPHOSPHORUS PESTICIDES SOIL EXTRACTIONS

*** Must be run by soxhlet without florisil clean-up. ****

Worklist #: 7229 Date Created: 4/28/00

Analyst: C.Cothron Date Extracted:

Batch #: _____ Surrogate #: _____ Amt: _____

Spike #: _____ Amt: _____

Pos	Sample ID	Grams Extracted	Ext Vol
13.Spike	Spike ID: C	Original sample: 2	
Pest Ext :		10.60	10.0
14.mspkdup	MSD ID:	Original sample: 13	
Pest Ext :		9.97	
15.known	Known ID:		
Pest Ext :		10.0	

ORGANOPHOSPHORUS PESTICIDES SOIL EXTRACTIONS

**** Must be run by soxhlet without florisil clean-up. ****

Worklist #: 7229 Date Created: 4/28/00

Analyst: C.Cothron Date Extracted:

Batch #: _____ Surrogate #: _____ Amt: _____

Spike #: _____ Amt: _____

P s	Sample ID	Grams Extracted	Ext Vol
	9.00-A58011		
	Pest Ext :	C 10.05	10.0
	ALSO ADD 1,2-DCPE		
	10.00-A58012		
	Pest Ext :	10.21	
	ALSO ADD 1,2-DCPE		
	11.00-A58013		
	Pest Ext :	10.0	
	ALSO ADD 1,2-DCPE		
	12.00-A58073		
	Pest Ext :	10.61	

GP Rest

METHYLENE CHLORIDE: P5D019-2
ACETONE:
HEXANE: P5D016-3
DIETHYL ETHER:
1,1,2-TRICHLOROTRIFLUOROETHANE (freon):
METHANOL:
ACETONITRILE:
SILICA GEL:
TOLUENE:
SODIUM CHLORIDE:
PENTANE:
FLORISIL:
SODIUM HYDROXIDE:
SULFURIC ACID:
SODIUM SULFATE(anhydrous): P5C018-3
HYDROCHLORIC ACID:
EDTA:
BORON TRIFLUORIDE/METHANOL(BF-3):
SODIUM SULFATE (aqueous):
POTASSIUM HYDROXIDE(37%):
SULFURIC ACID(25%):
HEXANE/ACETONE MIX (70:30):

SURROGATE: YWMC230-5 → 1.0 ml TA

SPIKE: P4RF11-1 P4RF11-2 > 25 µL

LCS:

Oil and Grease Water Bath Temperature:

Soxhlet Extraction Start Time:———— Finish Time:————

pH adjustment: NaOH addition:———— Sulfuric Acid addition:————

Secondary verification of Samples, Spike, Surrogate, LCS and extraction date by: 5/2/00 BBM

Sequence Summary Report

Sequence : C:\EZChrom Elite\Sequence\050400v.seq
User : None
Created : 5/6/2000 09:48:50

Start Time	**NPD A -- DB XLB**
Sample ID	op 0.5 (4-w-mc-195-3)
Filename	C:\EZChrom Elite\Varian5\Public\050400v.024
Date	5/5/2000 06:08:16

Start Time	**NPD A -- DB XLB**
Sample ID	12302 sbp
Filename	C:\EZChrom Elite\Varian5\Public\050400v.025
Date	5/5/2000 06:43:09

Start Time	**NPD A -- DB XLB**
Sample ID	12303 ssp
Filename	C:\EZChrom Elite\Varian5\Public\050400v.026
Date	5/5/2000 07:17:58

Start Time	**NPD A -- DB XLB**
Sample ID	12304 ssp
Filename	C:\EZChrom Elite\Varian5\Public\050400v.027
Date	5/5/2000 07:52:49

Start Time	**NPD A -- DB XLB**
Sample ID	13359 lcs
Filename	C:\EZChrom Elite\Varian5\Public\050400v.028
Date	5/5/2000 08:27:38

Start Time	**NPD A -- DB XLB**
Sample ID	58004
Filename	C:\EZChrom Elite\Varian5\Public\050400v.029
Date	5/5/2000 09:02:31

Start Time	**NPD A -- DB XLB**
Sample ID	58005
Filename	C:\EZChrom Elite\Varian5\Public\050400v.030
Date	5/5/2000 09:37:21

Start Time	**NPD A -- DB XLB**
Sample ID	58006

Sequence Summary Report

Sequence : C:\EZChrom Elite\Sequence\050400v.seq
User : None
Created : 5/6/2000 09:48:50

Filename	C:\EZChrom Elite\Varian5\Public\050400v.031
Date	5/5/2000 10:12:14

Start Time	**NPD A -- DB XLB**
Sample ID	58007
Filename	C:\EZChrom Elite\Varian5\Public\050400v.032
Date	5/5/2000 10:47:02

Start Time	**NPD A -- DB XLB**
Sample ID	58008
Filename	C:\EZChrom Elite\Varian5\Public\050400v.033
Date	5/5/2000 11:22:01

Start Time	**NPD A -- DB XLB**
Sample ID	58009
Filename	C:\EZChrom Elite\Varian5\Public\050400v.034
Date	5/5/2000 11:56:53

Start Time	**NPD A -- DB XLB**
Sample ID	op 0.5 (4-w-mc-195-3)
Filename	C:\EZChrom Elite\Varian5\Public\050400v.035
Date	5/5/2000 12:31:49

Start Time	**NPD A -- DB XLB**
Sample ID	58010
Filename	C:\EZChrom Elite\Varian5\Public\050400v.036
Date	5/5/2000 13:06:42

Start Time	**NPD A -- DB XLB**
Sample ID	58011
Filename	C:\EZChrom Elite\Varian5\Public\050400v.037
Date	5/5/2000 13:41:39

Start Time	**NPD A -- DB XLB**
Sample ID	58012
Filename	C:\EZChrom Elite\Varian5\Public\050400v.038
Date	5/5/2000 14:16:30

Sequence Summary Report

Sequence : C:\EZChrom Elite\Sequence\050400v.seq
User : None
Printed : 5/6/2000 09:48:50

Start Time	**NPD A -- DB XLB**
Sample ID	58013
Filename	C:\EZChrom Elite\Varian5\Public\050400v.039
Date	5/5/2000 14:51:29

Start Time	**NPD A -- DB XLB**
Sample ID	59073
Filename	C:\EZChrom Elite\Varian5\Public\050400v.040
Date	5/5/2000 16:34:32

Start Time	**NPD A -- DB XLB**
Sample ID	op 0.5 (4-w-mc-195-3)
Filename	C:\EZChrom Elite\Varian5\Public\050400v.041
Date	5/5/2000 17:09:30

Start Time	**NPD A -- DB XLB**
Sample ID	
Filename	
Date	
	Min
	0.00

Start Time	**NPD A -- DB XLB**
Sample ID	
Filename	
Date	
	Max
	0.00

Start Time	**NPD A -- DB XLB**
Sample ID	
Filename	
Date	
	Mean
	0.00

Start Time	**NPD A -- DB XLB**
Sample ID	
Filename	
Date	
	Std Dev
	0.000

Sequence Summary Report

Sequence : C:\EZChrom Elite\Sequence\050400v.seq
V[illegible] : None
[illegible]ted : 5/6/2000 09:48:50

Start Time **Sample ID** **Filename** **Date**	**NPD A -- DB XLB** **%RSD**
	0.000

HERBICIDES by SW846/8151A

SUMMARY DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

BLANK

Matrix: Soil
% Dry Weight: 100
Units: UG/KG
Dilution Factor: 1
Analysis Method: SW8151
Delivery Group: 189955
Instrument: SHIMADZU-3
Grams Extracted: 30.0 g
Extract Vol: 10.0 ml

Lab Sample ID: BLANK
Date Sampled:
Date Received:
Analysis Date: 5/ 9/00
Analysis Time: 17:08
Sample QC Group: 2328

Extraction Date: 5/ 1/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION Col#1	Flag	Col#2	Flag
94-75-7	2,4-D	167	U	167	U
93-76-5	2,4,5-T	17	U	17	U
93-72-1	2,4,5-TP (Silvex)	17	U	17	U
75-99-0	Dalapon	333	U	333	U
94-82-6	2,4-DB	167	U	167	U
1918-00-9	Dicamba	17	U	17	U
120-36-5	Dichloroprop	167	U	167	U
88-85-7	Dinoseb	83	U	83	U
94-74-6	MCPA	16700	U	16700	U
7085-19-0	MCPP	16700	U	16700	U
87-86-5	Pentachlorophenol	17	U	17	U
87-86-5	4-Nitrophenol	17	U	17	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264716

Matrix: Soil
% Dry Weight: 87.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8151A
Delivery Group: 189955
Instrument: SHIMADZU-3
Grams Extracted: 31. g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58004
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 9/00
Analysis Time: 19:11
Sample QC Group: 2328

Extraction Date: 5/ 1/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
94-75-7	2,4-D	185	U
93-76-5	2,4,5-T	18.4	U
93-72-1	2,4,5-TP (Silvex)	18.5	U
75-99-0	Dalapon	371	U
94-82-6	2,4-DB	185	U
1918-00-9	Dicamba	18.5	U
120-36-5	Dichloroprop	185	U
88-85-7	Dinoseb	92.6	U
94-74-6	MCPA	18500	U
7085-19-0	MCPP	18500	U
87-86-5	Pentachlorophenol	18.5	U
87-86-5	4-Nitrophenol	18.5	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264717

Matrix: Soil
% Dry Weight: 57.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8151A
Delivery Group: 189955
Instrument: SHIMADZU-3
Grams Extracted: 30. g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58005
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 9/00
Analysis Time: 19:42
Sample QC Group: 2328

Extraction Date: 5/ 1/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
94-75-7	2,4-D	292	U
93-76-5	2,4,5-T	29.8	U
93-72-1	2,4,5-TP (Silvex)	29.3	U
75-99-0	Dalapon	585	U
94-82-6	2,4-DB	293	U
1918-00-9	Dicamba	29.3	U
120-36-5	Dichloroprop	293	U
88-85-7	Dinoseb	146	U
94-74-6	MCPA	29300	U
7085-19-0	MCPP	29300	U
87-86-5	Pentachlorophenol	29.3	U
87-86-5	4-Nitrophenol	29.3	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264718

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8151A
Delivery Group: 189955
Instrument: SHIMADZU-3
Grams Extracted: 31. g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58006
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 9/00
Analysis Time: 20:12
Sample QC Group: 2328

Extraction Date: 5/ 1/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
94-75-7	2,4-D	192	U
93-76-5	2,4,5-T	19	U
93-72-1	2,4,5-TP (Silvex)	19.2	U
75-99-0	Dalapon	384	U
94-82-6	2,4-DB	192	U
1918-00-9	Dicamba	19.2	U
120-36-5	Dichloroprop	192	U
88-85-7	Dinoseb	96	U
94-74-6	MCPA	19200	U
7085-19-0	MCPP	19200	U
87-86-5	Pentachlorophenol	19.2	U
87-86-5	4-Nitrophenol	19.2	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264719

Matrix: Soil
% Dry Weight: 81.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8151A
Delivery Group: 189955
Instrument: SHIMADZU-3
Grams Extracted: 30. g
Extract Vol: 10.0 ml

Lab Sample ID: GO-A58007
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 9/00
Analysis Time: 20:43
Sample QC Group: 2328

Extraction Date: 5/ 1/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
94-75-7	2,4-D	206	U
93-76-5	2,4,5-T	21	U
93-72-1	2,4,5-TP (Silvex)	20.6	U
75-99-0	Dalapon	411	U
94-82-6	2,4-DB	206	U
1918-00-9	Dicamba	20.6	U
120-36-5	Dichloroprop	206	U
88-85-7	Dinoseb	103	U
94-74-6	MCPA	20600	U
7085-19-0	MCPP	20600	U
87-86-5	Pentachlorophenol	20.6	U
87-86-5	4-Nitrophenol	20.6	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264720

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8151A
Delivery Group: 189955
Instrument: SHIMADZU-3
Grams Extracted: 30. g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58008
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 9/00
Analysis Time: 21:14
Sample QC Group: 2328

Extraction Date: 5/ 1/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
94-75-7	2,4-D	198	U
93-76-5	2,4,5-T	20.2	U
93-72-1	2,4,5-TP (Silvex)	19.9	U
75-99-0	Dalapon	397	U
94-82-6	2,4-DB	199	U
1918-00-9	Dicamba	19.9	U
120-36-5	Dichloroprop	199	U
88-85-7	Dinoseb	99.2	U
94-74-6	MCPA	19900	U
7085-19-0	MCPP	19900	U
87-86-5	Pentachlorophenol	19.9	U
87-86-5	4-Nitrophenol	19.9	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264721

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8151A
Delivery Group: 189955
Instrument: SHIMADZU-3
Grams Extracted: 30. g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58009
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 9/00
Analysis Time: 21:45
Sample QC Group: 2328

Extraction Date: 5/ 1/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
94-75-7	2,4-D	198	U
93-76-5	2,4,5-T	20.2	U
93-72-1	2,4,5-TP (Silvex)	19.9	U
75-99-0	Dalapon	397	U
94-82-6	2,4-DB	199	U
1918-00-9	Dicamba	19.9	U
120-36-5	Dichloroprop	199	U
88-85-7	Dinoseb	99.2	U
94-74-6	MCPA	19900	U
7085-19-0	MCPP	19900	U
87-86-5	Pentachlorophenol	19.9	U
87-86-5	4-Nitrophenol	19.9	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264722

Matrix: Soil
% Dry Weight: 86.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8151A
Delivery Group: 189955
Instrument: SHIMADZU-3
Grams Extracted: 30. g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58010
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 9/00
Analysis Time: 22:46
Sample QC Group: 2328

Extraction Date: 5/ 1/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
94-75-7	2,4-D	194	U
93-76-5	2,4,5-T	19.8	U
93-72-1	2,4,5-TP (Silvex)	19.4	U
75-99-0	Dalapon	388	U
94-82-6	2,4-DB	194	U
1918-00-9	Dicamba	19.4	U
120-36-5	Dichloroprop	194	U
88-85-7	Dinoseb	96.9	U
94-74-6	MCPA	19400	U
7085-19-0	MCPP	19400	U
87-86-5	Pentachlorophenol	19.4	U
87-86-5	4-Nitrophenol	19.4	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264723

Matrix: Soil
% Dry Weight: 87.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8151A
Delivery Group: 189955
Instrument: SHIMADZU-3
Grams Extracted: 30. g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58011
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 9/00
Analysis Time: 23:17
Sample QC Group: 2328

Extraction Date: 5/ 1/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
94-75-7	2,4-D	192	U
93-76-5	2,4,5-T	19.5	U
93-72-1	2,4,5-TP (Silvex)	19.2	U
75-99-0	Dalapon	383	U
94-82-6	2,4-DB	192	U
1918-00-9	Dicamba	19.2	U
120-36-5	Dichloroprop	192	U
88-85-7	Dinoseb	95.7	U
94-74-6	MCPA	19200	U
7085-19-0	MCPP	19200	U
87-86-5	Pentachlorophenol	19.2	U
87-86-5	4-Nitrophenol	19.2	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264724

Matrix: Soil
% Dry Weight: 81.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8151A
Delivery Group: 189955
Instrument: SHIMADZU-3
Grams Extracted: 31. g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58012
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 9/00
Analysis Time: 23:48
Sample QC Group: 2328

Extraction Date: 5/ 1/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
94-75-7	2,4-D	199	U
93-76-5	2,4,5-T	19.8	U
93-72-1	2,4,5-TP (Silvex)	19.9	U
75-99-0	Dalapon	398	U
94-82-6	2,4-DB	199	U
1918-00-9	Dicamba	19.9	U
120-36-5	Dichloroprop	199	U
88-85-7	Dinoseb	99.5	U
94-74-6	MCPA	19900	U
7085-19-0	MCPP	19900	U
87-86-5	Pentachlorophenol	19.9	U
87-86-5	4-Nitrophenol	19.9	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264725

Matrix: Soil
% Dry Weight: 57.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8151A
Delivery Group: 189955
Instrument: SHIMADZU-3
Grams Extracted: 31. g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58013
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/10/00
Analysis Time: 0:18
Sample GC Group: 2328

Extraction Date: 5/ 1/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
94-75-7	2,4-D	283	U
93-76-5	2,4,5-T	28.1	U
93-72-1	2,4,5-TP (Silvex)	28.2	U
75-99-0	Dalapon	566	U
94-82-6	2,4-DB	282	U
1918-00-9	Dicamba	28.2	U
120-36-5	Dichloroprop	282	U
88-85-7	Dinoseb	141	U
94-74-6	MCPA	28200	U
7085-19-0	MCPP	28200	U
87-86-5	Pentachlorophenol	28.2	U
87-86-5	4-Nitrophenol	28.2	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264726

Matrix: Soil
% Dry Weight: 72.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8151A
Delivery Group: 189955
Instrument: SHIMADZU-3
Grams Extracted: 31. g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58073
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/10/00
Analysis Time: 0:49
Sample QC Group: 2328

Extraction Date: 5/ 1/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
94-75-7	2,4-D	224	U
93-76-5	2,4,5-T	22.2	U
93-72-1	2,4,5-TP (Silvex)	22.4	U
75-99-0	Dalapon	448	U
94-82-6	2,4-DB	224	U
1918-00-9	Dicamba	22.4	U
120-36-5	Dichloroprop	224	U
88-85-7	Dinoseb	112	U
94-74-6	MCPA	22400	U
7085-19-0	MCPP	22400	U
87-86-5	Pentachlorophenol	22.4	U
87-86-5	4-Nitrophenol	22.4	U

COPY 1

2Y
SOIL HERBICIDE SURROGATE RECOVERY

Lab Name : Specialized Assays
Lab Code : SASSAYS SDG : 189955

Instrument ID : Shimadzu3
GC Column (1) : RTX - CLPesticides ID : 30 m X 0.32 mm
GC Column (2) : RTX - CLPesticidesII ID : 30 m X 0.32 mm

	Lab Sample ID	DCAA (1)#	DCAA (2)#	Total Out
		% Recovery		
1	PBLK01	76	91	0
2	264720MS	66	79	0
3	264720MSD	68	77	0
4	CONTROLS	78	91	0
5	264716	101	85	0
6	264717	46	53	0
7	264718	70	73	0
8	264719	62	70	0
9	264720	51	58	0
10	264721	53	60	0
11	264721	53	63	0
12	264722	65	76	0
13	264723	67	77	0
14	264724	65	71	0
15	264725	58	71	0
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

QC LIMITS
DCAA = 2,4-Dichlorophenyl Acetic Acid 20 140

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM II HERB

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

FORM 3J

PESTICIDES MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab: Specialized Assays, Inc. Project:

Matrix Spike Sample: QC Group: 2328

SDG: 189955

Compound	Spike Added	Sample Conc	Spike Conc	% Rec	QC Limits
2,4-D	0.167	0	0.119	71.6	38 - 151
2,4,5-T	0.167	0	0.114	68.3	38 - 147
2,4,5-TP (Silvex)	0.167	0	0.105	62.8	29 - 141
Dalapon	0.167	0	0.028	16.8	10 - 172
2,4-DB	0.167	0	0.123	73.7	22 - 152
Dicamba	0.167	0	0.091	54.5	32 - 147
Dichloroprop	0.167	0	0.11	65.9	46 - 127
Dinoseb	0.167	0	0.013	8#	37 - 152
MCPA	16.7	0	10.5	62.9	44 - 124
MCPP	16.7	0	8.57	51#	56 - 134

Compound	Spike Added	MSD Conc	% Rec	RPD	RPD Limit	Recovery Limits
2,4-D	0.167	0.114	68.3	4.63	40	38 - 151
2,4,5-T	0.167	0.115	68.9	0.873	52	38 - 147
2,4,5-TP (Silvex)	0.167	0.104	62.3	0.767	57	29 - 141
Dalapon	0.167	0.007	4.08#	122#	95	10 - 172
2,4-DB	0.167	0.123	73.7	0	42	22 - 152
Dicamba	0.167	0.09	53.7	1.44	64	32 - 147
Dichloroprop	0.167	0.108	64.7	1.83	37	46 - 127
Dinoseb	0.167	0.002	1.14#	150#	63	37 - 152
MCPA	16.7	9.94	59.5	5.48	61	44 - 124
MCPP	16.7	7.71	46.2#	10.6	49	56 - 134

Concentration Units: mg/kg

RPD: 2 out of 10 outside QC limits.
Spike Recoveries: 5 out of 20 outside QC limits.

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

FORM 3Ja

NEMBIC 1223 LABORATORY CONTROL RECOVERY

Lab: Specialized Assays, Inc. Project:

SDG: 187955 QC Group: 2328

Compound	Known Value	Conc	% Rec	QC Limits
2,4-D	167	160	96	28-139
2,4,5-T	167	159	95	25-140
2,4,5-TP (Silvex)	167	150	90	10-178
Dalapon	167	15	9#	10-244
2,4-DB	167	180	108	24-172
Dicamba	167	159	95	23-144
Dichloroprop	167	144	86	36-136
Dinoseb	167	1	1#	10-132
MCPA	16700	14000	84	17-159
MCPP	16700	12800	77	24-139
Pentachlorophenol	167	147	88	27-133
4-Nitrophenol	167	132	79	10-132

Concentration Units: ug/kg

Recoveries: 2 out of 12 outside QC limits.

4Y
METHOD BLANK SUMMARY

PBLK01

Lab Name : Specialized Assays
Lab Code : SASSAYS SDG : 189955
Lab Sample ID : 12308sbh Lab File ID : 050900s.010
Matrix : Soil Extraction : Sonc.
Date Analyzed (1) : 5/9/00 Date Analyzed (2) : 5/9/00
Time Analyzed (1) : 17:08 Time Analyzed (2) : 17:08
Instrument ID (1) : Shimadzu3 Instrument ID (2) : Shimadzu3
GC Column (1) : RTX - CLPesticides GC Column (2) : RTX - CLPesticidesII
Column ID (1) : 30 m X 0.32 mm Column ID (2) : 30 m X 0.32 mm
Date Extracted : 5/1/00

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	Client ID	Lab ID	Date Analyzed	Time Analyzed
1	264720MS	12309ssh	5/9/00	17:39
2	264720MSD	12310ssh	5/9/00	18:09
3	CONTROLS	13361lcs	5/9/00	18:40
4	264716	58004	5/9/00	19:11
5	264717	58005	5/9/00	19:42
6	264718	58006	5/9/00	20:12
7	264719	58007	5/9/00	20:43
8	264720	58008	5/9/00	21:14
9	264721	58009	5/9/00	21:45
10	264721	58010	5/9/00	22:46
11	264722	58011	5/9/00	23:17
12	264723	58012	5/9/00	23:48
13	264724	58013	5/10/00	00:18
14	264725	58073	5/10/00	00:49
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

6Y

HERBICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name : Specialized Assays
Lab Code : SASSAYS SDG : 189955
Instrument ID : Shimadzu3

GC Column (1) : RTX - CLPesticides ID : 30 m X 0.32 mm
Date(s) Analyzed : 5/9/00 5/9/00

Compound	RT of STANDARDS					MEAN	RT WINDOW(MIN)	
	0.05	0.2	0.5	0.7	1.0	RT	FROM	TO
Dalapon	4.03	4.02	4.01	4.01	4.01	4.02	3.97	4.07
4-Nitrophenol	12.23	12.21	12.20	12.18	12.18	12.20	12.15	12.25
Dicamba	12.93	12.92	12.91	12.90	12.90	12.91	12.86	12.96
MCPP	13.25	13.24	13.23	13.21	13.21	13.23	13.18	13.28
MCPA	13.51	13.50	13.49	13.48	13.47	13.49	13.44	13.54
Dichloroprop	14.14	14.13	14.11	14.10	14.09	14.11	14.06	14.16
2,4-D	14.54	14.52	14.49	14.48	14.47	14.50	14.45	14.55
Pentachlorophenol	14.96	14.95	14.95	14.94	15.00	14.96	14.91	15.01
2,4,5-TP (Silvex)	15.83	15.81	15.79	15.79	15.78	15.80	15.75	15.85
2,4,5-T	16.28	16.25	16.23	16.22	16.22	16.24	16.19	16.29
2,4-DB	17.05	17.03	17.00	16.99	16.99	17.01	16.96	17.06
Dinoseb	18.17	18.15	18.12	18.11	18.10	18.13	18.08	18.18
Picloram	18.55	18.53	18.52	18.51	18.51	18.52	18.47	18.57
DCAA	12.60	12.59	12.58	12.57	12.57	12.58	12.53	12.63

GC Column (2) : RTX - CLPesticidesII ID : 30 m X 0.32 mm
Date(s) Analyzed : 5/9/00 5/9/00

Compound	RT of STANDARDS					MEAN	RT WINDOW(MIN)	
	0.05	0.2	0.5	0.7	1.0	RT	FROM	TO
Dalapon	4.11	4.10	4.09	4.09	4.09	4.10	4.05	4.15
4-Nitrophenol	12.19	12.18	12.16	12.15	12.14	12.16	12.11	12.21
MCPP	13.51	13.50	13.49	13.47	13.47	13.49	13.44	13.54
Dicamba	13.34	13.33	13.31	13.30	13.29	13.31	13.26	13.36
MCPA	13.91	13.90	13.89	13.87	13.87	13.89	13.84	13.94
Dichloroprop	14.46	14.45	14.44	14.42	14.42	14.44	14.39	14.49
2,4-D	14.97	14.96	14.94	14.92	14.92	14.94	14.89	14.99
Pentachlorophenol	15.64	15.63	15.61	15.60	15.60	15.61	15.56	15.66
2,4,5-TP (Silvex)	16.19	16.17	16.15	16.14	16.14	16.16	16.11	16.21
2,4,5-T	16.77	16.75	16.73	16.71	16.71	16.73	16.68	16.78
Dinoseb	17.47	17.46	17.44	17.42	17.42	17.44	17.39	17.49
2,4-DB	16.89	16.87	16.85	16.83	16.83	16.85	16.80	16.90
Picloram	19.32	19.31	19.29	19.28	19.27	19.29	19.24	19.34
DCAA	13.02	13.01	13.00	12.98	12.98	13.00	12.95	13.05

Retention time windows are +/- 0.05 minutes for all compounds.

6Z

HERBICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name : Specialized Assays
Lab Code : SASSAYS SDG : 189955
Instrument ID : Shimadzu3

GC Column (1) : RTX - CLPesticides ID : 30 m X 0.32 mm
Date(s) Analyzed : 5/9/00 5/9/00

Compound	CALIBRATION FACTORS					MEAN	% RSD
	0.05	0.2	0.5	0.7	1.0		
Dalapon	1.050E-6	1.486E-6	1.684E-6	1.794E-6	1.831E-6	1.569E-6	20.39
4-Nitrophenol	4.545E-6	4.746E-6	4.415E-6	4.570E-6	4.722E-6	4.600E-6	2.96
Dicamba	8.046E-7	8.776E-7	8.470E-7	8.394E-7	7.934E-7	8.324E-7	4.07
MCPP	8.691E-6	6.148E-6	6.033E-6	6.076E-6	5.961E-6	6.582E-6	17.94
MCPA	5.701E-6	4.627E-6	4.688E-6	4.740E-6	4.639E-6	4.879E-6	9.46
Dichloroprop	2.166E-6	2.301E-6	2.392E-6	2.484E-6	2.478E-6	2.364E-6	5.65
2,4-D	2.669E-6	2.391E-6	2.333E-6	2.443E-6	2.451E-6	2.458E-6	5.18
Pentachlorophenol	2.763E-7	2.584E-7	1.968E-7	1.667E-7	6.384E-8	1.924E-7	43.94
2,4,5-TP (Silvex)	6.493E-7	6.290E-7	5.987E-7	5.907E-7	5.397E-7	6.015E-7	6.94
2,4,5-T	4.522E-7	4.467E-7	4.529E-7	4.551E-7	4.361E-7	4.486E-7	1.71
2,4-DB	3.258E-6	4.185E-6	3.840E-6	3.862E-6	3.730E-6	3.775E-6	8.87
Dinoseb	1.250E-4	7.321E-5	4.728E-5	4.188E-5	3.755E-5	6.498E-5	55.86
Picloram	5.993E-7	6.186E-7	6.138E-7	6.137E-7	5.918E-7	6.074E-7	1.87
DCAA	3.088E-6	2.977E-6	3.011E-6	2.721E-6	2.379E-6	2.835E-6	10.22

Average % RSD : 13.93

GC Column (2) : RTX - CLPesticidesII ID : 30 m X 0.32 mm
Date(s) Analyzed : 5/9/00 5/9/00

Compound	CALIBRATION FACTORS					MEAN	% RSD
	0.05	0.2	0.5	0.7	1.0		
Dalapon	4.071E-6	4.616E-6	4.780E-6	5.252E-6	5.516E-6	4.847E-6	11.63
4-Nitrophenol	9.129E-6	9.676E-6	1.035E-5	1.098E-5	1.119E-5	1.027E-5	8.45
MCPP	1.267E-5	1.067E-5	1.215E-5	1.254E-5	1.299E-5	1.220E-5	7.46
Dicamba	2.367E-6	2.382E-6	2.454E-6	2.563E-6	2.622E-6	2.478E-6	4.52
MCPA	9.020E-6	9.478E-6	1.036E-5	1.099E-5	1.126E-5	1.022E-5	9.39
Dichloroprop	5.505E-6	5.611E-6	5.906E-6	6.204E-6	6.439E-6	5.933E-6	6.62
2,4-D	5.817E-6	5.369E-6	5.602E-6	5.898E-6	6.125E-6	5.762E-6	5.01
Pentachlorophenol	7.604E-7	6.847E-7	7.204E-7	7.464E-7	7.500E-7	7.324E-7	4.16
2,4,5-TP (Silvex)	1.641E-6	1.488E-6	1.487E-6	1.545E-6	1.579E-6	1.548E-6	4.21
2,4,5-T	2.006E-6	1.926E-6	1.882E-6	1.961E-6	1.962E-6	1.947E-6	2.38
Dinoseb	1.453E-5	1.137E-5	1.013E-5	9.732E-6	9.648E-6	1.108E-5	18.48
2,4-DB	1.849E-6	1.725E-6	1.678E-6	1.708E-6	1.744E-6	1.741E-6	3.74
Picloram	1.459E-6	1.290E-6	1.243E-6	1.270E-6	1.250E-6	1.302E-6	6.86
DCAA	7.496E-6	7.264E-6	8.024E-6	7.913E-6	8.189E-6	7.777E-6	4.94

Average % RSD : 6.99

% RSD must be less than or equal 20.0 % for all compounds or the average % RSD for all the compounds must be less than or equal to 20.0 %.

7Y

HERBICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name : Specialized Assays SDG : 189955
Lab Code : SASSAYS

EPA Sample ID : CCV01 Date Analyzed : 5/9/00
Lab Sample ID : 8151 x200 Time Analyzed : 22:16

Instrument ID : Shimadzu3
GC Column (1) : RTX - CLPesticides ID : 30 m X 0.32 mm
Initial Calibration Date(s) : 5/9/00

Compound	RT	RT Window		Calculated Amount	Known Amount	% Diff.
		From	To	(ng)	(ng)	
Dalapon	4.04	3.99	4.09	470	500	-6
4-Nitrophenol	12.22	12.17	12.27	501	500	0
Dicamba	12.94	12.89	12.99	480	500	-4
MCPP	13.25	13.20	13.30	49412	50000	-1
MCPA	13.51	13.46	13.56	49278	50000	-1
Dichloroprop	14.13	14.08	14.18	487	500	-3
2,4-D	14.52	14.47	14.57	524	500	5
Pentachlorophenol	14.97	14.92	15.02	565	500	13
2,4,5-TP (Silvex)	15.82	15.77	15.87	506	500	1
2,4,5-T	16.25	16.20	16.30	526	500	5
2,4-DB	17.03	16.98	17.08	601	500	20 *
Dinoseb	18.53	18.48	18.58	551	500	10
Picloram	18.40	18.35	18.45	492	500	-2

Average % Difference : 6

Instrument ID : Shimadzu3
GC Column (2) : RTX - CLPesticidesII ID : 30 m X 0.32 mm
Initial Calibration Date(s) : 5/9/00

Compound	RT	RT Window		Calculated Amount	Known Amount	% Diff.
		From	To	(ng)	(ng)	
Dalapon	4.12	4.07	4.17	461	500	-8
4-Nitrophenol	11.11	11.06	11.16	482	500	-4
MCPP	13.51	13.46	13.56	48584	50000	-3
Dicamba	13.34	13.29	13.39	484	500	-3
MCPA	13.91	13.86	13.96	45727	50000	-9
Dichloroprop	14.46	14.41	14.51	464	500	-7
2,4-D	14.96	14.91	15.01	499	500	0
Pentachlorophenol	15.63	15.58	15.68	494	500	-1
2,4,5-TP (Silvex)	16.17	16.12	16.22	514	500	3
2,4,5-T	16.75	16.70	16.80	484	500	-3
Dinoseb	17.88	17.83	17.93	495	500	-1
2,4-DB	17.46	17.41	17.51	531	500	6
Picloram	19.30	19.25	19.35	514	500	3

Average % Difference : 4

7Y

HERBICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name : Specialized Assays SDG : 189955
Lab Code : SASSAYS

EPA Sample ID : CCV02 Date Analyzed : 5/10/00
Lab Sample ID : 8151 x200 Time Analyzed : 01:19

Instrument ID : Shimadzu3
GC Column (1) : RTX - CLPesticides ID : 30 m X 0.32 mm
Initial Calibration Date(s) : 5/9/00

Compound	RT	RT Window		Calculated Amount (ng)	Known Amount (ng)	% Diff.
		From	To			
Dalapon	4.06	4.01	4.11	480	500	-4
4-Nitrophenol	12.26	12.21	12.31	502	500	0
Dicamba	12.97	12.92	13.02	475	500	-5
MCPP	13.29	13.24	13.34	48710	50000	-3
MCPA	13.55	13.50	13.60	47724	50000	-5
Dichloroprop	14.17	14.12	14.22	479	500	-4
2,4-D	14.56	14.51	14.61	530	500	6
Pentachlorophenol	15.01	14.96	15.06	558	500	12
2,4,5-TP (Silvex)	15.86	15.81	15.91	499	500	0
2,4,5-T	16.30	16.25	16.35	542	500	8
2,4-DB	17.08	17.03	17.13	596	500	19 *
Dinoseb	18.58	18.53	18.63	579	500	16 *
Picloram	18.45	18.40	18.50	459	500	-8

Average % Difference : 7

Instrument ID : Shimadzu3
GC Column (2) : RTX - CLPesticidesII ID : 30 m X 0.32 mm
Initial Calibration Date(s) : 5/9/00

Compound	RT	RT Window		Calculated Amount (ng)	Known Amount (ng)	% Diff.
		From	To			
Dalapon	4.14	4.09	4.19	453	500	-9
4-Nitrophenol	12.23	12.18	12.28	487	500	-3
MCPP	13.55	13.50	13.60	48163	50000	-4
Dicamba	13.38	13.33	13.43	477	500	-5
MCPA	13.95	13.90	14.00	45347	50000	-9
Dichloroprop	14.50	14.45	14.55	487	500	-3
2,4-D	15.00	14.95	15.05	501	500	0
Pentachlorophenol	15.68	15.63	15.73	491	500	-2
2,4,5-TP (Silvex)	16.22	16.17	16.27	516	500	3
2,4,5-T	16.79	16.74	16.84	470	500	-6
Dinoseb	17.93	17.88	17.98	524	500	5
2,4-DB	17.50	17.45	17.55	600	500	20 *
Picloram	19.35	19.30	19.40	516	500	3

Average % Difference : 5

Sequence Summary Report

Sequence : C:\Chrom231\Sequence\050900s.seq
User : System
Printed : 5/10/2000 15:03:04

Start Time	**ECD A - RTX5**
Sample ID	8151 0.05 (3-s-jc-217-2)(3-s-ah-250-1)
Filename	C:\Chrom231\Shimadzu3\public\050900s.002
Date	5/9/2000 13:02:18

Start Time	**ECD A - RTX5**
Sample ID	8151 0.2 (3-s-jc-217-2)(3-s-ah-250-1)
Filename	C:\Chrom231\Shimadzu3\public\050900s.003
Date	5/9/2000 13:33:03

Start Time	**ECD A - RTX5**
Sample ID	8151 0.5 (3-s-jc-217-2)(3-s-ah-250-1)
Filename	C:\Chrom231\Shimadzu3\public\050900s.004
Date	5/9/2000 14:03:40

Start Time	**ECD A - RTX5**
Sample ID	8151 0.7 (3-s-jc-217-2)(3-s-ah-250-1)
Filename	C:\Chrom231\Shimadzu3\public\050900s.005
Date	5/9/2000 14:34:10

Start Time	**ECD A - RTX5**
Sample ID	8151 1.0 (3-s-jc-217-2)(3-s-ah-250-1)
Filename	C:\Chrom231\Shimadzu3\public\050900s.006
Date	5/9/2000 15:04:57

Start Time	**ECD A - RTX5**
Sample ID	herb verify 0.5 (3-s-jc-178-3)
Filename	C:\Chrom231\Shimadzu3\public\050900s.007
Date	5/9/2000 15:35:47

Start Time	**ECD A - RTX5**
Sample ID	8151 1.0 (3-s-jc-217-2)(3-s-ah-250-1)
Filename	C:\Chrom231\Shimadzu3\public\050900s.008
Date	5/9/2000 16:06:17

Start Time	**ECD A - RTX5**
Sample ID	8151 1.0 (3-s-jc-217-2)(3-s-ah-250-1)

Sequence Summary Report

Sequence : C:\Chrom231\Sequence\050900s.seq
User : System
Printed : 5/10/2000 15:03:04

Filename	C:\Chrom231\Shimadzu3\public\050900s.009
Date	5/9/2000 16:37:20

Start Time	**ECD A - RTX5**
Sample ID	12308sbh
Filename	C:\Chrom231\Shimadzu3\public\050900s.010
Date	5/9/2000 17:08:18

Start Time	**ECD A - RTX5**
Sample ID	12309ssh
Filename	C:\Chrom231\Shimadzu3\public\050900s.011
Date	5/9/2000 17:39:07

Start Time	**ECD A - RTX5**
Sample ID	12310ssh
Filename	C:\Chrom231\Shimadzu3\public\050900s.012
Date	5/9/2000 18:09:54

Start Time	**ECD A - RTX5**
Sample ID	13361lcs
Filename	C:\Chrom231\Shimadzu3\public\050900s.013
Date	5/9/2000 18:40:43

Start Time	**ECD A - RTX5**
Sample ID	58004
Filename	C:\Chrom231\Shimadzu3\public\050900s.014
Date	5/9/2000 19:11:27

Start Time	**ECD A - RTX5**
Sample ID	58005
Filename	C:\Chrom231\Shimadzu3\public\050900s.015
Date	5/9/2000 19:42:15

Start Time	**ECD A - RTX5**
Sample ID	58006
Filename	C:\Chrom231\Shimadzu3\public\050900s.016
Date	5/9/2000 20:12:57

Sequence Summary Report

Sequence : C:\Chrom231\Sequence\050900s.seq
User : System
Printed : 5/10/2000 15:03:04

Start Time	**ECD A - RTX5**
Sample ID	58007
Filename	C:\Chrom231\Shimadzu3\public\050900s.017
Date	5/9/2000 20:43:45

Start Time	**ECD A - RTX5**
Sample ID	58008
Filename	C:\Chrom231\Shimadzu3\public\050900s.018
Date	5/9/2000 21:14:31

Start Time	**ECD A - RTX5**
Sample ID	58009
Filename	C:\Chrom231\Shimadzu3\public\050900s.019
Date	5/9/2000 21:45:15

Start Time	**ECD A - RTX5**
Sample ID	8151 0.5 (3-s-jc-217-2)(3-s-ah-250-1)
Filename	C:\Chrom231\Shimadzu3\public\050900s.020
Date	5/9/2000 22:16:01

Start Time	**ECD A - RTX5**
Sample ID	58010
Filename	C:\Chrom231\Shimadzu3\public\050900s.021
Date	5/9/2000 22:46:50

Start Time	**ECD A - RTX5**
Sample ID	58011
Filename	C:\Chrom231\Shimadzu3\public\050900s.022
Date	5/9/2000 23:17:32

Start Time	**ECD A - RTX5**
Sample ID	58012
Filename	C:\Chrom231\Shimadzu3\public\050900s.023
Date	5/9/2000 23:48:15

Sequence Summary Report

Sequence : C:\Chrom231\Sequence\050900s.seq
User : System
Printed : 5/10/2000 15:03:04

Start Time	**ECD A - RTX5**
Sample ID	58013
Filename	C:\Chrom231\Shimadzu3\public\050900s.024
Date	5/10/2000 00:18:46

Start Time	**ECD A - RTX5**
Sample ID	58073
Filename	C:\Chrom231\Shimadzu3\public\050900s.025
Date	5/10/2000 00:49:18

Start Time	**ECD A - RTX5**
Sample ID	8151 0.5 (3-s-jc-217-2)(3-s-ah-250-1)
Filename	C:\Chrom231\Shimadzu3\public\050900s.026
Date	5/10/2000 01:19:34

Start Time	**ECD A - RTX5**
Sample ID	
Filename	
Date	
	Min
	0.00

Start Time	**ECD A - RTX5**
Sample ID	
Filename	
Date	
	Max
	0.00

Start Time	**ECD A - RTX5**
Sample ID	
Filename	
Date	
	Mean
	0.00

Start Time	**ECD A - RTX5**
Sample ID	
Filename	
Date	
	Std Dev
	0.000

Start Time	**ECD A - RTX5**

Sequence Summary Report

Sequence : C:\Chrom231\Sequence\050900s.seq
User : System
Printed : 5/10/2000 15:03:04

Sample ID Filename Date	%RSD
	0.000

HERBICIDES SW846/8151A

RAW DATA

SPECIALIZED ASSAYS, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264716

Matrix: Soil
% Dry Weight: 87.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8151A
Delivery Group: 189955
Instrument: SHIMADZU-3
Grams Extracted: 31. g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58004
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 9/00
Analysis Time: 19:11
Sample QC Group: 2328

Extraction Date: 5/ 1/00

FORM I

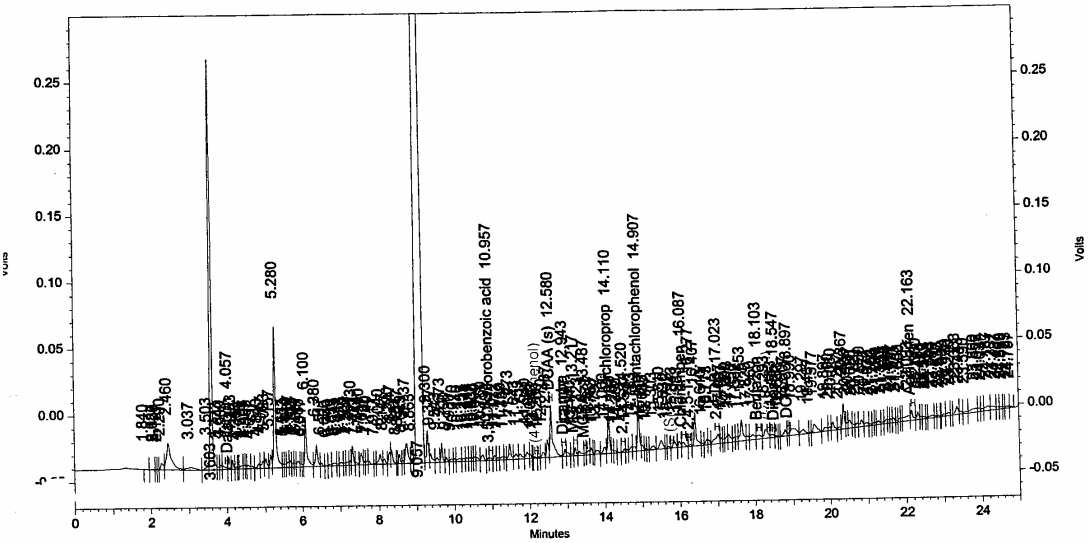
CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
94-75-7	2,4-D	185	U
93-76-5	2,4,5-T	18.4	U
93-72-1	2,4,5-TP (Silvex)	18.5	U
75-99-0	Dalapon	371	U
94-82-6	2,4-DB	185	U
1918-00-9	Dicamba	18.5	U
120-36-5	Dichloroprop	185	U
88-85-7	Dinoseb	92.6	U
94-74-6	MCPA	18500	U
7085-19-0	MCPP	18500	U
87-86-5	Pentachlorophenol	18.5	U
87-86-5	4-Nitrophenol	18.5	U

COPY 1

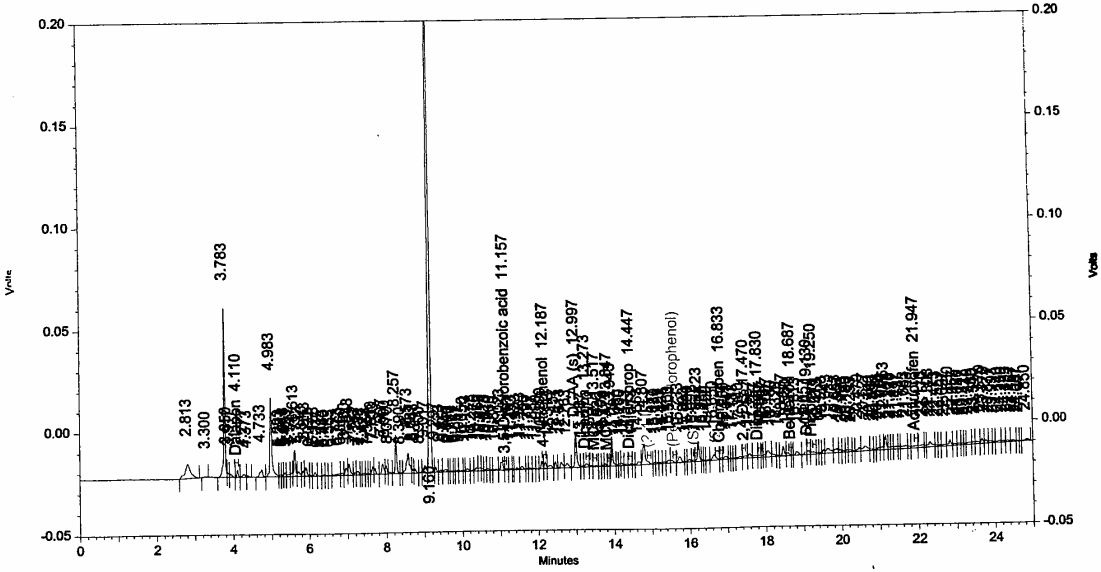
S ecialized Assays, Inc. -- Extractable Organics : Dual ECD Report 482

File Name : C:\Chrom231\Shimadzu3\public\050900s.014
Sample Name : 58004
Acquired : 5/9/2000 19:11:27
Method : C:\Chrom231\Methods\8151clpshimadzu.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)



Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)



S ecialized Assays, Inc. -- Extractable Organics : Dual ECD Report

ile Name : C:\Chrom231\Shimadzu3\public\050900s.014
Sa ple Name : 58004
\q red : 5/9/2000 19:11:27
Methr C:\Chrom231\Methods\8151clpshimadzu.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)

N me	Retention Time	Area	ESTD concentration
D..apon	4.06	5078	0.0000
3,5-Dichlorobenzoic acid	10.96	9394	0.0183
4 litrophenol			0.0000 BDL
D AA (s)	12.58	177405	0.5030
Dicamba	12.94	17528	0.0146
MCPP	13.22	20526	13.5098
M :PA	13.49	5316	2.5936
Dichloroprop	14.11	108588	0.2567
2,4-D	14.52	9368	0.0230
F ntachlorophenol	14.91	116680	0.0262
S vex			0.0000 BDL
Chloramben	16.09	20842	0.0300
2 ',5-T	16.28	5687	0.0026
2 -DB	17.02	56724	0.2141
Bentazon	18.10	23949	0.9371
Picloram			0.0000 BDL
D noseb	18.55	4661	0.0028
D CPA	18.90	5981	0.0028
Acifluorfen	22.16	31704	0.0191

C . B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
D lapon	4.11	7680	0.0372
3,5-Dichlorobenzoic acid	11.16	2927	0.0152
4-Nitrophenol	12.19	11376	0.1168
D CAA (s)	13.00	54617	0.4248
D.camba	13.27	9015	0.0223
MCPP	13.52	3666	4.4736
D CPA	13.85	1101	1.1253
chloroprop	14.45	4010	0.0238
2,4-D			0.0000 BDL
Pentachlorophenol			0.0000 BDL
lvex			0.0000 BDL
2,4,5-T			0.0000 BDL
Chloramben	16.83	3119	0.0054
4-DB	17.47	7552	0.0837
inoseb	17.83	4484	0.0107
Bentazon	18.69	1313	0.0200
CPA	19.13	8896	0.0135
icloram	19.25	9416	0.0123
Acifluorofen	21.95	11049	0.0177

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264717

Matrix: Soil
% Dry Weight: 57.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8151A
Delivery Group: 189955
Instrument: SHIMADZU-3
Grams Extracted: 30. g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58005
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 9/00
Analysis Time: 19:42
Sample GC Group: 2328

Extraction Date: 5/ 1/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
94-75-7	2,4-D	292	U
93-76-5	2,4,5-T	29.8	U
93-72-1	2,4,5-TP (Silvex)	29.3	U
75-99-0	Dalapon	585	U
94-82-6	2,4-DB	293	U
1918-00-9	Dicamba	29.3	U
120-36-5	Dichloroprop	293	U
88-85-7	Dinoseb	146	U
94-74-6	MCPA	29300	U
7085-19-0	MCPP	29300	U
87-86-5	Pentachlorophenol	29.3	U
87-86-5	4-Nitrophenol	29.3	U

COPY 1

S ecialized Assays, Inc. -- Extractable Organics : Dual ECD Report

File Name : C:\Chrom231\Shimadzu3\public\050900s.015
Sa ple Name : 58005
Ac red : 5/9/2000 19:42:15
Meth C:\Chrom231\Methods\8151clpshimadzudoc.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)

N me	Retention Time	Area	ESTD concentration
D lapon	3.98	5996	0.0000
3,5-Dichlorobenzoic acid			0.0000 BDL
4 Nitrophenol	12.23	2097	0.0096
D AA (s)	12.58	80831	0.2292
Dicamba			0.0000 BDL
MCPP	13.20	1689	1.1117
M CPA			0.0000 BDL
Dichloroprop	14.09	2198	0.0052
2,4-D	14.50	3023	0.0074
P ntachlorophenol	14.90	27989	0.0063
S vex			0.0000 BDL
Chloramben			0.0000 BDL
2 4,5-T	16.23	2347	0.0011
2 4-DB	17.03	1746	0.0066
Bentazon	18.10	2609	0.1775
Picloram			0.0000 BDL
D noseb	18.48	42005	0.0255
DCPA	18.91	8544	0.0040
Acifluorfen			0.0000 BDL

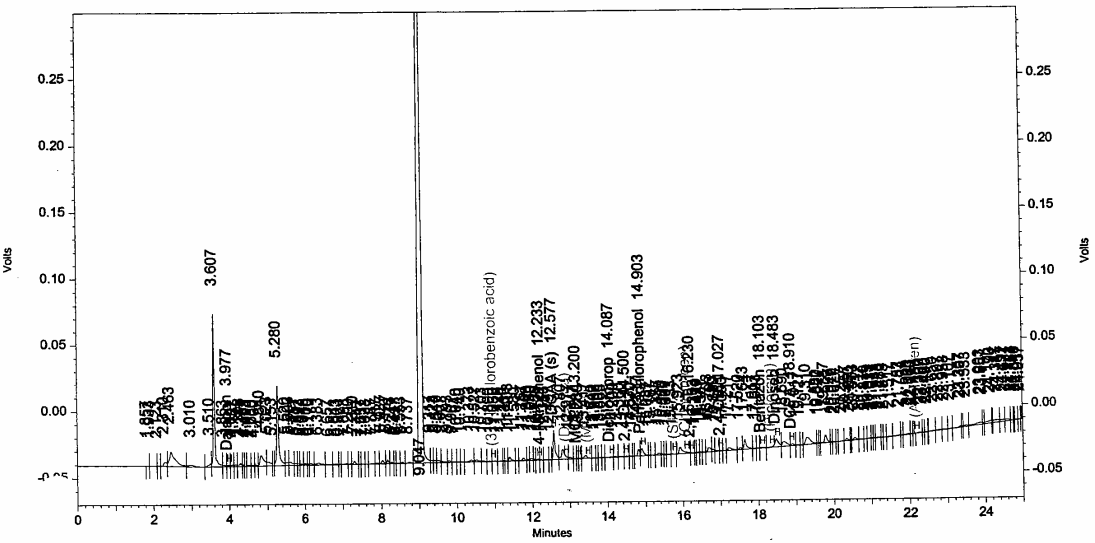
C a l B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
alapon	4.11	667	0.0032
3,5-Dichlorobenzoic acid	11.12	2179	0.0113
4-Nitrophenol			0.0000 BDL
CAA (s)	13.00	34309	0.2668
icamba	13.30	4371	0.0108
MCPP			0.0000 BDL
CPA			0.0000 BDL
ichloroprop			0.0000 BDL
2,4-D			0.0000 BDL
Pentachlorophenol	15.60	1202	0.0009
ilvex	16.19	1539	0.0024
2,4,5-T	16.74	7128	0.0139
Chloramben			0.0000 BDL
,4-DB			0.0000 BDL
inoseb	17.82	6224	0.0148
Bentazon			0.0000 BDL
DCPA	19.11	8097	0.0123
icloram	19.28	21561	0.0281
Acifluorofen			0.0000 BDL

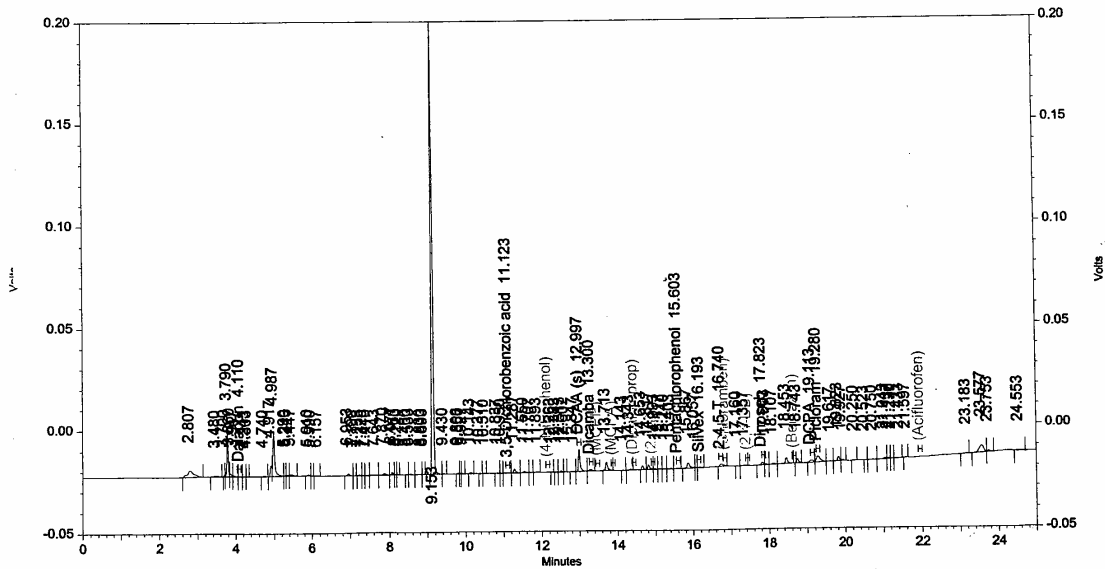
S ecialized Assays, Inc. -- Extractable Organics : Dual ECD Report 485

File Name : C:\Chrom231\Shimadzu3\public\050900s.015
Sample Name : 58005
Acquired : 5/9/2000 19:42:15
Method : C:\Chrom231\Methods\8151clpshimadzudoc.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)



Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)



SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264718

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8151A
Delivery Group: 189955
Instrument: SHIMADZU-3
Grams Extracted: 31. g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58006
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 9/00
Analysis Time: 20:12
Sample GC Group: 2328

Extraction Date: 5/ 1/00

FORM I

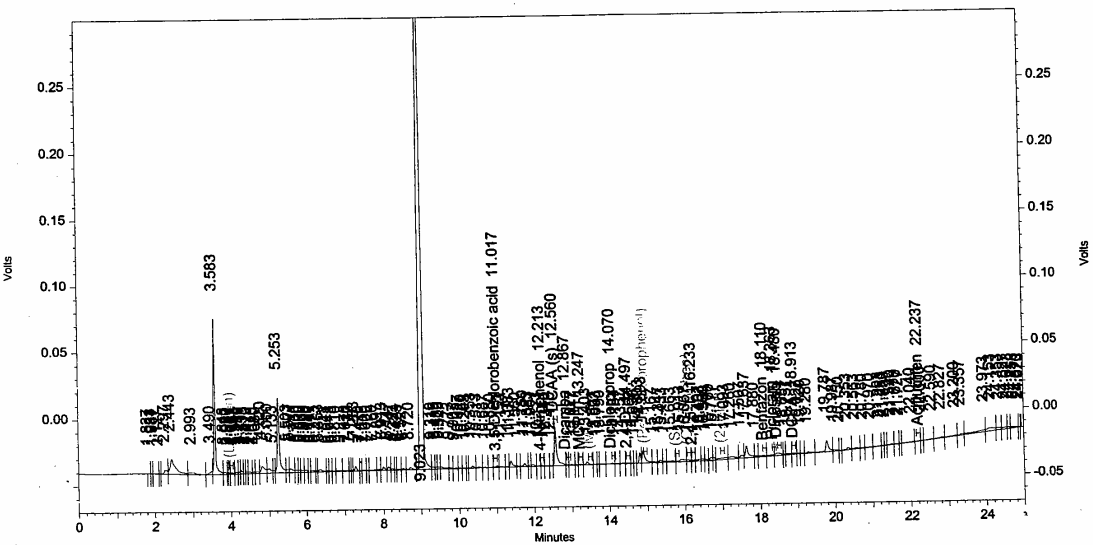
CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
94-75-7	2,4-D	192	U
93-76-5	2,4,5-T	19	U
93-72-1	2,4,5-TP (Silvex)	19.2	U
75-99-0	Dalapon	384	U
94-82-6	2,4-DB	192	U
1918-00-9	Dicamba	19.2	U
120-36-5	Dichloroprop	192	U
88-85-7	Dinoseb	96	U
94-74-6	MCPA	19200	U
7085-19-0	MCPP	19200	U
87-86-5	Pentachlorophenol	19.2	U
87-86-5	4-Nitrophenol	19.2	U

COPY 1

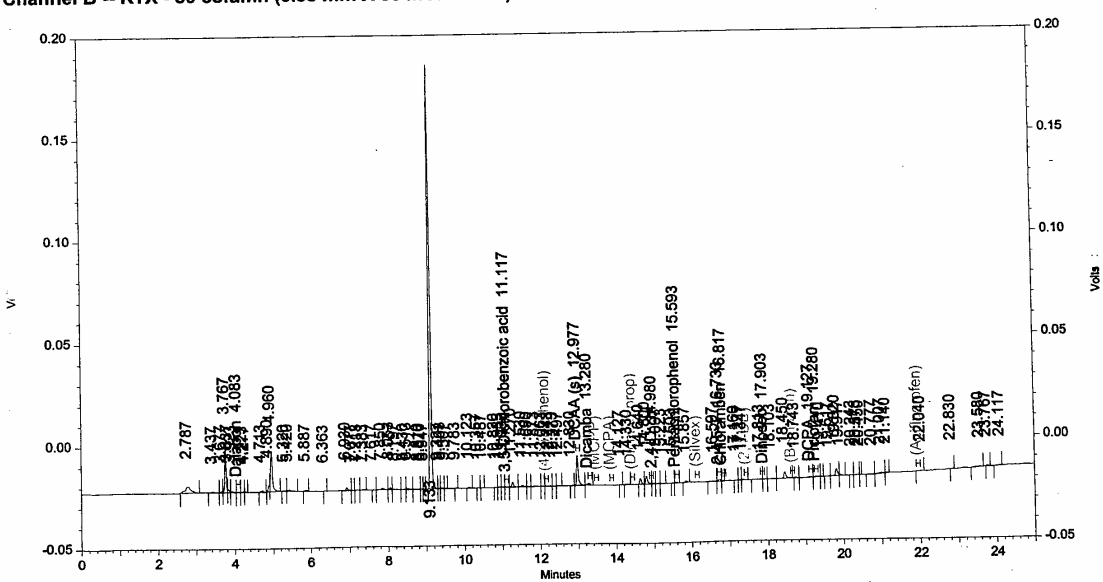
Specialized Assays, Inc. -- Extractable Organics : Dual ECD Report 487

File Name : C:\Chrom231\Shimadzu3\public\050900s.016
Sample Name : 58006
Acquired : 5/9/2000 20:12:57
Method : C:\Chrom231\Methods\8151clpshimadzudoc.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)



Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)



Specialized Assays, Inc. -- Extractable Organics : Dual ECD Report

File Name : C:\Chrom231\Shimadzu3\public\050900s.016
Sample Name : 58006
Acquired : 5/9/2000 20:12:57
Method : C:\Chrom231\Methods\8151clpshimadzudoc.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dalapon			0.0000 BDL
3,5-Dichlorobenzoic acid	11.02	6324	0.0123
4-Nitrophenol	12.21	2891	0.0133
DCAA (s)	12.56	124299	0.3524
Dicamba	12.87	3556	0.0030
MCPP	13.25	3604	2.3721
MCPA			0.0000 BDL
Dichloroprop	14.07	3580	0.0085
2,4-D	14.50	2104	0.0052
Pentachlorophenol			0.0000 BDL
Silvex			0.0000 BDL
Chloramben			0.0000 BDL
2,4,5-T	16.23	6606	0.0030
2,4-DB			0.0000 BDL
Bentazon	18.11	12160	0.5166
Picloram	18.36	9793	0.0070
Dinoseb	18.48	19328	0.0117
DICPA	18.91	6516	0.0031
Acifluorfen	22.24	2636	0.0016

Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dalapon	4.08	1096	0.0053
3,5-Dichlorobenzoic acid	11.12	1442	0.0075
4-Nitrophenol			0.0000 BDL
DCAA (s)	12.98	46871	0.3645
Dicamba	13.28	4771	0.0118
MCPP			0.0000 BDL
MCPA			0.0000 BDL
Dichloroprop			0.0000 BDL
2,4-D	14.98	2018	0.0116
Pentachlorophenol	15.59	1451	0.0011
Silvex			0.0000 BDL
2,4,5-T	16.73	3988	0.0078
Chloramben	16.82	1041	0.0018
2,4-DB			0.0000 BDL
Dinoseb	17.90	1028	0.0024
Bentazon			0.0000 BDL
DICPA	19.13	3706	0.0056
Picloram	19.28	2895	0.0038
Acifluorofen			0.0000 BDL

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264719

Matrix: Soil
% Dry Weight: 81.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8151A
Delivery Group: 189955
Instrument: SHIMADZU-3
Grams Extracted: 30. g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58007
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 9/00
Analysis Time: 20:43
Sample QC Group: 2328

Extraction Date: 5/ 1/00

FORM I

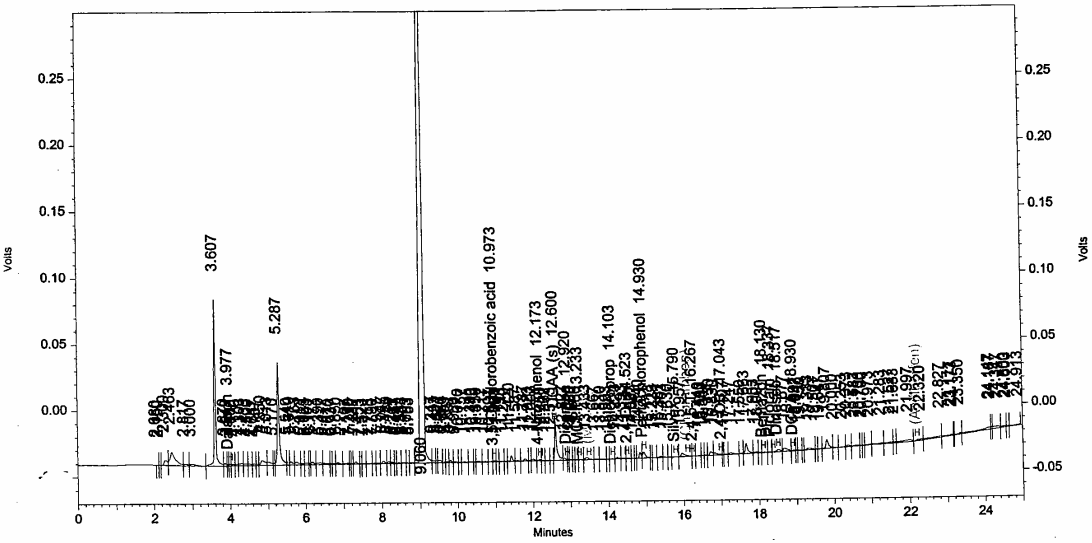
CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
94-75-7	2,4-D	206	U
93-76-5	2,4,5-T	21	U
93-72-1	2,4,5-TP (Silvex)	20.6	U
75-99-0	Dalapon	411	U
94-82-6	2,4-DB	206	U
1918-00-9	Dicamba	20.6	U
120-36-5	Dichloroprop	206	U
88-85-7	Dinoseb	103	U
94-74-6	MCPA	20600	U
7085-19-0	MCPP	20600	U
87-86-5	Pentachlorophenol	20.6	U
87-86-5	4-Nitrophenol	20.6	U

COPY 1

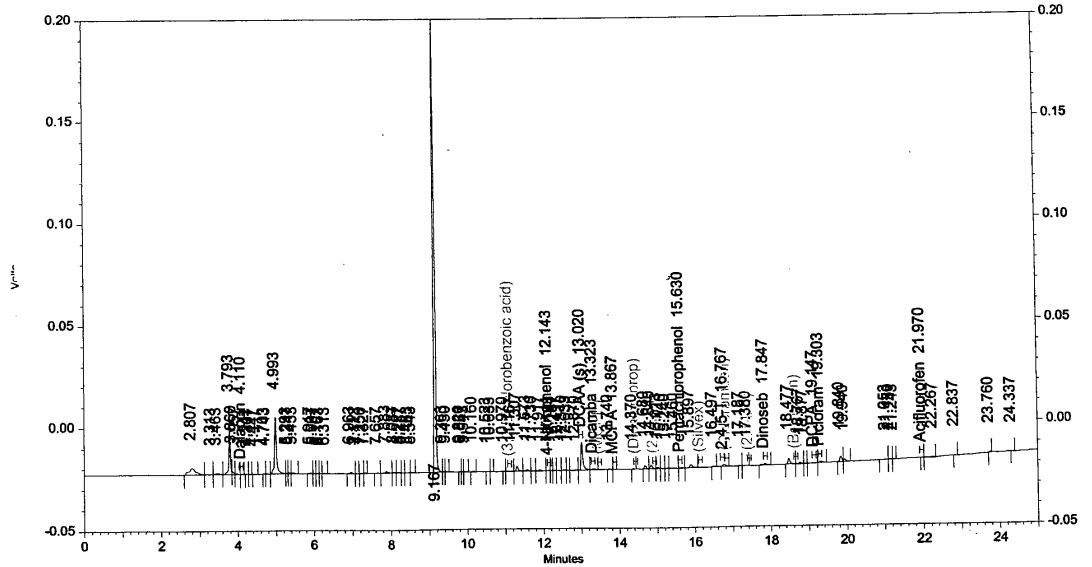
S_ ecialized Assays, Inc. -- Extractable Organics : Dual ECD Report 490

File Name : C:\Chrom231\Shimadzu3\public\050900s.017
Sa ple Name : 58007
Aq red : 5/9/2000 20:43:45
Meth C:\Chrom231\Methods\8151clpshimadzudoc.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)



Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)



Specialized Assays, Inc. -- Extractable Organics : Dual ECD Report

File Name : C:\Chrom231\Shimadzu3\public\050900s.017
Sample Name : 58007
Acquired : 5/9/2000 20:43:45
Method : C:\Chrom231\Methods\8151clpshimadzudoc.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dalapon	3.98	4389	0.0000
3,5-Dichlorobenzoic acid	10.97	3251	0.0063
4-Nitrophenol	12.17	3909	0.0180
DCAA (s)	12.60	110049	0.3120
Dicamba	12.92	2162	0.0018
MCPP	13.23	2313	1.5224
MCPA			0.0000 BDL
Dichloroprop	14.10	1159	0.0027
2,4-D	14.52	3427	0.0084
Pentachlorophenol	14.93	23336	0.0052
Silvex	15.79	1028	0.0006
Chloramben			0.0000 BDL
2,4,5-T	16.27	1167	0.0005
2,4-DB	17.04	1031	0.0039
Bentazon	18.13	2474	0.1727
Picloram	18.34	1425	0.0010
Dinoseb	18.52	14347	0.0087
DICPA	18.93	3749	0.0018
Acifluorfen			0.0000 BDL

Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dalapon	4.11	421	0.0020
3,5-Dichlorobenzoic acid			0.0000 BDL
4-Nitrophenol	12.14	1433	0.0147
DCAA (s)	13.02	45076	0.3506
Dicamba	13.32	3748	0.0093
MCPP			0.0000 BDL
MCPA	13.87	298	0.3046
Dichloroprop			0.0000 BDL
2,4-D			0.0000 BDL
Pentachlorophenol	15.63	1633	0.0012
Silvex			0.0000 BDL
2,4,5-T	16.77	4844	0.0094
Chloramben			0.0000 BDL
2,4-DB			0.0000 BDL
Dinoseb	17.85	6143	0.0146
Bentazon			0.0000 BDL
DICPA	19.15	3195	0.0048
Picloram	19.30	5039	0.0066
Acifluorofen	21.97	375	0.0006

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264720

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8151A
Delivery Group: 189955
Instrument: SHIMADZU-3
Grams Extracted: 30. g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58008
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 9/00
Analysis Time: 21:14
Sample QC Group: 2328

Extraction Date: 5/ 1/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
94-75-7	2,4-D	198	U
93-76-5	2,4,5-T	20.2	U
93-72-1	2,4,5-TP (Silvex)	19.9	U
75-99-0	Dalapon	397	U
94-82-6	2,4-DB	199	U
1918-00-9	Dicamba	19.9	U
120-36-5	Dichloroprop	199	U
88-85-7	Dinoseb	99.2	U
94-74-6	MCPA	19900	U
7085-19-0	MCPP	19900	U
87-86-5	Pentachlorophenol	19.9	U
87-86-5	4-Nitrophenol	19.9	U

S ecialized Assays, Inc. -- Extractable Organics : Dual ECD Report

File Name : C:\Chrom231\Shimadzu3\public\050900s.018
Sample Name : 58008
Acquired : 5/9/2000 21:14:31
Method : C:\Chrom231\Methods\8151clpshimadzudoc.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dalapon	3.97	2344	0.0000
3,5-Dichlorobenzoic acid			0.0000 BDL
4-Nitrophenol	12.23	4146	0.0191
DCAA (s)	12.58	89670	0.2542
Dicamba			0.0000 BDL
MCPP	13.26	2261	1.4881
MCPA			0.0000 BDL
Dichloroprop	14.09	9160	0.0217
2,4-D	14.47	1910	0.0047
Pentachlorophenol	14.90	58504	0.0131
Silvex			0.0000 BDL
Chloramben			0.0000 BDL
2,4,5-T			0.0000 BDL
2,4-DB			0.0000 BDL
Bentazon	18.11	10149	0.4452
Picloram	18.35	12270	0.0088
Dinoseb	18.55	6193	0.0038
DCPA	18.91	11999	0.0057
Acifluorfen	22.23	4385	0.0026

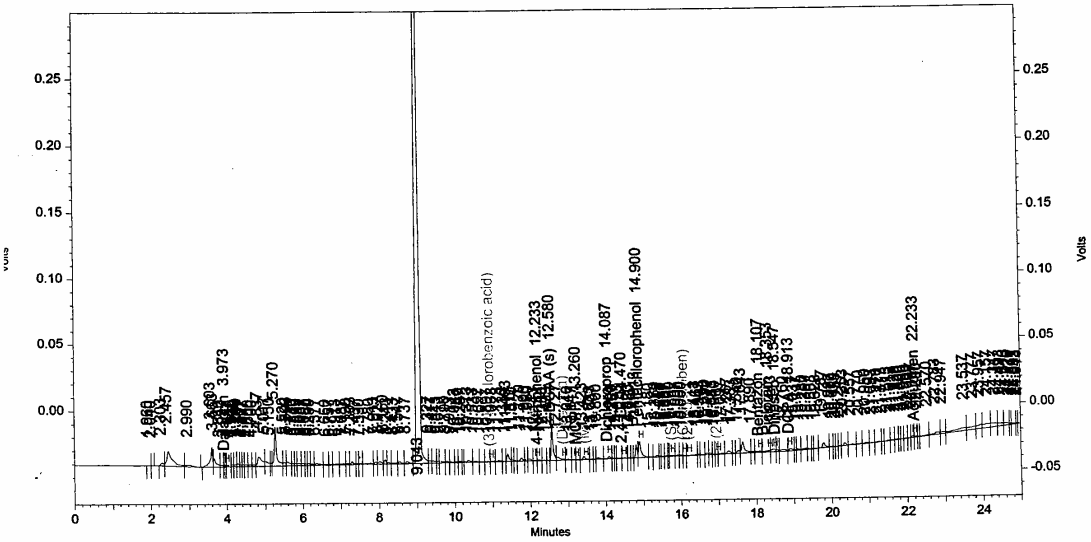
Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dalapon	4.10	981	0.0048
3,5-Dichlorobenzoic acid	11.12	2923	0.0151
4-Nitrophenol			0.0000 BDL
DCAA (s)	13.00	37433	0.2911
Dicamba	13.30	6131	0.0152
MCPP	13.44	664	0.8103
MCPA			0.0000 BDL
Dichloroprop			0.0000 BDL
2,4-D			0.0000 BDL
Pentachlorophenol	15.59	517	0.0004
Silvex	16.20	1731	0.0027
2,4,5-T	16.73	2252	0.0044
Chloramben	16.84	1375	0.0024
2,4-DB			0.0000 BDL
Dinoseb	17.90	2134	0.0051
Bentazon			0.0000 BDL
DCPA	19.13	4460	0.0068
Picloram	19.28	3231	0.0042
Acifluorofen			0.0000 BDL

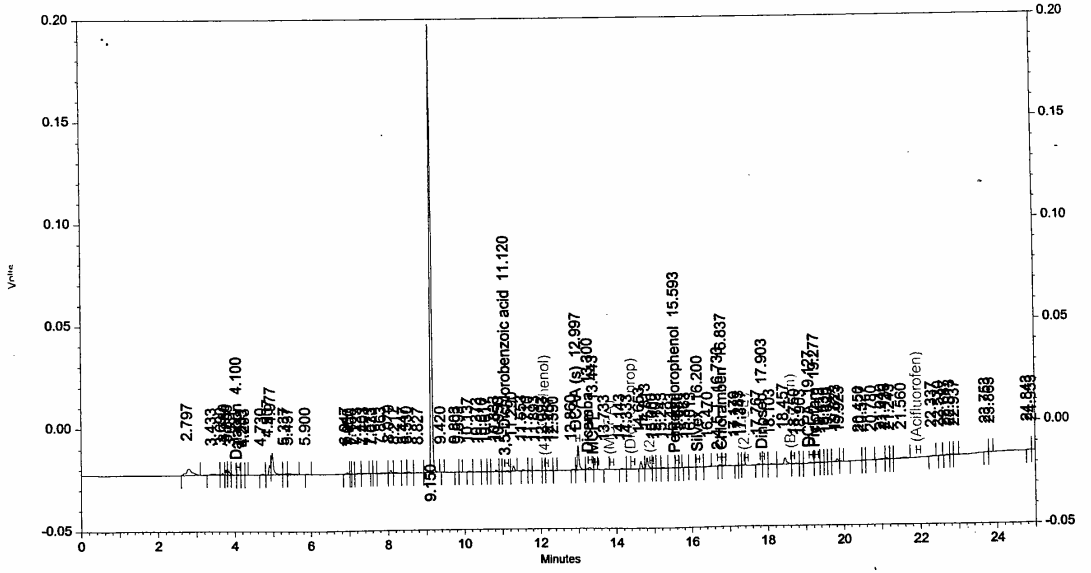
Specialized Assays, Inc. -- Extractable Organics : Dual ECD Report

File Name : C:\Chrom231\Shimadzu3\public\050900s.018
Sample Name : 58008
Acquired : 5/9/2000 21:14:31
Method : C:\Chrom231\Methods\8151clpshimadzudoc.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)



Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)



SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264721

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8151A
Delivery Group: 189955
Instrument: SHIMADZU-3
Grams Extracted: 30. g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58009
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 9/00
Analysis Time: 21:45
Sample QC Group: 2328

Extraction Date: 5/ 1/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
94-75-7	2,4-D	198	U
93-76-5	2,4,5-T	20.2	U
93-72-1	2,4,5-TP (Silvex)	19.9	U
75-99-0	Dalapon	397	U
94-82-6	2,4-DB	199	U
1918-00-9	Dicamba	19.9	U
120-36-5	Dichloroprop	199	U
88-85-7	Dinoseb	99.2	U
94-74-6	MCPA	19900	U
7085-19-0	MCPP	19900	U
87-86-5	Pentachlorophenol	19.9	U
87-86-5	4-Nitrophenol	19.9	U

S| ecialized Assays, Inc. -- Extractable Organics : Dual ECD Report

ile Name : C:\Chrom231\Shimadzu3\public\050900s.019
Sa--ple Name : 58009
\q red : 5/9/2000 21:45:15
Meth- · C:\Chrom231\Methods\8151clpshimadzudoc.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)

N me	Retention Time	Area	ESTD concentration
D lapon	3.97	5712	0.0000
3,5-Dichlorobenzoic acid	11.00	1604	0.0031
4 Nitrophenol	12.17	6126	0.0282
D AA (s)	12.60	93819	0.2660
Dicamba			0.0000 BDL
MCPP			0.0000 BDL
M CPA	13.44	14489	7.0690
D chloroprop	14.10	8425	0.0199
2,4-D	14.53	3038	0.0075
F ntachlorophenol	14.92	33514	0.0075
S vex	15.75	9286	0.0056
Chloramben	16.10	2285	0.0505
2 4,5-T			0.0000 BDL
2 4-DB	16.97	4093	0.0155
Bentazon	18.13	10573	0.4602
Picloram	18.37	11533	0.0083
I noseb	18.51	13115	0.0080
L CPA	18.92	12590	0.0059
Acifluorfen	22.17	1892	0.0011

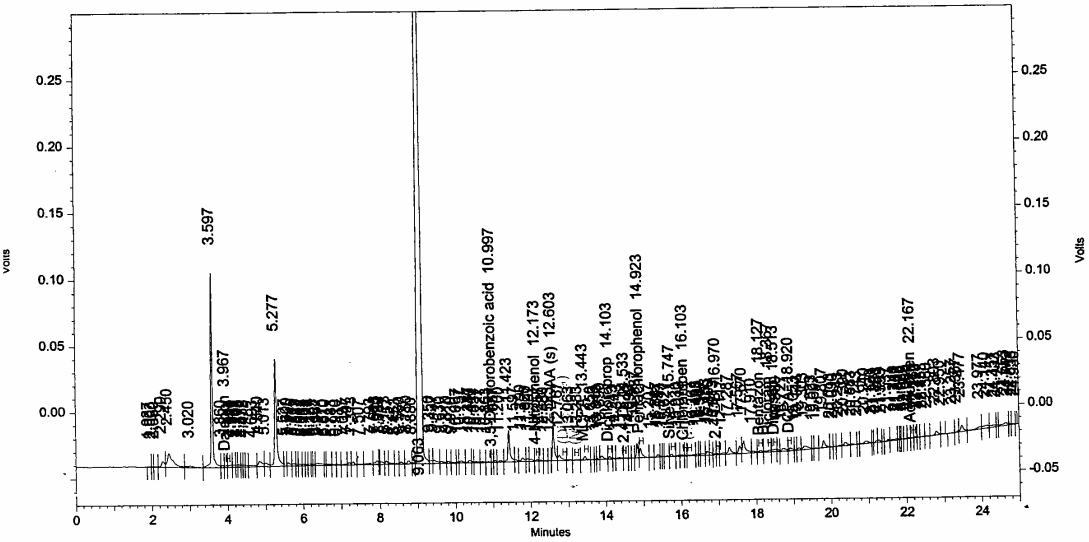
C e I B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
alapon	4.10	863	0.0042
3,5-Dichlorobenzoic acid	11.14	3407	0.0177
4-Nitrophenol	12.13	344	0.0035
CAA (s)	13.02	38347	0.2982
icamba	13.32	3891	0.0096
MCPP	13.46	983	1.1995
MCPA			0.0000 BDL
ichloroprop			0.0000 BDL
2,4-D			0.0000 BDL
Pentachlorophenol	15.61	986	0.0007
ilvex			0.0000 BDL
2,4,5-T	16.75	4470	0.0087
Chloramben	16.86	2906	0.0051
,4-DB	17.43	2136	0.0237
linoseb			0.0000 BDL
Bentazon	18.68	2406	0.0367
DCPA	19.15	5721	0.0087
icloram	19.30	7263	0.0095
Acifluorofen			0.0000 BDL

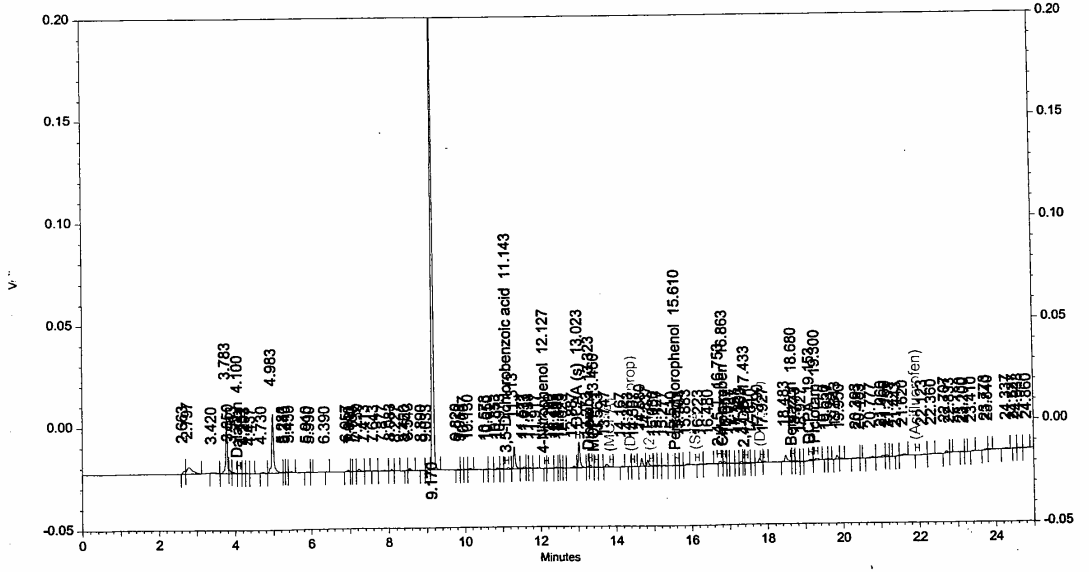
Specialized Assays, Inc. -- Extractable Organics : Dual ECD Report 495

File Name : C:\Chrom231\Shimadzu3\public\050900s.019
Sample Name : 58009
Acquired : 5/9/2000 21:45:15
Method : C:\Chrom231\Methods\8151clpshimadzudoc.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)



Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)



SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264722

Matrix: Soil
% Dry Weight: 86.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8151A
Delivery Group: 189955
Instrument: SHIMADZU-3
Grams Extracted: 30. g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58010
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 9/00
Analysis Time: 22:46
Sample QC Group: 2328

Extraction Date: 5/ 1/00

FORM I

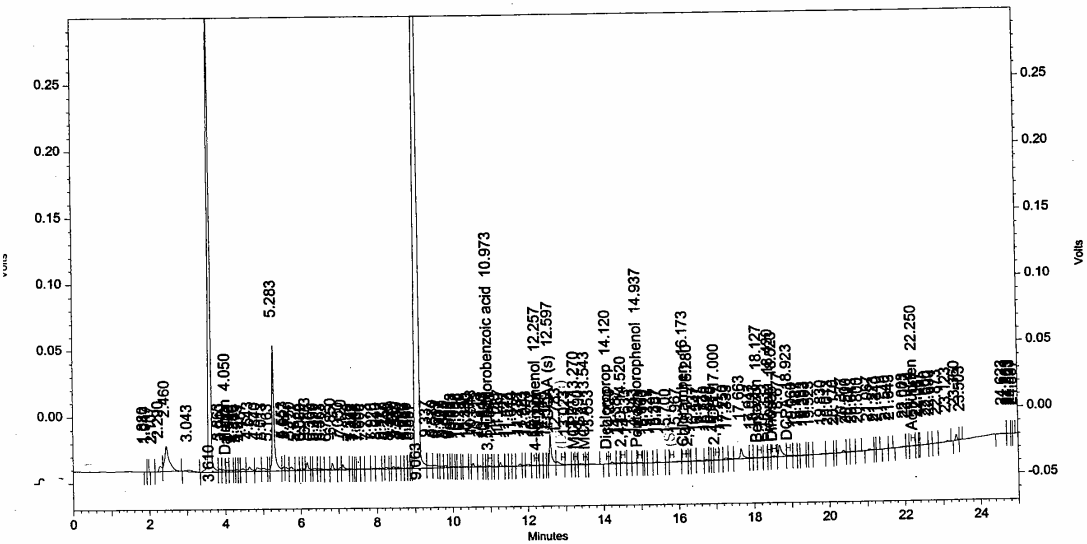
CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
94-75-7	2,4-D	194	U
93-76-5	2,4,5-T	19.8	U
93-72-1	2,4,5-TP (Silvex)	19.4	U
75-99-0	Dalapon	388	U
94-82-6	2,4-DB	194	U
1918-00-9	Dicamba	19.4	U
120-36-5	Dichloroprop	194	U
88-85-7	Dinoseb	96.9	U
94-74-6	MCPA	19400	U
7085-19-0	MCPP	19400	U
87-86-5	Pentachlorophenol	19.4	U
87-86-5	4-Nitrophenol	19.4	U

COPY 1

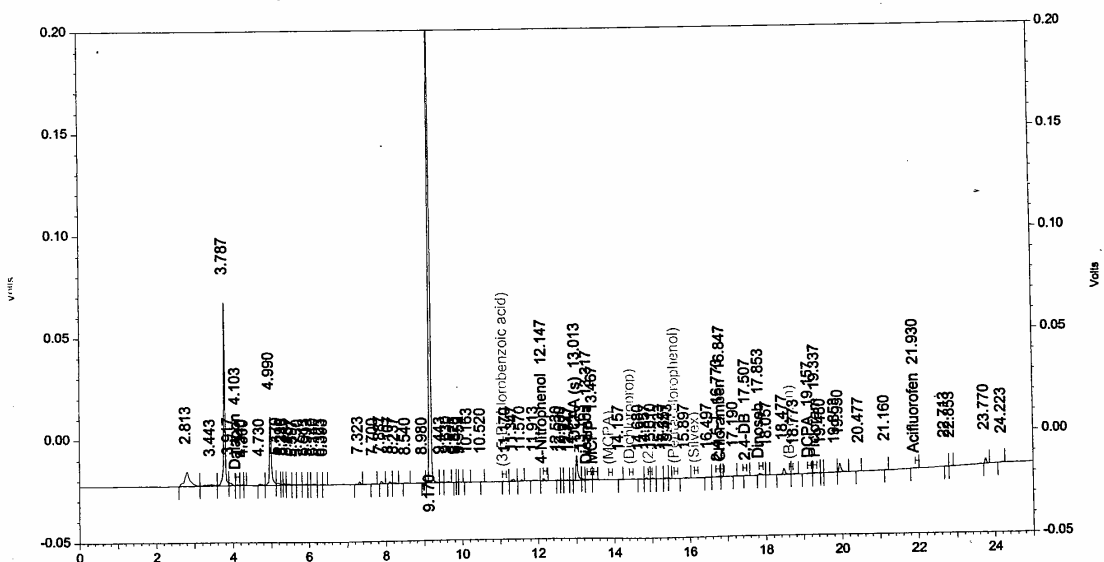
Specialized Assays, Inc. -- Extractable Organics : Dual ECD Report

File Name : C:\Chrom231\Shimadzu3\public\050900s.021
Sample Name : 58010
Acquired : 5/9/2000 22:46:50
Method : C:\Chrom231\Methods\8151clpshimadzu.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)



Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)



Specialized Assays, Inc. -- Extractable Organics : Dual ECD Report

File Name : C:\Chrom231\Shimadzu3\public\050900s.021
Sample Name : 58010
Acquired : 5/9/2000 22:46:50
Method : C:\Chrom231\Methods\8151clpshimadzu.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dalapon	4.05	6533	0.0000
3,5-Dichlorobenzoic acid	10.97	3662	0.0071
4-Nitrophenol	12.26	1102	0.0051
DAA (s)	12.60	93870	0.2661
Dicamba			0.0000 BDL
MCPP	13.27	2289	1.5066
MCPA	13.54	749	0.3654
Dichloroprop	14.12	724	0.0017
2,4-D	14.52	9461	0.0233
Pentachlorophenol	14.94	4702	0.0011
Silvex			0.0000 BDL
Chloramben	16.17	3867	0.0523
2,4,5-T	16.28	1516	0.0007
2,4-DB	17.00	4143	0.0156
Bentazon	18.13	3230	0.1995
Picloram	18.43	1719	0.0012
Dinoseb	18.52	6059	0.0037
DCPA	18.92	6780	0.0032
Acifluorfen	22.25	1765	0.0011

Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dalapon	4.10	2166	0.0105
3,5-Dichlorobenzoic acid			0.0000 BDL
4-Nitrophenol	12.15	3234	0.0332
DAA (s)	13.01	40599	0.3158
Dicamba	13.32	3463	0.0086
MCPP	13.47	1424	1.7377
MCPA			0.0000 BDL
Dichloroprop			0.0000 BDL
2,4-D			0.0000 BDL
Pentachlorophenol			0.0000 BDL
Silvex			0.0000 BDL
2,4,5-T	16.77	2199	0.0043
Chloramben	16.85	470	0.0008
2,4-DB	17.51	1154	0.0128
Dinoseb	17.85	3748	0.0089
Bentazon			0.0000 BDL
DCPA	19.16	2425	0.0037
Picloram	19.34	2958	0.0039
Acifluorofen	21.93	1317	0.0021

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264723

Matrix: Soil
% Dry Weight: 87.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8151A
Delivery Group: 189955
Instrument: SHIMADZU-3
Grams Extracted: 30. g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58011
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 9/00
Analysis Time: 23:17
Sample QC Group: 2328

Extraction Date: 5/ 1/00

FORM I

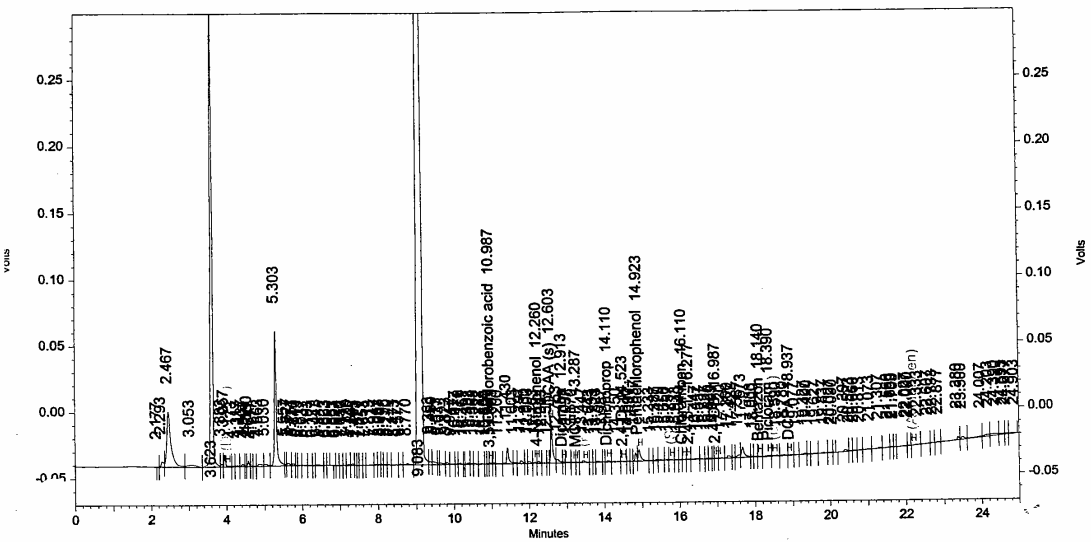
CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
94-75-7	2,4-D	192	U
93-76-5	2,4,5-T	19.5	U
93-72-1	2,4,5-TP (Silvex)	19.2	U
75-99-0	Dalapon	383	U
94-82-6	2,4-DB	192	U
1918-00-9	Dicamba	19.2	U
120-36-5	Dichloroprop	192	U
88-85-7	Dinoseb	95.7	U
94-74-6	MCPA	19200	U
7085-19-0	MCPP	19200	U
87-86-5	Pentachlorophenol	19.2	U
87-86-5	4-Nitrophenol	19.2	U

COPY 1

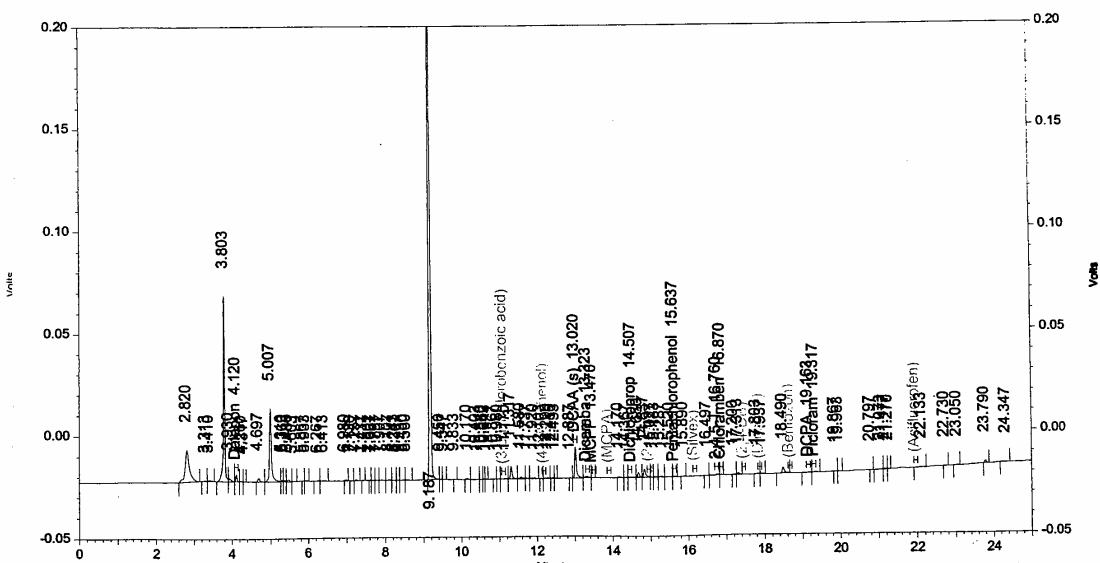
S ecialized Assays, Inc. -- Extractable Organics : Dual ECD Report 500

File Name : C:\Chrom231\Shimadzu3\public\050900s.022
Sample Name : 58011
Acquired : 5/9/2000 23:17:32
Method : C:\Chrom231\Methods\8151clpshimadzu.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)



Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)



000609

S ecialized Assays, Inc. -- Extractable Organics : Dual ECD Report 501

ile Name : C:\Chrom231\Shimadzu3\public\050900s.022
Sample Name : 58011
Acquired : 5/9/2000 23:17:32
Method : C:\Chrom231\Methods\8151clpshimadzu.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dalapon			0.0000 BDL
3,5-Dichlorobenzoic acid	10.99	4461	0.0087
4-Nitrophenol	12.26	7468	0.0343
DCAA (s)	12.60	114952	0.3259
Dicamba	12.91	3180	0.0026
MCPP	13.29	1469	0.9669
MCPA			0.0000 BDL
Dichloroprop	14.11	4669	0.0110
2,4-D	14.52	1629	0.0040
Pentachlorophenol	14.92	43122	0.0097
Silvex			0.0000 BDL
Chloramben	16.11	2421	0.0506
2,4,5-T	16.28	1918	0.0009
2,4-DB	16.99	2048	0.0077
Bentazon	18.14	4337	0.2388
Picloram	18.39	7494	0.0054
Dinoseb			0.0000 BDL
DCPA	18.94	4090	0.0019
Acifluorfen			0.0000 BDL

Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dalapon	4.12	7707	0.0374
3,5-Dichlorobenzoic acid			0.0000 BDL
4-Nitrophenol			0.0000 BDL
DCAA (s)	13.02	48568	0.3777
Dicamba	13.32	4610	0.0114
MCPP	13.47	378	0.4613
MCPA			0.0000 BDL
Dichloroprop	14.51	1375	0.0082
2,4-D			0.0000 BDL
Pentachlorophenol	15.64	624	0.0005
Silvex			0.0000 BDL
2,4,5-T	16.76	2181	0.0042
Chloramben	16.87	1021	0.0018
2,4-DB			0.0000 BDL
Dinoseb			0.0000 BDL
Bentazon			0.0000 BDL
DCPA	19.16	1820	0.0028
Picloram	19.32	2366	0.0031
Acifluorofen			0.0000 BDL

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264724

Matrix: Soil
% Dry Weight: 81.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8151A
Delivery Group: 189955
Instrument: SHIMADZU-3
Grams Extracted: 31. g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58012
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 9/00
Analysis Time: 23:48
Sample QC Group: 2328

Extraction Date: 5/ 1/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
94-75-7	2,4-D	199	U
93-76-5	2,4,5-T	19.8	U
93-72-1	2,4,5-TP (Silvex)	19.9	U
75-99-0	Dalapon	398	U
94-82-6	2,4-DB	199	U
1918-00-9	Dicamba	19.9	U
120-36-5	Dichloroprop	199	U
88-85-7	Dinoseb	99.5	U
94-74-6	MCPA	19900	U
7085-19-0	MCPP	19900	U
87-86-5	Pentachlorophenol	19.9	U
87-86-5	4-Nitrophenol	19.9	U

COPY 1

Specialized Assays, Inc. -- Extractable Organics : Dual ECD Report

File Name : C:\Chrom231\Shimadzu3\public\050900s.023
Sample Name : 58012
Injected : 5/9/2000 23:48:15
Method : C:\Chrom231\Methods\8151clpshimadzu.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dalapon			0.0000 BDL
3,5-Dichlorobenzoic acid	11.00	1696	0.0033
4-Nitrophenol	12.27	4867	0.0224
DCAA (s)	12.62	118786	0.3368
Dicamba	12.93	3717	0.0031
MCPP	13.29	1274	0.8385
MCPA	13.56	1468	0.7162
Dichloroprop	14.13	5449	0.0129
2,4-D	14.56	631	0.0016
Pentachlorophenol	14.95	33737	0.0076
Silvex	15.78	3286	0.0020
Chloramben	16.12	819	0.0488
2,4,5-T	16.29	649	0.0003
2,4-DB	16.99	673	0.0025
Bentazon	18.16	6742	0.3242
Picloram	18.36	5520	0.0040
Dinoseb			0.0000 BDL
DCPA	18.96	6961	0.0033
Acifluorfen			0.0000 BDL

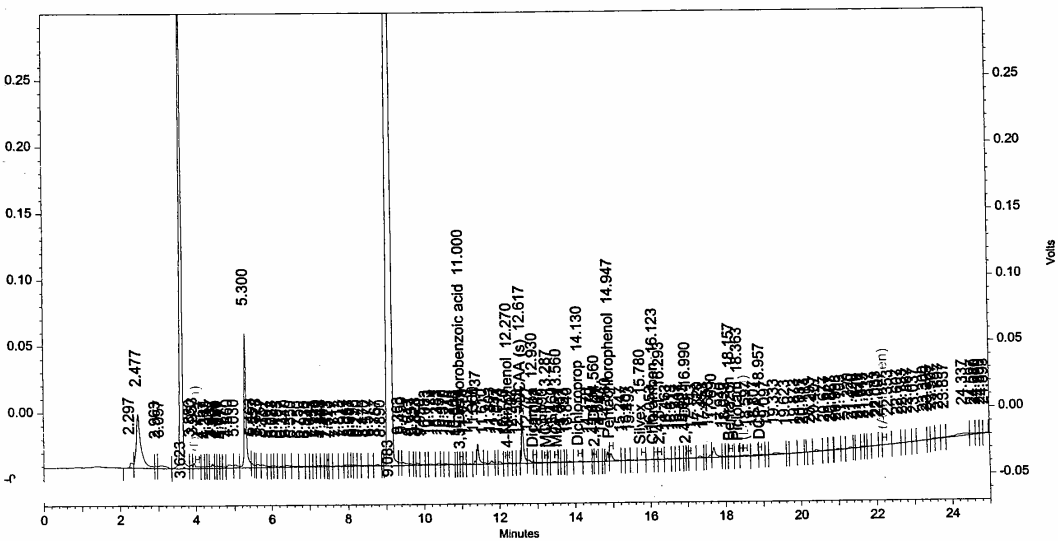
Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dalapon	4.12	3335	0.0162
3,5-Dichlorobenzoic acid			0.0000 BDL
4-Nitrophenol			0.0000 BDL
DCAA (s)	13.04	49569	0.3855
Dicamba	13.34	1486	0.0037
MCPP			0.0000 BDL
MCPA			0.0000 BDL
Dichloroprop			0.0000 BDL
2,4-D			0.0000 BDL
Pentachlorophenol	15.66	592	0.0004
Silvex			0.0000 BDL
2,4,5-T	16.78	2382	0.0046
Chloramben	16.89	1586	0.0028
2,4-DB	17.47	356	0.0039
Dinoseb			0.0000 BDL
Bentazon			0.0000 BDL
DCPA	19.18	2839	0.0043
Picloram	19.33	2751	0.0036
Acifluorofen			0.0000 BDL

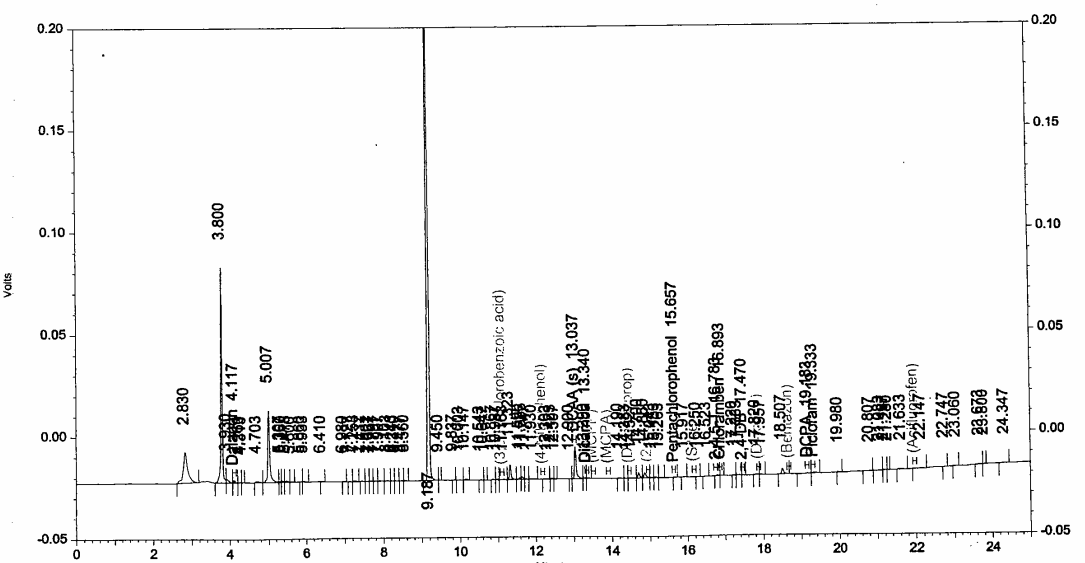
Specialized Assays, Inc. -- Extractable Organics : Dual ECD Report

File Name : C:\Chrom231\Shimadzu3\public\050900s.023
Sample Name : 58012
Acquired : 5/9/2000 23:48:15
Method : C:\Chrom231\Methods\8151clpshimadzu.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)



Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)



SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264725

Matrix: Soil
% Dry Weight: 57.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8151A
Delivery Group: 189955
Instrument: SHIMADZU-3
Grams Extracted: 31. g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58013
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/10/00
Analysis Time: 0:18
Sample QC Group: 2328

Extraction Date: 5/ 1/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
94-75-7	2,4-D	283	U
93-76-5	2,4,5-T	28.1	U
93-72-1	2,4,5-TP (Silvex)	28.2	U
75-99-0	Dalapon	566	U
94-82-6	2,4-DB	282	U
1918-00-9	Dicamba	28.2	U
120-36-5	Dichloroprop	282	U
88-85-7	Dinoseb	141	U
94-74-6	MCPA	28200	U
7085-19-0	MCPP	28200	U
87-86-5	Pentachlorophenol	28.2	U
87-86-5	4-Nitrophenol	28.2	U

COPY 1

3 ecialized Assays, Inc. -- Extractable Organics : Dual ECD Report

ile Name : C:\Chrom231\Shimadzu3\public\050900s.024
Sa ple Name : 58013
Aq red : 5/10/2000 00:18:46
Methc C:\Chrom231\Methods\8151clpshimadzu.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
D lapon			0.0000 BDL
3,5-Dichlorobenzoic acid	11.01	3536	0.0069
4 Nitrophenol	12.20	5426	0.0250
D AA (s)	12.63	114487	0.3246
Dicamba			0.0000 BDL
MCPP	13.24	2871	1.8896
M CPA	13.48	15280	7.4549
D chloroprop	14.13	6332	0.0150
2,4-D			0.0000 BDL
P ntachlorophenol	14.95	54165	0.0122
S vex	15.79	5971	0.0036
Chloramben	16.16	9696	0.0588
2 4,5-T			0.0000 BDL
2 4-DB	17.08	1444	0.0055
Bentazon	18.16	4134	0.2316
Picloram	18.41	4456	0.0032
D noseb	18.54	11656	0.0071
D CPA	18.95	12941	0.0061
Acifluorfen	22.21	1420	0.0009

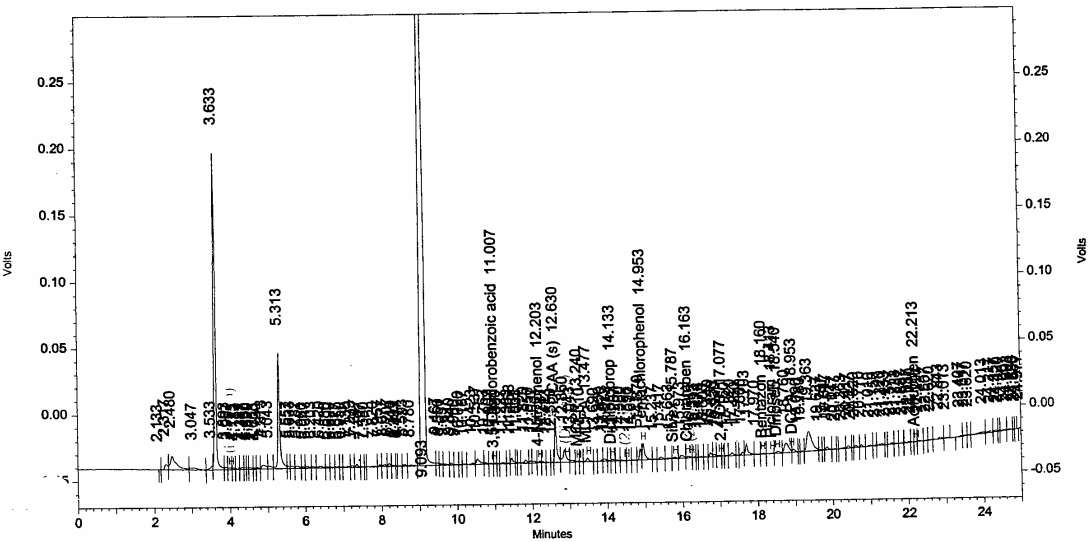
C e l B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
alapon	4.13	795	0.0039
3,5-Dichlorobenzoic acid			0.0000 BDL
4-Nitrophenol			0.0000 BDL
CAA (s)	13.05	45442	0.3534
icamba	13.35	5703	0.0141
MCPP	13.49	482	0.5882
MCPA			0.0000 BDL
ichloroprop	14.50	781	0.0046
2,4-D			0.0000 BDL
Pentachlorophenol	15.64	1105	0.0008
ilvex			0.0000 BDL
2,4,5-T	16.79	7698	0.0150
Chloramben	16.90	2957	0.0051
,4-DB	17.48	421	0.0047
inoseb	17.88	2878	0.0068
Bentazon			0.0000 BDL
DCPA	19.16	20642	0.0313
icloram	19.34	60604	0.0789
Acifluorofen			0.0000 BDL

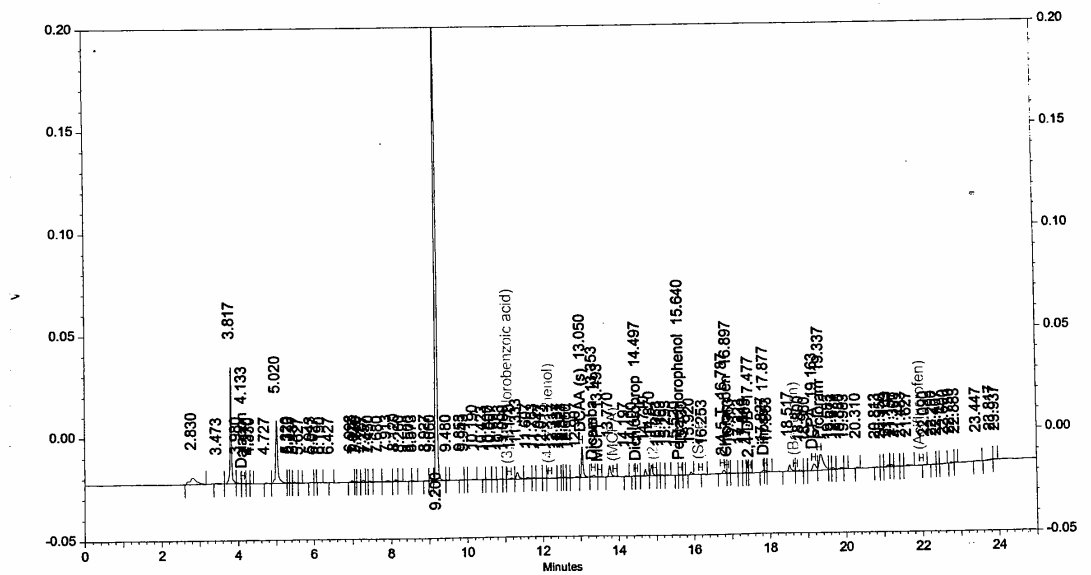
S ecialized Assays, Inc. -- Extractable Organics : Dual ECD Report

File Name : C:\Chrom231\Shimadzu3\public\050900s.024
Sample Name : 58013
Acquired : 5/10/2000 00:18:46
Method : C:\Chrom231\Methods\8151clpshimadzu.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)



Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)



SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264726

Matrix: Soil
% Dry Weight: 72.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8151A
Delivery Group: 189955
Instrument: SHIMADZU-3
Grams Extracted: 31. g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58073
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/10/00
Analysis Time: 0:49
Sample QC Group: 2328

Extraction Date: 5/ 1/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
94-75-7	2,4-D	224	U
93-76-5	2,4,5-T	22.2	U
93-72-1	2,4,5-TP (Silvex)	22.4	U
75-99-0	Dalapon	448	U
94-82-6	2,4-DB	224	U
1918-00-9	Dicamba	22.4	U
120-36-5	Dichloroprop	224	U
88-85-7	Dinoseb	112	U
94-74-6	MCPA	22400	U
7085-19-0	MCPP	22400	U
87-86-5	Pentachlorophenol	22.4	U
87-86-5	4-Nitrophenol	22.4	U

COPY 1

6Y

HERBICIDE INITIAL CALIBRATION OF SINGLE COMPONENT ANALYTES

Lab Name : Specialized Assays
Lab Code : SASSAYS
Instrument ID : Shimadzu3

SDG : 189955

GC Column (1) : RTX - CLPesticides ID : 30 m X 0.32 mm
Date(s) Analyzed : 5/9/00 5/9/00

Compound	RT of STANDARDS					MEAN	RT WINDOW(MIN)	
	0.05	0.2	0.5	0.7	1.0	RT	FROM	TO
Dalapon	4.03	4.02	4.01	4.01	4.01	4.02	3.97	4.07
4-Nitrophenol	12.23	12.21	12.20	12.18	12.18	12.20	12.15	12.25
Dicamba	12.93	12.92	12.91	12.90	12.90	12.91	12.86	12.96
MCPP	13.25	13.24	13.23	13.21	13.21	13.23	13.18	13.28
MCPA	13.51	13.50	13.49	13.48	13.47	13.49	13.44	13.54
Dichloroprop	14.14	14.13	14.11	14.10	14.09	14.11	14.06	14.16
2,4-D	14.54	14.52	14.49	14.48	14.47	14.50	14.45	14.55
Pentachlorophenol	14.96	14.95	14.95	14.94	15.00	14.96	14.91	15.01
2,4,5-TP (Silvex)	15.83	15.81	15.79	15.79	15.78	15.80	15.75	15.85
2,4,5-T	16.28	16.25	16.23	16.22	16.22	16.24	16.19	16.29
2,4-DB	17.05	17.03	17.00	16.99	16.99	17.01	16.96	17.06
Dinoseb	18.17	18.15	18.12	18.11	18.10	18.13	18.08	18.18
Picloram	18.55	18.53	18.52	18.51	18.51	18.52	18.47	18.57
DCAA	12.60	12.59	12.58	12.57	12.57	12.58	12.53	12.63

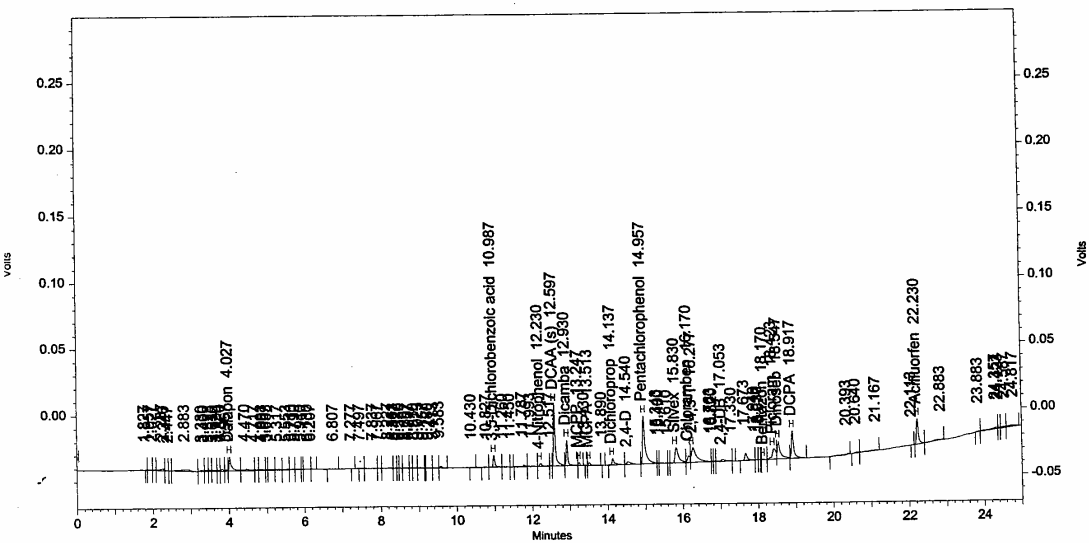
GC Column (2) : RTX - CLPesticidesII ID : 30 m X 0.32 mm
Date(s) Analyzed : 5/9/00 5/9/00

Compound	RT of STANDARDS					MEAN	RT WINDOW(MIN)	
	0.05	0.2	0.5	0.7	1.0	RT	FROM	TO
Dalapon	4.11	4.10	4.09	4.09	4.09	4.10	4.05	4.15
4-Nitrophenol	12.19	12.18	12.16	12.15	12.14	12.16	12.11	12.21
MCPP	13.51	13.50	13.49	13.47	13.47	13.49	13.44	13.54
Dicamba	13.34	13.33	13.31	13.30	13.29	13.31	13.26	13.36
MCPA	13.91	13.90	13.89	13.87	13.87	13.89	13.84	13.94
Dichloroprop	14.46	14.45	14.44	14.42	14.42	14.44	14.39	14.49
2,4-D	14.97	14.96	14.94	14.92	14.92	14.94	14.89	14.99
Pentachlorophenol	15.64	15.63	15.61	15.60	15.60	15.61	15.56	15.66
2,4,5-TP (Silvex)	16.19	16.17	16.15	16.14	16.14	16.16	16.11	16.21
2,4,5-T	16.77	16.75	16.73	16.71	16.71	16.73	16.68	16.78
Dinoseb	17.47	17.46	17.44	17.42	17.42	17.44	17.39	17.49
2,4-DB	16.89	16.87	16.85	16.83	16.83	16.85	16.80	16.90
Picloram	19.32	19.31	19.29	19.28	19.27	19.29	19.24	19.34
DCAA	13.02	13.01	13.00	12.98	12.98	13.00	12.95	13.05

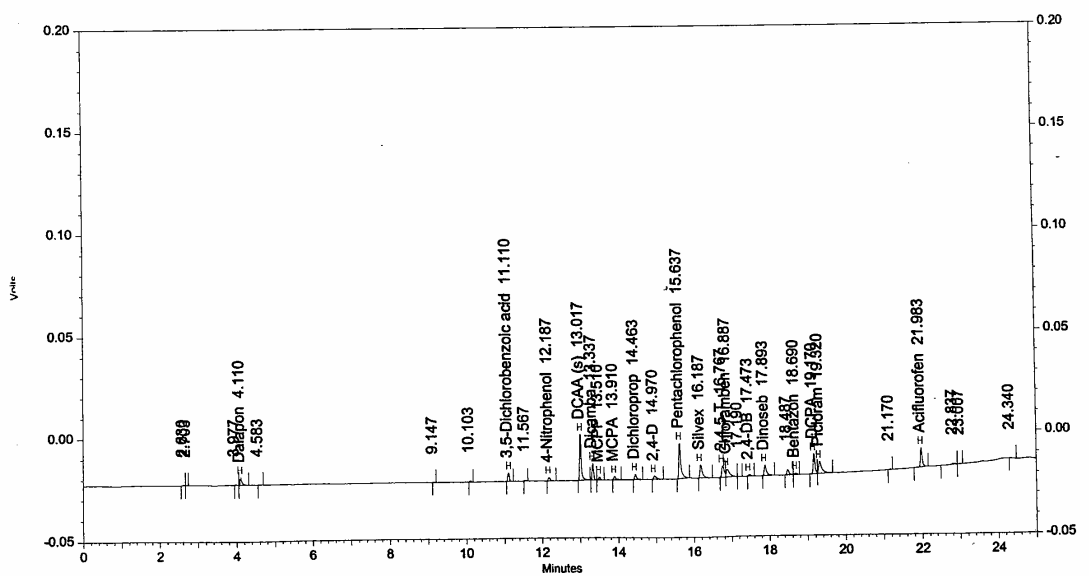
Specialized Assays, Inc. -- Extractable Organics : Dual ECD Report 510

File Name : C:\Chrom231\Shimadzu3\public\050900s.002
Sample Name : 8151 0.05 (3-s-jc-217-2)(3-s-ah-250-1)
Acquired : 5/9/2000 13:02:18
Method : C:\Chrom231\Methods\8151clpshimadzu.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)



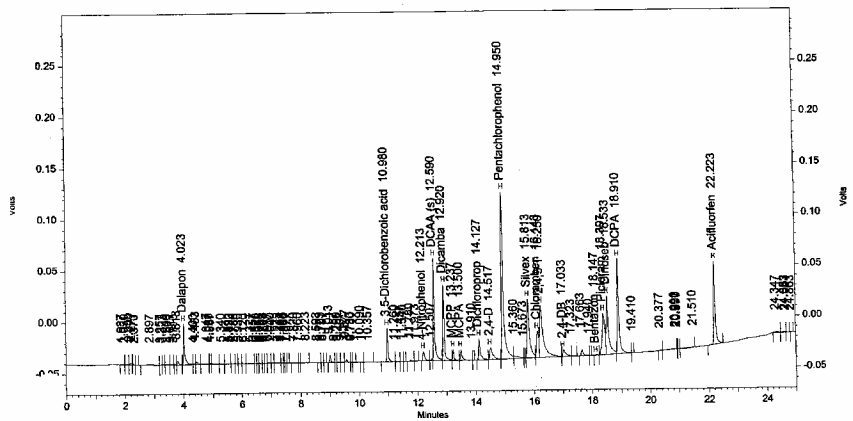
Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)



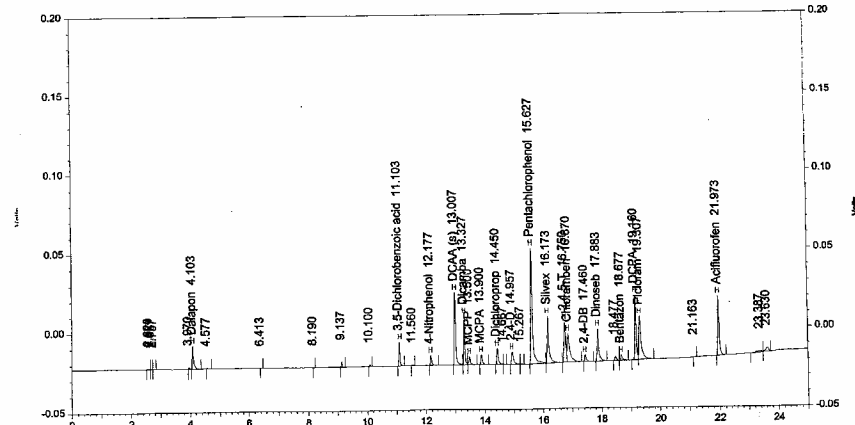
3| ecialized Assays, Inc. -- Extractable Organics : Dual ECD Report

:ile Name : C:\Chrom231\Shimadzu3\public\050900s.003
Sample Name : 8151 0.2 (3-s-jc-217-2)(3-s-ah-250-1)
Aq ed : 5/9/2000 13:33:03
Method : C:\Chrom231\Methods\8151clpshimadzu.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)



Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)



S ecialized Assays, Inc. -- Extractable Organics : Dual ECD Report 511

File Name : **C:\Chrom231\Shimadzu3\public\050900s.002**
Sample Name : **8151 0.05 (3-s-jc-217-2)(3-s-ah-250-1)**
Acquired : **5/9/2000 13:02:18**
Method : **C:\Chrom231\Methods\8151clpshimadzu.met**

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dalapon	4.03	47639	0.0387
3,5-Dichlorobenzoic acid	10.99	29433	0.0572
4-Nitrophenol	12.23	11002	0.0506
DCAA (s)	12.60	161932	0.4591
Dicamba	12.93	62140	0.0517
MCPP	13.25	5753	3.7865
MCPA	13.51	8771	4.2793
Dichloroprop	14.14	23086	0.0546
2,4-D	14.54	18732	0.0460
Pentachlorophenol	14.96	180987	0.0406
Silvex	15.83	77011	0.0463
Chloramben	16.17	25153	0.0763
2,4,5-T	16.28	110566	0.0496
2,4-DB	17.05	15345	0.0579
Bentazon	18.17	400	0.0990
Picloram	18.42	53174	0.0382
Dinoseb	18.55	83427	0.0507
DCPA	18.92	89289	0.0421
Acifluorfen	22.23	70903	0.0426

Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dalapon	4.11	12282	0.0595
3,5-Dichlorobenzoic acid	11.11	11291	0.0585
4-Nitrophenol	12.19	5477	0.0562
DCAA (s)	13.02	66703	0.5188
Dicamba	13.34	21126	0.0523
MCPP	13.51	3947	4.8165
MCPA	13.91	5543	5.6654
Dichloroprop	14.46	9082	0.0539
2,4-D	14.97	8595	0.0495
Pentachlorophenol	15.64	65757	0.0482
Silvex	16.19	30461	0.0472
2,4,5-T	16.77	24921	0.0485
Chloramben	16.89	27036	0.0471
2,4-DB	17.47	3440	0.0381
Dinoseb	17.89	21430	0.0510
Bentazon	18.69	2446	0.0373
DCPA	19.17	31471	0.0477
Picloram	19.32	34275	0.0446
Acifluorofen	21.98	30786	0.0493

S ecialized Assays, Inc. -- Extractable Organics : Dual ECD Report 512

File Name : C:\Chrom231\Shimadzu3\public\050900s.003
Sa ple Name : 8151 0.2 (3-s-jc-217-2)(3-s-ah-250-1)
Ac red : 5/9/2000 13:33:03
Meth : C:\Chrom231\Methods\8151clpshimadzu.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
D lapon	4.02	134631	0.2055
3,5-Dichlorobenzoic acid	10.98	106597	0.2072
4 Nitrophenol	12.21	42141	0.1938
D AA (s)	12.59	335858	0.9522
Dicamba	12.92	227889	0.1897
MCPP	13.24	32531	21.4113
M CPA	13.50	43224	21.0884
Dichloroprop	14.13	86909	0.2055
2,4-D	14.52	83631	0.2055
P ntachlorophenol	14.95	774116	0.1738
S vex	15.81	317957	0.1912
Chloramben	16.14	135957	0.2012
2 1,5-T	16.25	447764	0.2009
2 4-DB	17.03	47794	0.1804
Bentazon	18.15	2732	0.1818
Picloram	18.40	262485	0.1884
I noseb	18.53	323336	0.1964
D CPA	18.91	386567	0.1823
Acifluorfen	22.22	309187	0.1859

C el B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
alapon	4.10	43328	0.2100
3,5-Dichlorobenzoic acid	11.10	40724	0.2110
4-Nitrophenol	12.18	20670	0.2122
CAA (s)	13.01	137659	1.0706
icamba	13.33	83952	0.2080
MCPP	13.50	18752	22.8829
MCPA	13.90	21101	21.5670
ichloroprop	14.45	35647	0.2115
2,4-D	14.96	37249	0.2146
Pentachlorophenol	15.63	292112	0.2139
ilvex	16.17	134410	0.2081
2,4,5-T	16.75	103850	0.2022
Chloramben	16.87	115933	0.2018
,4-DB	17.46	17593	0.1950
inoseb	17.88	84669	0.2014
Bentazon	18.68	14464	0.2206
DCPA	19.16	134685	0.2043
icloram	19.31	155010	0.2019
Acifluorofen	21.97	125626	0.2014

S[ecialized Assays, Inc. -- Extractable Organics : Dual ECD Report

ile Name : C:\Chrom231\Shimadzu3\public\050900s.004
a ple Name : 8151 0.5 (3-s-jc-217-2)(3-s-ah-250-1)
q red : 5/9/2000 14:03:40
Meth : C:\Chrom231\Methods\8151clpshimadzu.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
D lapon	4.01	296995	0.5166
3,5-Dichlorobenzoic acid	10.97	249747	0.4854
4 Nitrophenol	12.20	113243	0.5209
D AA (s)	12.58	664337	1.8835
Dicamba	12.91	590339	0.4914
MCPP	13.23	82883	54.5520
M CPA	13.49	106657	52.0365
Dichloroprop	14.11	209045	0.4942
2,4-D	14.49	214316	0.5267
P ntachlorophenol	14.95	2540907	0.5705
S vex	15.79	835212	0.5024
Chloramben	16.11	378501	0.4747
2 4,5-T	16.23	1103952	0.4952
2 4-DB	17.00	130225	0.4916
Bentazon	18.12	10575	0.4603
Picloram	18.38	738013	0.5298
D noseb	18.52	814615	0.4948
DCPA	18.90	1083845	0.5112
Acifluorfen	22.21	850280	0.5112

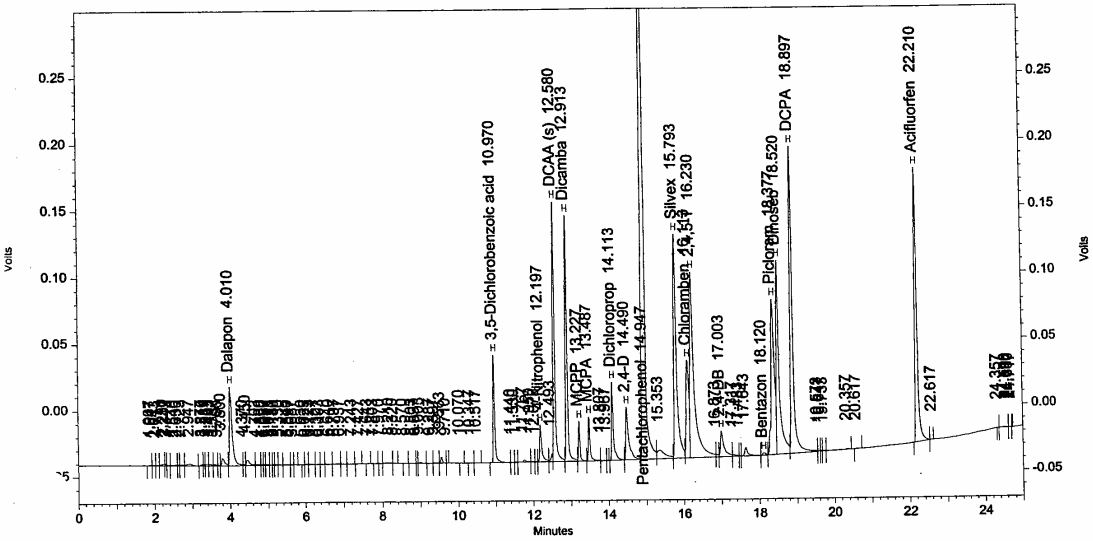
C el B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
alapon	4.09	104600	0.5070
3,5-Dichlorobenzoic acid	11.09	94880	0.4915
4-Nitrophenol	12.16	48304	0.4958
CAA (s)	13.00	249258	1.9386
icamba	13.31	203767	0.5048
MCPP	13.49	41150	50.2151
MCPA	13.89	48283	49.3494
ichloroprop	14.44	84658	0.5023
2,4-D	14.94	89261	0.5143
Pentachlorophenol	15.61	694080	0.5083
ilvex	16.15	336225	0.5205
2,4,5-T	16.73	265646	0.5173
Chloramben	16.85	297891	0.5186
2,4-DB	17.44	49345	0.5469
Dinoseb	17.86	211549	0.5032
Bentazon	18.66	35826	0.5464
DCPA	19.14	337231	0.5116
Picloram	19.29	402160	0.5238
Acifluorofen	21.96	314071	0.5034

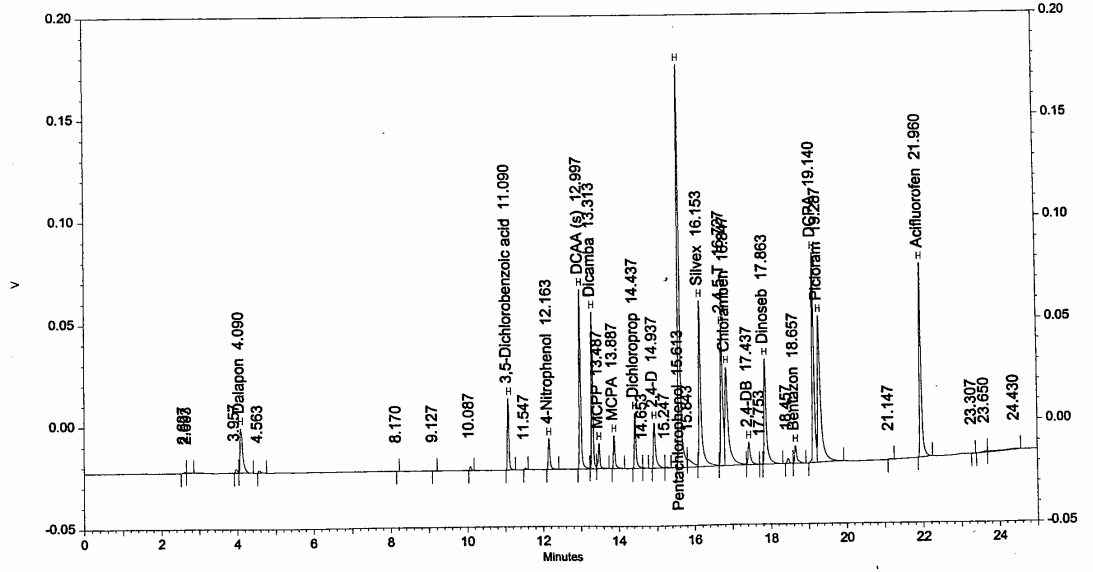
Specialized Assays, Inc. -- Extractable Organics : Dual ECD Report 513

File Name : C:\Chrom231\Shimadzu3\public\050900s.004
Sample Name : 8151 0.5 (3-s-jc-217-2)(3-s-ah-250-1)
Acquired : 5/9/2000 14:03:40
Method : C:\Chrom231\Methods\8151clpshimadzu.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)



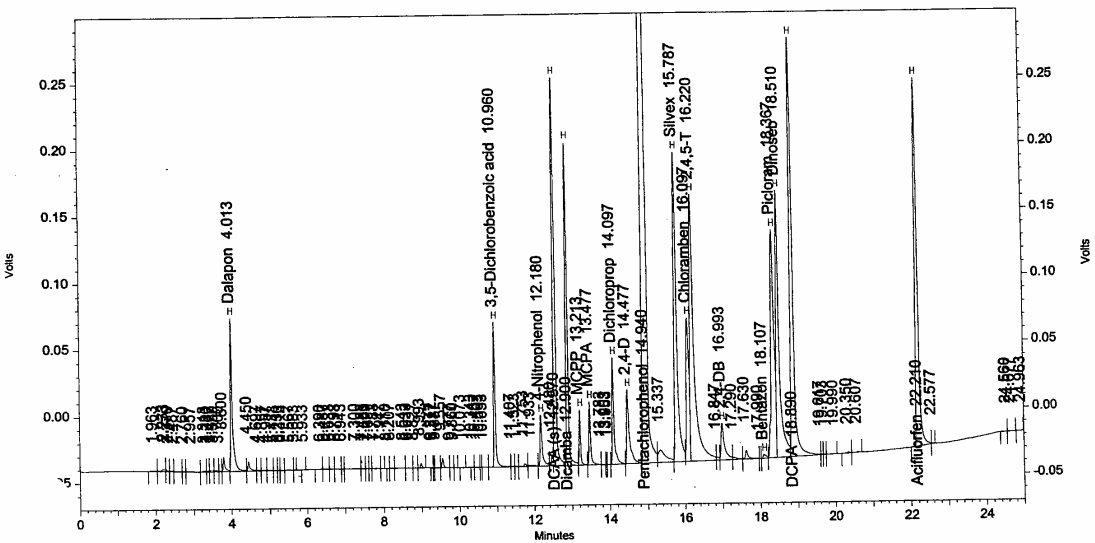
Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)



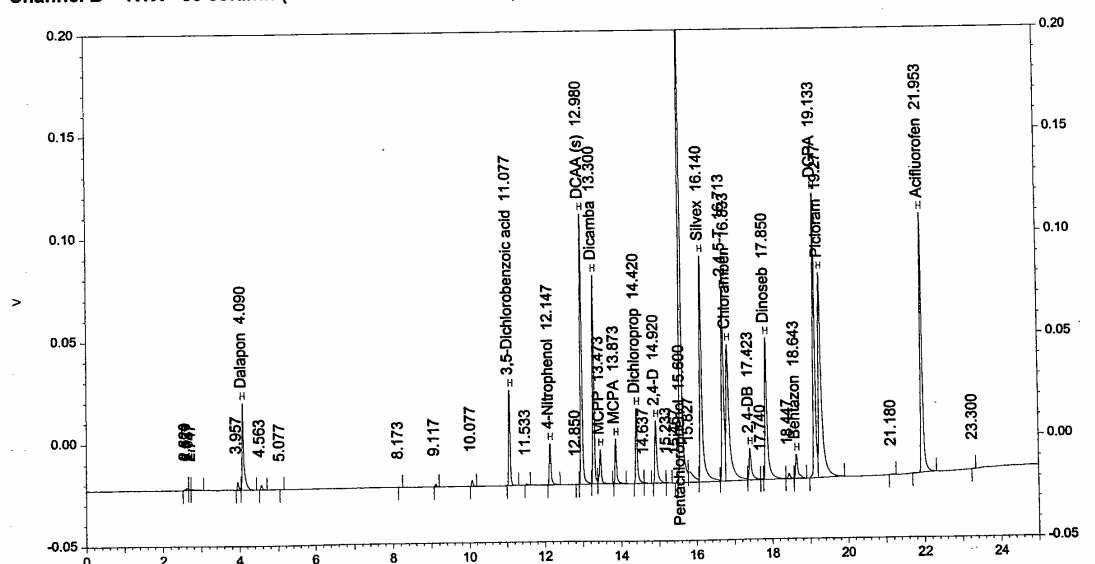
S ecialized Assays, Inc. -- Extractable Organics : Dual ECD Report 514

File Name : C:\Chrom231\Shimadzu3\public\050900s.005
Sa ple Name : 8151 0.7 (3-s-jc-217-2)(3-s-ah-250-1)
Ac ired : 5/9/2000 14:34:10
Meth d : C:\Chrom231\Methods\8151clpshimadzu.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)



Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)



000628

S ecialized Assays, Inc. -- Extractable Organics : Dual ECD Report

ile Name : C:\Chrom231\Shimadzu3\public\050900s.006
a ple Name : 8151 1.0 (3-s-jc-217-2)(3-s-ah-250-1)
q red : 5/9/2000 15:04:57
Meth : C:\Chrom231\Methods\8151clpshimadzu.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
D lapon	4.01	546183	0.9942
3,5-Dichlorobenzoic acid	10.95	484841	0.9423
4 Nitrophenol	12.18	211760	0.9740
D AA (s)	12.57	2101678	5.9585
Dicamba	12.90	1260365	1.0491
MCPP	13.21	167760	110.4164
M CPA	13.47	215577	105.1770
D chloroprop	14.09	403605	0.9542
2,4-D	14.47	407972	1.0027
P ntachlorophenol	15.00	15664777	3.5173
S vex	15.78	1852721	1.1144
Chloramben	16.09	871685	1.0308
2 4,5-T	16.22	2293208	1.0287
2 4-DB	16.99	268114	1.0121
Bentazon	18.10	26633	1.0305
Picloram	18.37	1760564	1.2638
D noseb	18.51	1689891	1.0265
D CPA	18.89	2608241	1.2302
Acifluorfen	22.21	1993207	1.1983

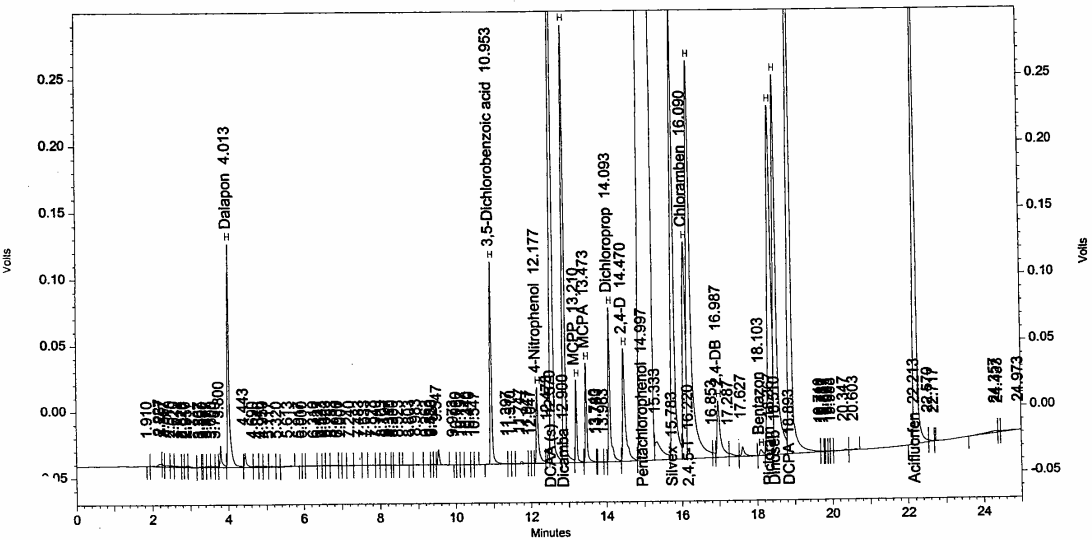
C l B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
alapon	4.09	181287	0.8787
3,5-Dichlorobenzoic acid	11.07	174051	0.9017
4-Nitrophenol	12.14	89396	0.9177
CAA (s)	12.98	610552	4.7485
icamba	13.29	381386	0.9449
MCPP	13.47	76999	93.9614
MCPA	13.87	88834	90.7960
ichloroprop	14.42	155308	0.9215
2,4-D	14.92	163259	0.9407
Pentachlorophenol	15.60	1333323	0.9765
ilvex	16.14	633289	0.9805
2,4,5-T	16.71	509598	0.9924
Chloramben	16.83	573326	0.9982
,4-DB	17.42	103650	1.1488
inoseb	17.85	414797	0.9867
Bentazon	18.64	72603	1.1074
DCPA	19.13	660633	1.0022
icloram	19.27	799979	1.0419
Acifluorofen	21.95	626476	1.0042

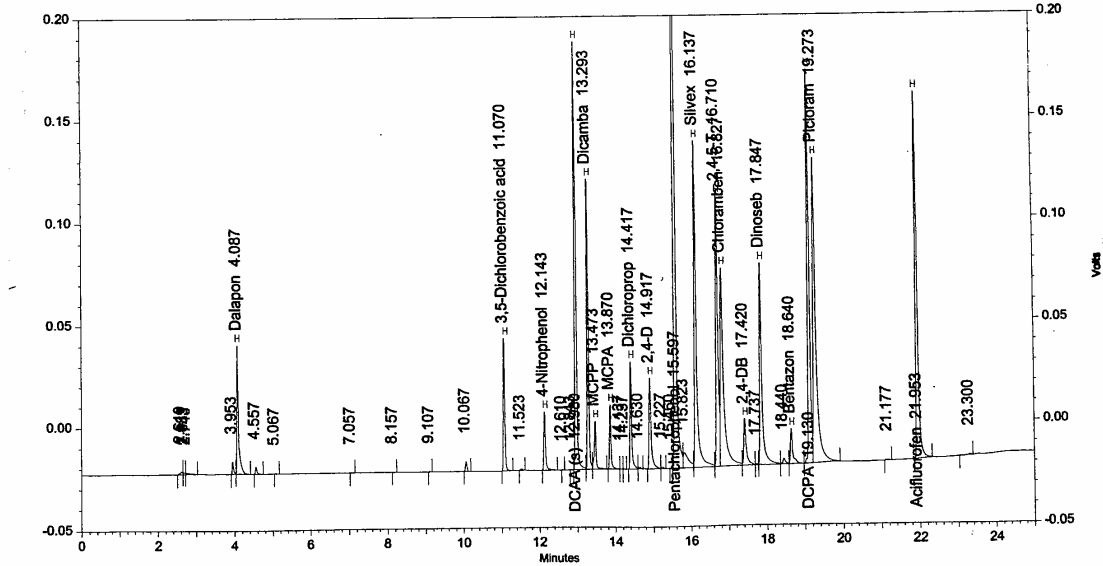
Specialized Assays, Inc. -- Extractable Organics : Dual ECD Report

File Name : C:\Chrom231\Shimadzu3\public\050900s.006
Sample Name : 8151 1.0 (3-s-jc-217-2)(3-s-ah-250-1)
Acquired : 5/9/2000 15:04:57
Method : C:\Chrom231\Methods\8151clpshimadzu.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)



Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)



S[ecialized Assays, Inc. -- Extractable Organics : Dual ECD Report 515

ile Name : C:\Chrom231\Shimadzu3\public\050900s.005
ample Name : 8151 0.7 (3-s-jc-217-2)(3-s-ah-250-1)
q red : 5/9/2000 14:34:10
Meth d : C:\Chrom231\Methods\8151clpshimadzu.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
D apon	4.01	390091	0.6950
3,5-Dichlorobenzoic acid	10.96	336819	0.6546
4 litrophenol	12.18	153185	0.7046
D AA (s)	12.57	1102590	3.1260
Dicamba	12.90	833933	0.6942
MCPP	13.21	115199	75.8218
M CPA	13.48	147679	72.0506
D chloroprop	14.10	281820	0.6662
2,4-D	14.48	286483	0.7041
F ntachlorophenol	14.94	4198354	0.9427
S vex	15.79	1184937	0.7127
Chloramben	16.10	549026	0.6670
2 4,5-T	16.22	1538266	0.6900
2 4-DB	16.99	181254	0.6842
Bentazon	18.11	16716	0.6784
Picloram	18.37	1091184	0.7833
D noseb	18.51	1140701	0.6929
D CPA	18.89	1604530	0.7568
Acifluorfen	22.21	1240932	0.7460

C l B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
alapon	4.09	133281	0.6460
3,5-Dichlorobenzoic acid	11.08	126161	0.6536
4-Nitrophenol	12.15	63736	0.6543
CAA (s)	12.98	379112	2.9485
camba	13.30	273126	0.6767
MCPP	13.47	55806	68.0997
MCPA	13.87	63676	65.0824
ichloroprop	14.42	112824	0.6694
2,4-D	14.92	118691	0.6839
Pentachlorophenol	15.60	937889	0.6869
ilvex	16.14	452963	0.7013
2,4,5-T	16.71	357015	0.6953
Chloramben	16.83	409809	0.7135
4-DB	17.42	71926	0.7972
inoseb	17.85	288770	0.6869
Bentazon	18.64	49075	0.7485
DCPA	19.13	461927	0.7008
icloram	19.28	551338	0.7181
Acifluorofen	21.95	434795	0.6969

7Y

HERBICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name : Specialized Assays SDG : 189955
Lab Code : SASSAYS

EPA Sample ID : CCV01 Date Analyzed : 5/9/00
Lab Sample ID : 8151 x200 Time Analyzed : 22:16

Instrument ID : Shimadzu3
GC Column (1) : RTX - CLPesticides ID : 30 m X 0.32 mm
Initial Calibration Date(s) : 5/9/00

Compound	RT	RT Window		Calculated Amount (ng)	Known Amount (ng)	% Diff.
		From	To			
Dalapon	4.04	3.99	4.09	470	500	-6
4-Nitrophenol	12.22	12.17	12.27	501	500	0
Dicamba	12.94	12.89	12.99	480	500	-4
MCPP	13.25	13.20	13.30	49412	50000	-1
MCPA	13.51	13.46	13.56	49278	50000	-1
Dichloroprop	14.13	14.08	14.18	487	500	-3
2,4-D	14.52	14.47	14.57	524	500	5
Pentachlorophenol	14.97	14.92	15.02	565	500	13
2,4,5-TP (Silvex)	15.82	15.77	15.87	506	500	1
2,4,5-T	16.25	16.20	16.30	526	500	5
2,4-DB	17.03	16.98	17.08	601	500	20 *
Dinoseb	18.53	18.48	18.58	551	500	10
Picloram	18.40	18.35	18.45	492	500	-2

Average % Difference : 6

Instrument ID : Shimadzu3
GC Column (2) : RTX - CLPesticidesII ID : 30 m X 0.32 mm
Initial Calibration Date(s) : 5/9/00

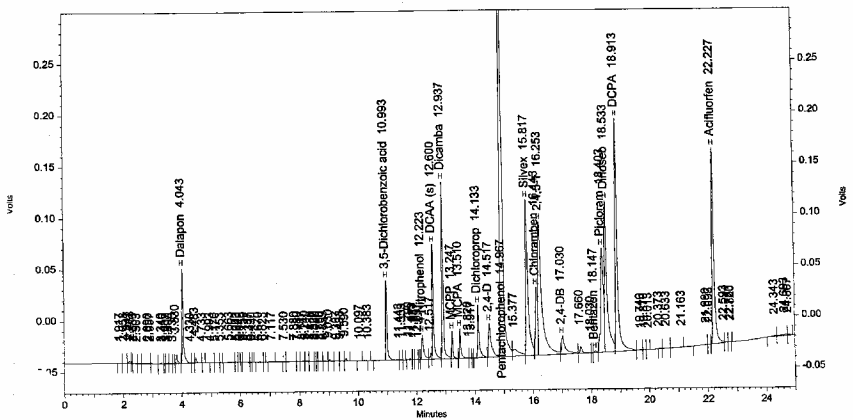
Compound	RT	RT Window		Calculated Amount (ng)	Known Amount (ng)	% Diff.
		From	To			
Dalapon	4.12	4.07	4.17	461	500	-8
4-Nitrophenol	11.11	11.06	11.16	482	500	-4
MCPP	13.51	13.46	13.56	48584	50000	-3
Dicamba	13.34	13.29	13.39	484	500	-3
MCPA	13.91	13.86	13.96	45727	50000	-9
Dichloroprop	14.46	14.41	14.51	464	500	-7
2,4-D	14.96	14.91	15.01	499	500	0
Pentachlorophenol	15.63	15.58	15.68	494	500	-1
2,4,5-TP (Silvex)	16.17	16.12	16.22	514	500	3
2,4,5-T	16.75	16.70	16.80	484	500	-3
Dinoseb	17.88	17.83	17.93	495	500	-1
2,4-DB	17.46	17.41	17.51	531	500	6
Picloram	19.30	19.25	19.35	514	500	3

Average % Difference : 4

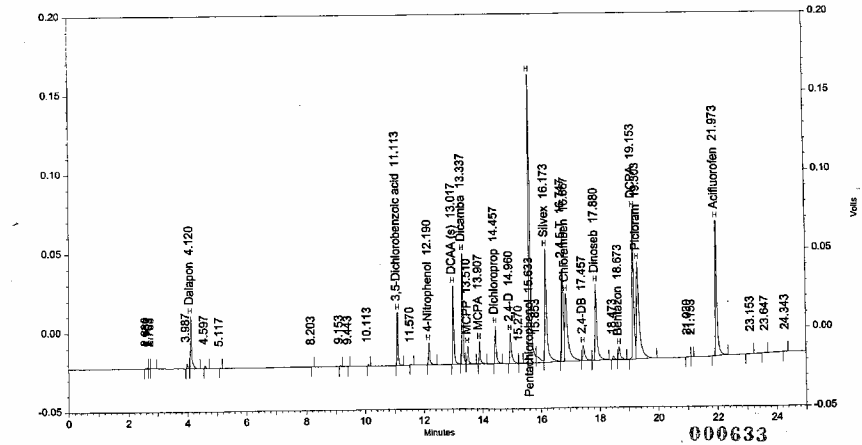
Specialized Assays, Inc. -- Extractable Organics : Dual ECD Report 517

File Name : C:\Chrom231\Shimadzu3\public\050900s.020
Sample Name : 8151 0.5 (3-s-jc-217-2)(3-s-ah-250-1)
Acquired : 5/9/2000 22:16:01
Method : C:\Chrom231\Methods\8151clpshimadzu.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)



Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)



S ecialized Assays, Inc. -- Extractable Organics : Dual ECD Report 518

File Name : C:\Chrom231\Shimadzu3\public\050900s.020
Sa ple Name : 8151 0.5 (3-s-jc-217-2)(3-s-ah-250-1)
Ac ired : 5/9/2000 22:16:01
Meth d : C:\Chrom231\Methods\8151clpshimadzu.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
D lapon	4.04	272897	0.4704
3,5-Dichlorobenzoic acid	10.99	253712	0.4931
4 Nitrophenol	12.22	108846	0.5006
D AA (s)	12.60	381096	1.0805
Dicamba	12.94	576023	0.4795
MCPP	13.25	75074	49.4123
M CPA	13.51	101003	49.2780
Dichloroprop	14.13	205892	0.4867
2,4-D	14.52	213167	0.5239
P ntachlorophenol	14.97	2515642	0.5648
S vex	15.82	841937	0.5064
Chloramben	16.14	362276	0.4564
2 4,5-T	16.25	1173532	0.5264
2 4-DB	17.03	159104	0.6006
Bentazon	18.15	10693	0.4645
Picloram	18.40	685764	0.4923
noseb	18.53	906377	0.5505
DCPA	18.91	1152850	0.5438
Acifluorfen	22.23	873006	0.5248

C el B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
alapon	4.12	95059	0.4608
3,5-Dichlorobenzoic acid	11.11	92695	0.4802
4-Nitrophenol	12.19	46903	0.4815
CAA (s)	13.02	148558	1.1554
icamba	13.34	195264	0.4838
MCPP	13.51	39813	48.5835
MCPA	13.91	44739	45.7271
ichloroprop	14.46	78121	0.4635
2,4-D	14.96	86617	0.4991
Pentachlorophenol	15.63	674699	0.4941
ilvex	16.17	331742	0.5136
2,4,5-T	16.75	248323	0.4836
Chloramben	16.87	302356	0.5264
,4-DB	17.46	47899	0.5309
linoseb	17.88	207969	0.4947
Bentazon	18.67	33999	0.5186
DCPA	19.15	333439	0.5059
icloram	19.30	394674	0.5140
Acifluorofen	21.97	319063	0.5114

7Y

HERBICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name : Specialized Assays SDG : 189955
Lab Code : SASSAYS

EPA Sample ID : CCV02 Date Analyzed : 5/10/00
Lab Sample ID : 8151 x200 Time Analyzed : 01:19

Instrument ID : Shimadzu3
GC Column (1) : RTX - CLPesticides ID : 30 m X 0.32 mm
Initial Calibration Date(s) : 5/9/00

Compound	RT	RT Window		Calculated Amount (ng)	Known Amount (ng)	% Diff.
		From	To			
Dalapon	4.06	4.01	4.11	480	500	-4
4-Nitrophenol	12.26	12.21	12.31	502	500	0
Dicamba	12.97	12.92	13.02	475	500	-5
MCPP	13.29	13.24	13.34	48710	50000	-3
MCPA	13.55	13.50	13.60	47724	50000	-5
Dichloroprop	14.17	14.12	14.22	479	500	-4
2,4-D	14.56	14.51	14.61	530	500	6
Pentachlorophenol	15.01	14.96	15.06	558	500	12
2,4,5-TP (Silvex)	15.86	15.81	15.91	499	500	0
2,4,5-T	16.30	16.25	16.35	542	500	8
2,4-DB	17.08	17.03	17.13	596	500	19 *
Dinoseb	18.58	18.53	18.63	579	500	16 *
Picloram	18.45	18.40	18.50	459	500	-8

Average % Difference : 7

Instrument ID : Shimadzu3
GC Column (2) : RTX - CLPesticidesII ID : 30 m X 0.32 mm
Initial Calibration Date(s) : 5/9/00

Compound	RT	RT Window		Calculated Amount (ng)	Known Amount (ng)	% Diff.
		From	To			
Dalapon	4.14	4.09	4.19	453	500	-9
4-Nitrophenol	12.23	12.18	12.28	487	500	-3
MCPP	13.55	13.50	13.60	48163	50000	-4
Dicamba	13.38	13.33	13.43	477	500	-5
MCPA	13.95	13.90	14.00	45347	50000	-9
Dichloroprop	14.50	14.45	14.55	487	500	-3
2,4-D	15.00	14.95	15.05	501	500	0
Pentachlorophenol	15.68	15.63	15.73	491	500	-2
2,4,5-TP (Silvex)	16.22	16.17	16.27	516	500	3
2,4,5-T	16.79	16.74	16.84	470	500	-6
Dinoseb	17.93	17.88	17.98	524	500	5
2,4-DB	17.50	17.45	17.55	600	500	20 *
Picloram	19.35	19.30	19.40	516	500	3

Average % Difference : 5

FORM VII HERB 1

S ecialized Assays, Inc. -- Extractable Organics : Dual ECD Report

File Name : C:\Chrom231\Shimadzu3\public\050900s.026
Sa ple Name : 8151 0.5 (3-s-jc-217-2)(3-s-ah-250-1)
Ac ired : 5/10/2000 01:19:34
Meth C:\Chrom231\Methods\8151clpshimadzu.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dalapon	4.06	277930	0.4801
3,5-Dichlorobenzoic acid	11.03	249415	0.4848
4-Nitrophenol	12.26	109077	0.5017
DCAA (s)	12.64	387729	1.0993
Dicamba	12.97	570432	0.4748
MCPP	13.29	74007	48.7100
MCPA	13.55	97818	47.7241
Dichloroprop	14.17	202524	0.4788
2,4-D	14.56	215489	0.5296
Pentachlorophenol	15.01	2482796	0.5575
Silvex	15.86	830342	0.4994
Chloramben	16.18	319886	0.4086
2,4,5-T	16.30	1208542	0.5421
2,4-DB	17.08	157948	0.5962
Bentazon	18.20	10398	0.4540
Picloram	18.45	638991	0.4587
Dinoseb	18.58	953090	0.5789
DCPA	18.96	1186870	0.5598
Acifluorfen	22.28	873782	0.5253

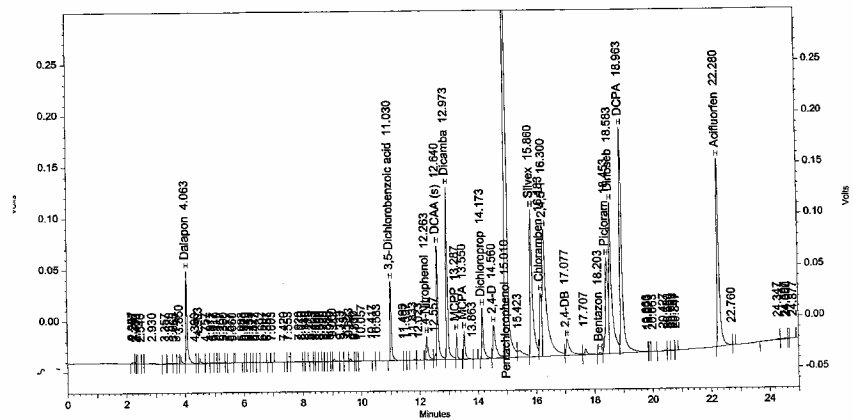
C a l B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dalapon	4.14	93382	0.4526
3,5-Dichlorobenzoic acid	11.15	92906	0.4813
4-Nitrophenol	12.23	47469	0.4873
DCAA (s)	13.06	150503	1.1705
Dicamba	13.38	192635	0.4773
MCPP	13.55	39468	48.1625
MCPA	13.95	44367	45.3469
Dichloroprop	14.50	82116	0.4872
2,4-D	15.00	87006	0.5013
Pentachlorophenol	15.68	669868	0.4906
Silvex	16.22	333063	0.5156
2,4,5-T	16.79	241082	0.4695
Chloramben	16.91	316482	0.5510
2,4-DB	17.50	54165	0.6003
Dinoseb	17.93	220432	0.5244
Bentazon	18.72	36974	0.5639
DCPA	19.21	327823	0.4973
Picloram	19.35	396170	0.5160
Acifluorofen	22.03	316202	0.5068

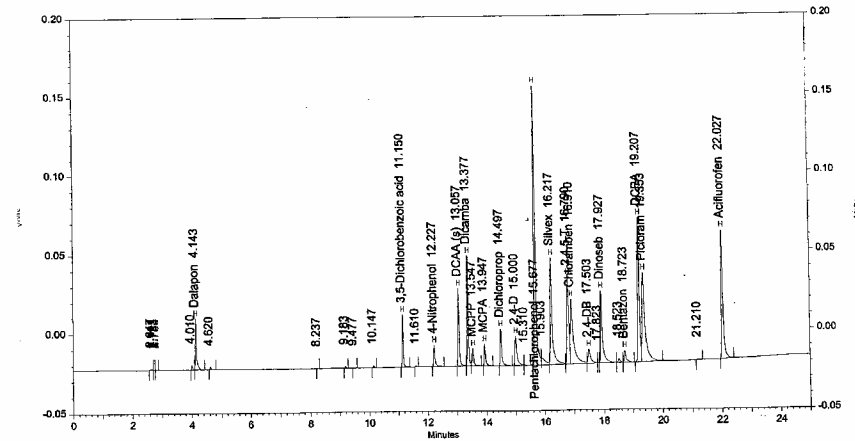
S ecialized Assays, Inc. -- Extractable Organics : Dual ECD Report 520

ile Name : C:\Chrom231\Shimadzu3\public\050900s.026
a ple Name : 8151 0.5 (3-s-jc-217-2)(3-s-ah-250-1)
q red : 5/10/2000 01:19:34
Methr C:\Chrom231\Methods\8151clpshimadzu.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)



Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)



SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

BLANK

Matrix: Soil
% Dry Weight: 100
Units: UG/KG
Dilution Factor: 1
Analysis Method: SW8151
Delivery Group: 189955
Instrument: SHIMADZU-3
Grams Extracted: 30.0 g
Extract Vol: 10.0 ml

Lab Sample ID: BLANK
Date Sampled:
Date Received:
Analysis Date: 5/ 9/00
Analysis Time: 17:08
Sample GC Group: 2328

Extraction Date: 5/ 1/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION Col#1	Flag	Col#2	Flag
94-75-7	2,4-D	167	U	167	U
93-76-5	2,4,5-T	17	U	17	U
93-72-1	2,4,5-TP (Silvex)	17	U	17	U
75-99-0	Dalapon	333	U	333	U
94-82-6	2,4-DB	167	U	167	U
1918-00-9	Dicamba	17	U	17	U
120-36-5	Dichloroprop	167	U	167	U
88-85-7	Dinoseb	83	U	83	U
94-74-6	MCPA	16700	U	16700	U
7085-19-0	MCPP	16700	U	16700	U
87-86-5	Pentachlorophenol	17	U	17	U
87-86-5	4-Nitrophenol	17	U	17	U

COPY 1

Specialized Assays, Inc. -- Extractable Organics : Dual ECD Report 523

File Name : C:\Chrom231\Shimadzu3\public\050900s.010
Sample Name : 12308sbh
Acquired : 5/9/2000 17:08:18
Method : C:\Chrom231\Methods\8151clpshimadzudoc.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dalapon			0.0000 BDL
3,5-Dichlorobenzoic acid	10.95	7235	0.0141
4-Nitrophenol	12.22	5456	0.0251
DCAA (s)	12.57	134422	0.3811
Dicamba			0.0000 BDL
MCPP			0.0000 BDL
MCPA			0.0000 BDL
Dichloroprop	14.09	3268	0.0077
2,4-D	14.52	970	0.0024
Pentachlorophenol	14.90	16233	0.0036
Silvex	15.76	1865	0.0011
Chloramben	16.14	1543	0.0496
2,4,5-T	16.24	956	0.0004
2,4-DB			0.0000 BDL
Bentazon	18.10	3025	0.1922
Picloram	18.38	6115	0.0044
Dinoseb	18.54	4648	0.0028
DCPA	18.94	7278	0.0034
Acifluorfen	22.20	2249	0.0014

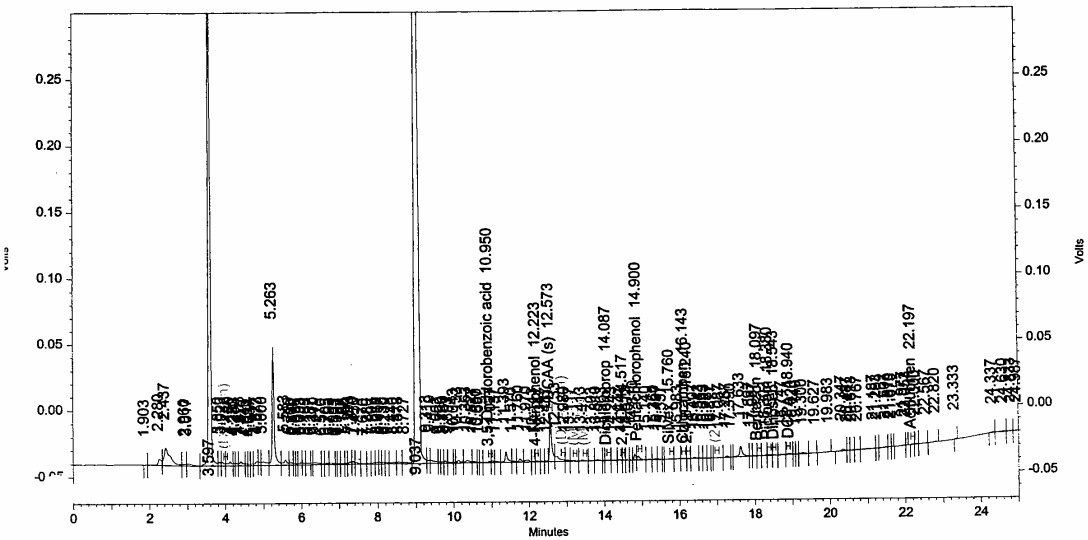
Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dalapon	4.08	2125	0.0103
3,5-Dichlorobenzoic acid	11.13	1068	0.0055
4-Nitrophenol	12.17	729	0.0075
DCAA (s)	12.99	58580	0.4556
Dicamba	13.29	3246	0.0080
MCPP			0.0000 BDL
MCPA			0.0000 BDL
Dichloroprop			0.0000 BDL
2,4-D			0.0000 BDL
Pentachlorophenol	15.60	407	0.0003
Silvex	16.20	524	0.0008
2,4,5-T	16.73	752	0.0015
Chloramben	16.84	1384	0.0024
2,4-DB			0.0000 BDL
Dinoseb	17.90	1477	0.0035
Bentazon			0.0000 BDL
DCPA	19.12	2515	0.0038
Picloram	19.30	3967	0.0052
Acifluorofen	21.95	893	0.0014

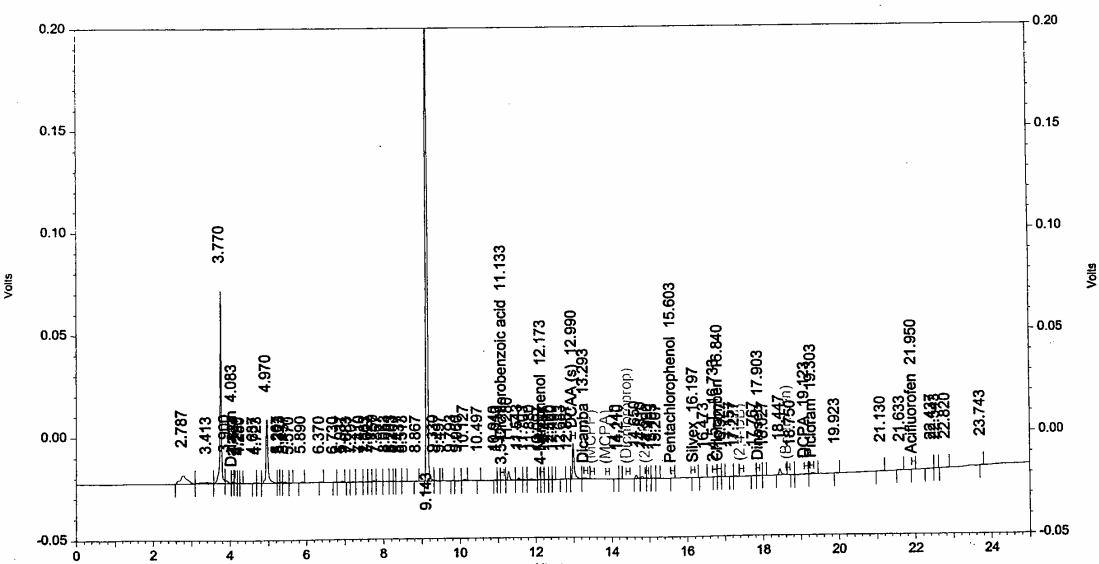
Specialized Assays, Inc. -- Extractable Organics : Dual ECD Report

File Name : C:\Chrom231\Shimadzu3\public\050900s.010
Sample Name : 12308sbh
Acquired : 5/9/2000 17:08:18
Method : C:\Chrom231\Methods\8151clpshimadzudoc.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)



Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)



1Y

HERBICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name : Specialized Assays
Lab Code : SASSAYS SDG : 189955

264720MS

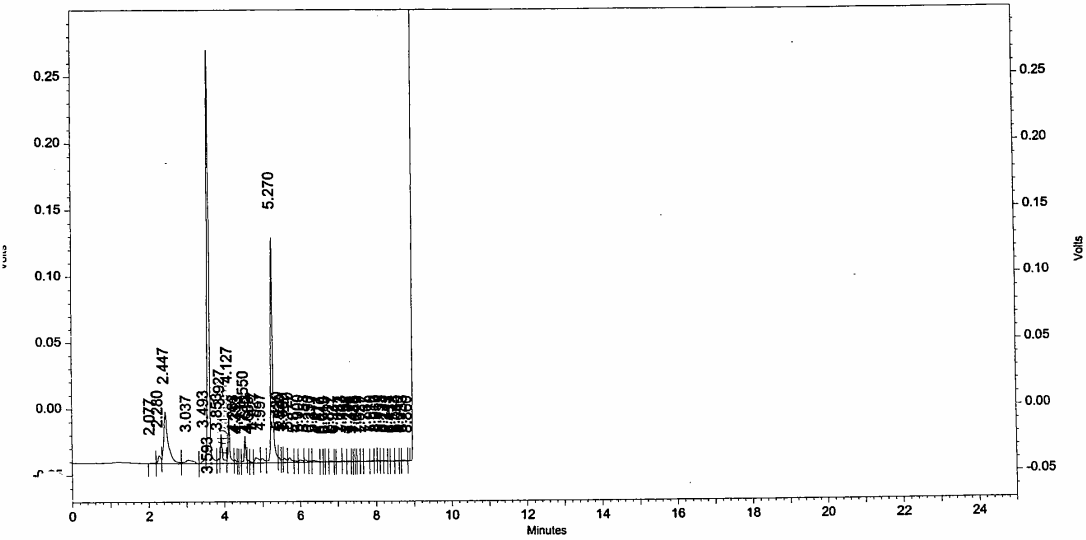
Matrix (soil/water) :	Soil			
Sample wt/vol :	30	(g)		
%Moisture :	16	%	Decanted (Y/N) :	No
Extraction :	Sonc.		Lab Sample ID :	12309ssh
Extract Volume :	10000	(uL)	Lab File ID :	050900s.011
Injection Volume :	1.0	(uL)	Date Received :	4/28/00
GPC Cleanup (Y/N) :	No		Date Extracted :	5/1/00
pH :	0		Date Analyzed :	5/9/00
Sulfur Cleanup (Y/N) :	No		Dilution Factor :	1

CAS NO.	COMPOUND	CONCENTRATION UNITS : (ug/kg)	Q
94-75-7	2,4-D	142.06	U
75-99-0	DALAPON	33.61	U
94-82-6	2,4-DB	146.23	U
1918-00-9	DICAMBA	108.33	U
120-36-5	DICHLOROPROP	130.67	U
88-85-7	DINOSEB	16.23	U
94-74-6	MCPA	12441.07	U
7085-19-0	MCPP	10204.44	U
93-76-5	2,4,5-T	136.16	U
93-72-1	2,4,5-TP (SILVEX)	124.69	U
87-86-5	PENTACHLOROPHENOL	54.36	U
100-02-7	4-NITROPHENOL	134.84	U
1918-02-1	PICLORAM	90.28	U

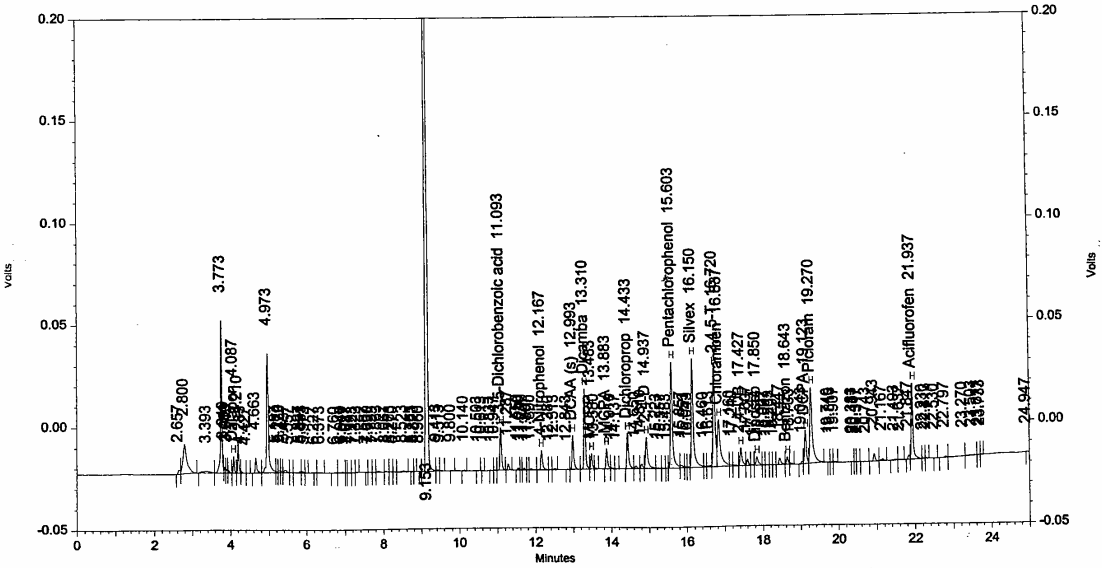
Specialized Assays, Inc. -- Extractable Organics : Dual ECD Report

File Name : C:\Chrom231\Shimadzu3\public\050900s.011
Sample Name : 12309ssh
Acquired : 5/9/2000 17:39:07
Method : C:\Chrom231\Methods\8151clpshimadzudoc.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)



Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)



000642

Specialized Assays, Inc. -- Extractable Organics : Dual ECD Report 526

File Name : C:\Chrom231\Shimadzu3\public\050900s.011
Sample Name : 12309ssh
Acquired : 5/9/2000 17:39:07
Method : C:\Chrom231\Methods\8151clpshimadzudoc.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dalapon			0.0000 BDL
3,5-Dichlorobenzoic acid	11.02	58659	0.1140
4-Nitrophenol			0.0000 BDL
DCAA (s)	12.61	116395	0.3300
Dicamba	12.93	163660	0.1362
MCPP			0.0000 BDL
MCPA	13.49	5892	2.8746
Dichloroprop			0.0000 BDL
2,4-D			0.0000 BDL
Pentachlorophenol	14.96	34277	0.0077
Silvex	15.84	51769	0.0311
Chloramben			0.0000 BDL
2,4,5-T	16.27	111171	0.0499
2,4-DB			0.0000 BDL
Bentazon	18.11	11892	0.5071
Picloram			0.0000 BDL
Dinoseb			0.0000 BDL
DCPA	18.92	10398	0.0049
Acifluorfen	22.21	17770524	10.6832

Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dalapon	4.09	17477	0.0847
3,5-Dichlorobenzoic acid	11.09	58379	0.3024
4-Nitrophenol	12.17	33107	0.3398
DCAA (s)	12.99	50884	0.3957
Dicamba	13.31	110178	0.2730
MCPP	13.48	21073	25.7152
MCPA	13.88	30674	31.3515
Dichloroprop	14.43	55495	0.3293
2,4-D	14.94	62126	0.3580
Pentachlorophenol	15.60	187062	0.1370
Silvex	16.15	202957	0.3142
2,4,5-T	16.72	176192	0.3431
Chloramben	16.84	132315	0.2304
2,4-DB	17.43	33246	0.3685
Dinoseb	17.85	17204	0.0409
Bentazon	18.64	12268	0.1871
DCPA	19.12	51114	0.0775
Picloram	19.27	174653	0.2275
Acifluorofen	21.94	116630	0.1869

1Y

HERBICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name : Specialized Assays
Lab Code : SASSAYS
SDG : 189955

264720MSD

Matrix (soil/water) : Soil
Sample wt/vol : 31 (g)
%Moisture : 16 %
Extraction : Sonc.
Extract Volume : 10000 (uL)
Injection Volume : 1.0 (uL)
GPC Cleanup (Y/N) : No
pH : 0
Sulfur Cleanup (Y/N) : No

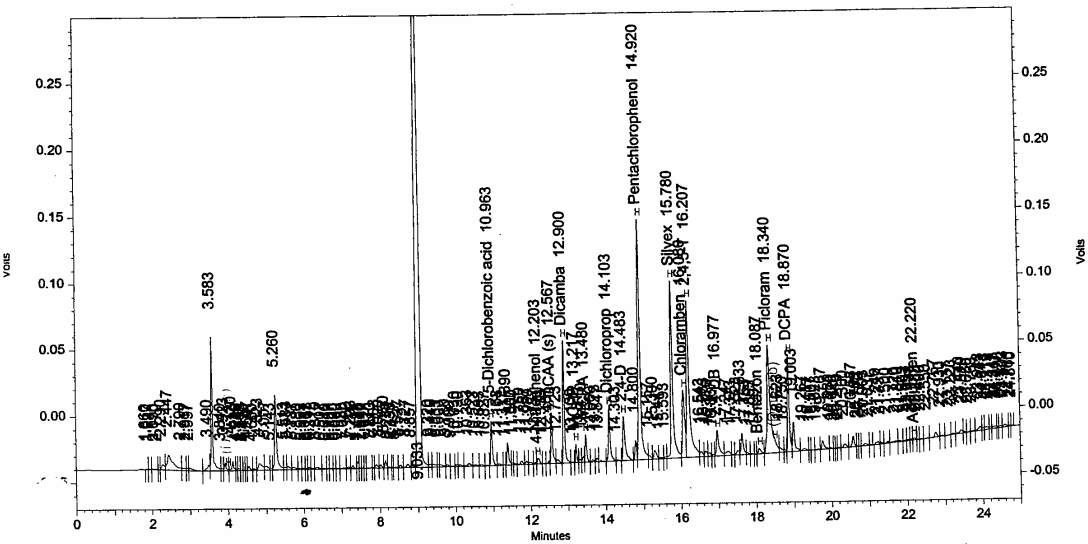
Decanted (Y/N) : No
Lab Sample ID : 12310ssh
Lab File ID : 050900s.012
Date Received : 4/28/00
Date Extracted : 5/1/00
Date Analyzed : 5/9/00
Dilution Factor : 1

CAS NO.	COMPOUND	CONCENTRATION UNITS : (ug/kg)	Q
94-75-7	2,4-D	135.93	U
75-99-0	DALAPON	8.37	U
94-82-6	2,4-DB	146.20	U
1918-00-9	DICAMBA	106.80	U
120-36-5	DICHLOROPROP	128.49	U
88-85-7	DINOSEB	2.42	U
94-74-6	MCPA	11812.87	U
7085-19-0	MCPP	9192.79	U
93-76-5	2,4,5-T	137.12	U
93-72-1	2,4,5-TP (SILVEX)	123.82	U
87-86-5	PENTACHLOROPHENOL	67.67	U
100-02-7	4-NITROPHENOL	34.71	U
1918-02-1	PICLORAM	143.55	U

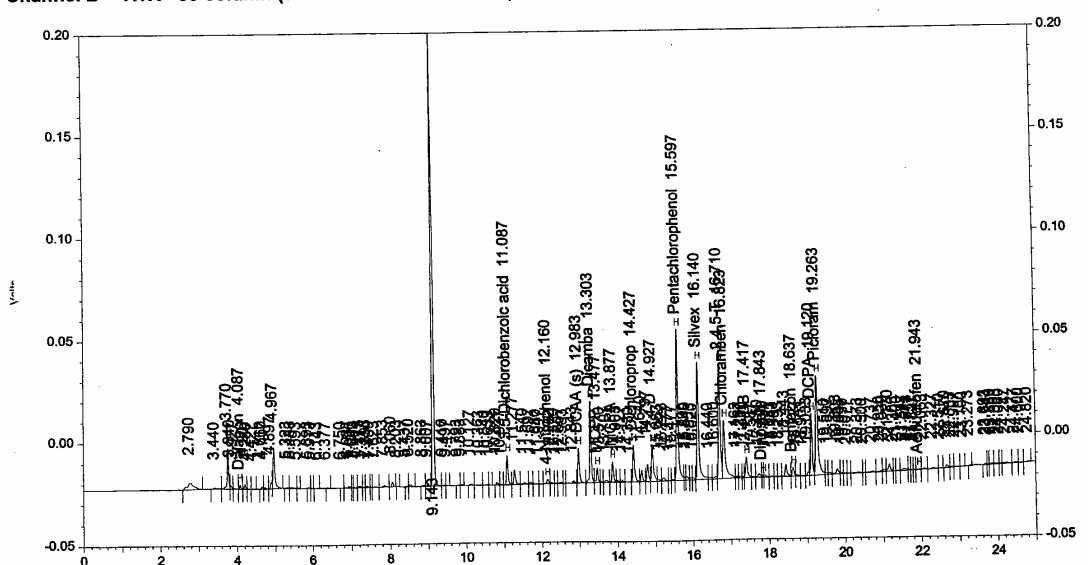
Specialized Assays, Inc. -- Extractable Organics : Dual ECD Report

File Name : C:\Chrom231\Shimadzu3\public\050900s.012
Sample Name : 12310ssh
Acquired : 5/9/2000 18:09:54
Method : C:\Chrom231\Methods\8151clpshimadzudoc.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)



Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)



Specialized Assays, Inc. -- Extractable Organics : Dual ECD Report 529

ile Name : C:\Chrom231\Shimadzu3\public\050900s.012
ar-ple Name : 12310ssh
qu ed : 5/9/2000 18:09:54
lethc C:\Chrom231\Methods\8151clpshimadzudoc.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dalapon			0.0000 BDL
3,5-Dichlorobenzoic acid	10.96	104233	0.2026
4-Nitrophenol	12.20	19648	0.0904
DCAA (s)	12.57	120619	0.3420
Dicamba	12.90	270813	0.2254
MCPP	13.22	36370	23.9380
MCPA	13.48	60664	29.5971
Dichloroprop	14.10	136273	0.3222
2,4-D	14.48	142037	0.3491
Pentachlorophenol	14.92	726373	0.1631
Silvex	15.78	536047	0.3224
Chloramben	16.08	229545	0.3067
2,4,5-T	16.21	621549	0.2788
2,4-DB	16.98	91071	0.3438
Bentazon	18.09	19878	0.7906
Picloram	18.34	520781	0.3738
Dinoseb			0.0000 BDL
DCPA	18.87	231896	0.1094
Acifluorfen	22.22	7267	0.0044

Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dalapon	4.09	4504	0.0218
3,5-Dichlorobenzoic acid	11.09	42045	0.2178
4-Nitrophenol	12.16	8141	0.0836
DCAA (s)	12.98	49297	0.3834
Dicamba	13.30	112249	0.2781
MCPP	13.48	21716	26.4999
MCPA	13.88	30096	30.7607
Dichloroprop	14.43	56388	0.3346
2,4-D	14.93	61426	0.3539
Pentachlorophenol	15.60	240609	0.1762
Silvex	16.14	196094	0.3036
2,4,5-T	16.71	183342	0.3571
Chloramben	16.82	132680	0.2310
2,4-DB	17.42	34348	0.3807
Dinoseb	17.84	2638	0.0063
Bentazon	18.64	14020	0.2138
DCPA	19.12	87974	0.1335
Picloram	19.26	204707	0.2666
Acifluorofen	21.94	1889	0.0030

1Y

HERBICIDE ORGANICS ANALYSIS DATA SHEET

Lab Name : Specialized Assays
Lab Code : SASSAYS
SDG : 189955

CONTROLS

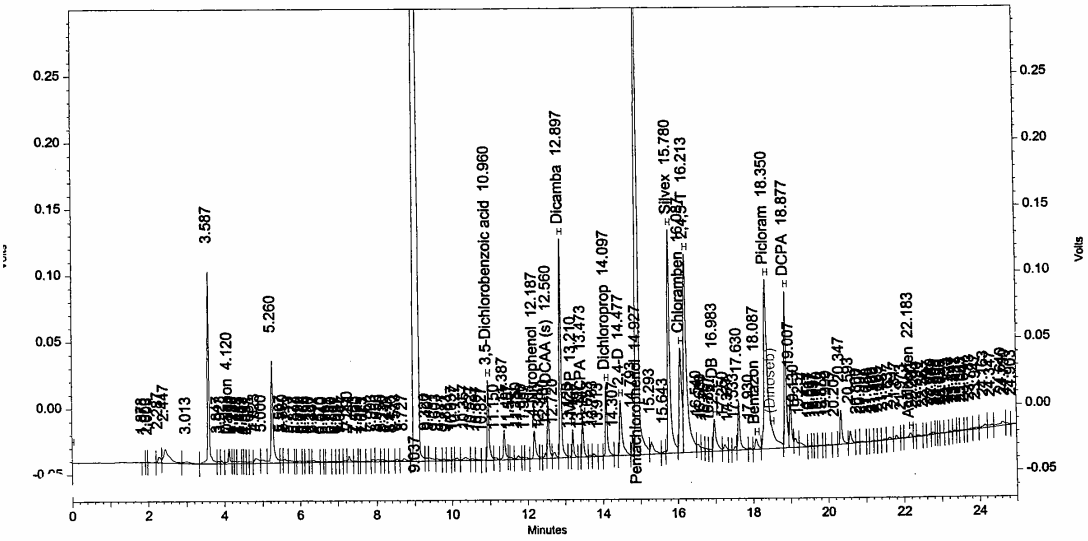
Matrix (soil/water) :	Soil			
Sample wt/vol :	30	(g)		
%Moisture :	0	%	Decanted (Y/N) :	No
Extraction :	Sonc.		Lab Sample ID :	13361lcs
Extract Volume :	10000	(uL)	Lab File ID :	050900s.013
Injection Volume :	1.0	(uL)	Date Received :	4/28/00
GPC Cleanup (Y/N) :	No		Date Extracted :	5/1/00
pH :	0		Date Analyzed :	5/9/00
Sulfur Cleanup (Y/N) :	No		Dilution Factor :	1

CAS NO.	COMPOUND	CONCENTRATION UNITS : (ug/kg)	Q
94-75-7	2,4-D	160.41	U
75-99-0	DALAPON	15.22	U
94-82-6	2,4-DB	180.35	U
1918-00-9	DICAMBA	158.97	U
120-36-5	DICHLOROPROP	145.73	U
88-85-7	DINOSEB	1.43	U
94-74-6	MCPA	14044.15	U
7085-19-0	MCPP	12754.89	U
93-76-5	2,4,5-T	158.87	U
93-72-1	2,4,5-TP (SILVEX)	150.12	U
87-86-5	PENTACHLOROPHENOL	146.81	U
100-02-7	4-NITROPHENOL	132.49	U
1918-02-1	PICLORAM	163.27	U

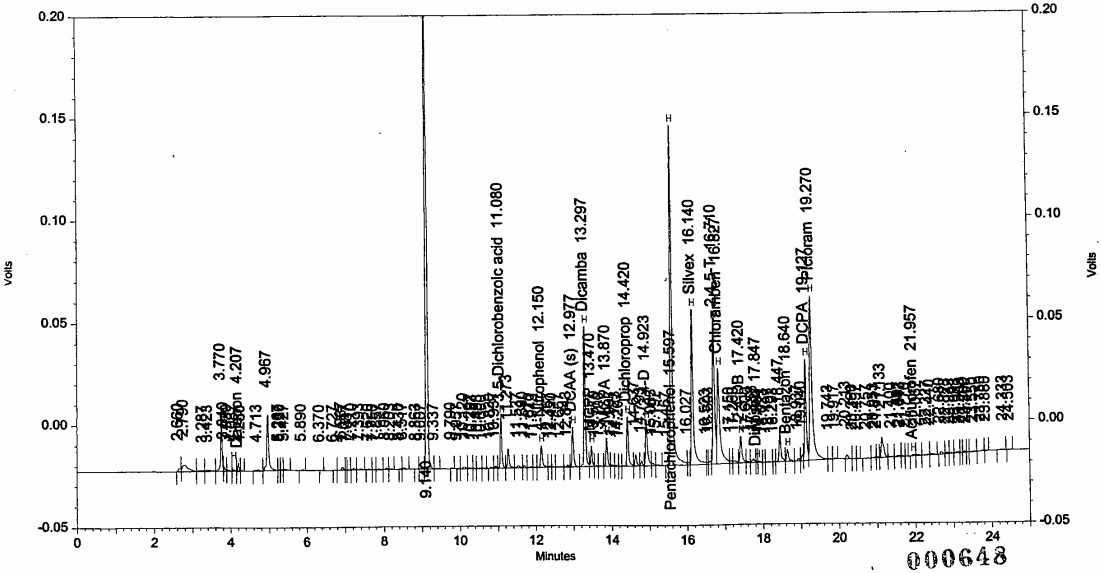
Specialized Assays, Inc. -- Extractable Organics : Dual ECD Report

File Name : C:\Chrom231\Shimadzu3\public\050900s.013
Sample Name : 13361lcs
Acquired : 5/9/2000 18:40:43
Method : C:\Chrom231\Methods\8151clpshimadzudoc.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)



Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)



Worklist: 7226 Worklist format: herbsext
Created on: 4/28/00 by: C.Cothron

HERB So.1 533

	Log number	Due Date	Due Time	Target Date	Project	State
1.	blank 123008 SBH					
2.	00-A58004	5/15/00		5/ 8/00	189955	IN
3.	00-A58005	5/15/00		5/ 8/00	189955	IN
4.	00-A58006	5/15/00		5/ 8/00	189955	IN
5.	00-A58007	5/15/00		5/ 8/00	189955	IN
6.	00-A58008	5/15/00		5/ 8/00	189955	IN
7.	00-A58009	5/15/00		5/ 8/00	189955	IN
8.	00-A58010	5/15/00		5/ 8/00	189955	IN
9.	00-A58011	5/15/00		5/ 8/00	189955	IN
10.	00-A58012	5/15/00		5/ 8/00	189955	IN
11.	00-A58013	5/15/00		5/ 8/00	189955	IN
12.	00-A58073	5/15/00		5/ 8/00	189955	IN
13.	Spike 123009 SSH					
14.	mspkdup 123105SH					
15.	known					

133612 CS

SW-846 DOC

PERFORMED BY: CT
ENTERED BY: CT
VERIFIED BY: JR
FINAL APPROVAL

000649

Specialized Assays, Inc. -- Extractable Organics : Dual ECD Report 532

File Name : C:\Chrom231\Shimadzu3\public\050900s.013
Sample Name : 13361lcs
Acquired : 5/9/2000 18:40:43
Method C:\Chrom231\Methods\8151clpshimadzudoc.met

Channel A -- RTX - 5 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dalapon	4.12	37233	0.0188
3,5-Dichlorobenzoic acid	10.96	188365	0.3661
4-Nitrophenol	12.19	86417	0.3975
DCAA (s)	12.56	137194	0.3890
Dicamba	12.90	518208	0.4314
MCPP	13.21	58137	38.2647
MCPA	13.47	84841	41.3928
Dichloroprop	14.10	180291	0.4262
2,4-D	14.48	195810	0.4812
Pentachlorophenol	14.93	1946031	0.4369
Silvex	15.78	748727	0.4503
Chloramben	16.09	381823	0.4785
2,4,5-T	16.21	891353	0.3998
2,4-DB	16.98	123768	0.4672
Bentazon	18.09	41477	1.5575
Picloram	18.35	951517	0.6830
Dinoseb			0.0000 BDL
DICPA	18.88	413689	0.1951
Acifluorfen	22.18	17508	0.0105

Channel B -- RTX - 50 column (0.53 mm X 30 m X 0.5 um)

Name	Retention Time	Area	ESTD concentration
Dalapon	4.21	9418	0.0456
3,5-Dichlorobenzoic acid	11.08	71393	0.3699
4-Nitrophenol	12.15	37005	0.3799
DCAA (s)	12.98	58708	0.4566
Dicamba	13.30	192488	0.4769
MCPP	13.47	29106	35.5179
MCPA	13.87	41222	42.1325
Dichloroprop	14.42	73687	0.4372
2,4-D	14.92	80733	0.4652
Pentachlorophenol	15.60	601378	0.4404
Silvex	16.14	289636	0.4484
2,4,5-T	16.71	244736	0.4766
Chloramben	16.83	240586	0.4189
2,4-DB	17.42	48816	0.5410
Dinoseb	17.85	1794	0.0043
Bentazon	18.64	23163	0.3533
DICPA	19.13	151426	0.2297
Picloram	19.27	376112	0.4898
Acifluorofen	21.96	3186	0.0051

SOIL HERBICIDES EXTRACTIONS

Worklist #: 7226 Date Created: 4/28/00

Analyst: C.Cothron Date Extracted: 5/1/00

Position	Sample ID	EXTRACTION	gm. Ext'd	Ext. Vol
1.	blank	G	30.0	10.0
2.	00-A58004		30.66	
ALSO ADD 1,2-DCPE				
3.	00-A58005		29.98	
ALSO ADD 1,2-DCPE				
4.	00-A58006		30.79	
ALSO ADD 1,2-DCPE				
5.	00-A58007		30.35	
ALSO ADD 1,2-DCPE				
6.	00-A58008		30.03	
ALSO ADD 1,2-DCPE				
7.	00-A58009		29.55	
ALSO ADD 1,2-DCPE				

METHYLENE CHLORIDE: P5DY19-1
ACETONE: P5CT15-1
HEXANE:
DIETHYL ETHER: P4DY54-1
1,1,2-TRICHLOROTRIFLUOROETHANE (freon):
METHANOL: P5L43-3
ACETONITRILE:
SILICA GEL:
TOLUENE: P3RF61-1
SODIUM CHLORIDE:
PENTANE:
FLORISIL:
SODIUM HYDROXIDE:
SULFURIC ACID: P3RF78-2
SODIUM SULFATE(anhydrous): P5CT18-3
HYDROCHLORIC ACID: P4BM31-1
EDTA:
BORON TRIFLUORIDE/METHANOL(BF-3):
SODIUM SULFATE (aqueous):
POTASSIUM HYDROXIDE(37%): R3NW39-2
SULFURIC ACID(25%):
HEXANE/ACETONE MIX (70:30):

SURROGATE: 4WAM221-2 → 1.0mL } NSW

SPIKE: P4RF11-3 50µL

LCS:

Oil and Grease Water Bath Temperature:

Soxhlet Extraction Start Time:———— Finish Time:————

pH adjustment: NaOH addition:———— Sulfuric Acid addition:————

Secondary verification of Samples, Spike, Surrogate, LCS and extraction date by: 5/1/00

SOIL HERBICIDES EXTRACTIONS

Wc klist #: 7226 Date Created: 4/28/00

Ana' st: C.Cothron Date Extracted:

Position	Sample ID	EXTRACTION	gm. Ext'd	Ext. Vol
15.	known	Lab Control Sample:		
		C	30.0	10.0

SOIL HERBICIDES EXTRACTIONS

Worklist #: 7226 Date Created: 4/28/00

Analyst: C.Cothron Date Extracted:

Position	Sample ID	EXTRACTION	gm. Ext'd	Ext. Vol
8.	00-A58010	G	29.65	10.0
ALSO ADD 1,2-DCPE				
9.	00-A58011		30.43	
ALSO ADD 1,2-DCPE				
10.	00-A58012		30.86	
ALSO ADD 1,2-DCPE				
11.	00-A58013		30.75	
ALSO ADD 1,2-DCPE				
12.	00-A58073		30.54	
13.	Spike	Original: 6	Spike solution: 29.95	
14.	mspkdup	Original: 13	Spike solution: 30.85	

Sequence Summary Report

equence : C:\Chrom231\Sequence\050900s.seq
Us : System
P d : 5/10/2000 15:03:09

Start Time	**ECD A - RTX5**
Sample ID	8151 0.05 (3-s-jc-217-2)(3-s-ah-250-1)
Filename	C:\Chrom231\Shimadzu3\public\050900s.002
Date	5/9/2000 13:02:18

Start Time	**ECD A - RTX5**
Sample ID	8151 0.2 (3-s-jc-217-2)(3-s-ah-250-1)
Filename	C:\Chrom231\Shimadzu3\public\050900s.003
Date	5/9/2000 13:33:03

Start Time	**ECD A - RTX5**
Sample ID	8151 0.5 (3-s-jc-217-2)(3-s-ah-250-1)
Filename	C:\Chrom231\Shimadzu3\public\050900s.004
Date	5/9/2000 14:03:40

Start Time	**ECD A - RTX5**
ple ID	8151 0.7 (3-s-jc-217-2)(3-s-ah-250-1)
ename	C:\Chrom231\Shimadzu3\public\050900s.005
Date	5/9/2000 14:34:10

Start Time	**ECD A - RTX5**
Sample ID	8151 1.0 (3-s-jc-217-2)(3-s-ah-250-1)
Filename	C:\Chrom231\Shimadzu3\public\050900s.006
Date	5/9/2000 15:04:57

Start Time	**ECD A - RTX5**
Sample ID	herb verify 0.5 (3-s-jc-178-3)
Filename	C:\Chrom231\Shimadzu3\public\050900s.007
Date	5/9/2000 15:35:47

Start Time	**ECD A - RTX5**
Sample ID	8151 1.0 (3-s-jc-217-2)(3-s-ah-250-1)
Filename	C:\Chrom231\Shimadzu3\public\050900s.008
Date	5/9/2000 16:06:17

Start Time	**ECD A - RTX5**
Sample ID	8151 1.0 (3-s-jc-217-2)(3-s-ah-250-1)

Sequence Summary Report

equence : C:\Chrom231\Sequence\050900s.seq
U : System
P ed : 5/10/2000 15:03:09

Filename	C:\Chrom231\Shimadzu3\public\050900s.009
Date	5/9/2000 16:37:20

Start Time	**ECD A - RTX5**
Sample ID	12308sbh
Filename	C:\Chrom231\Shimadzu3\public\050900s.010
Date	5/9/2000 17:08:18

Start Time	**ECD A - RTX5**
Sample ID	12309ssh
Filename	C:\Chrom231\Shimadzu3\public\050900s.011
Date	5/9/2000 17:39:07

Start Time	**ECD A - RTX5**
Sample ID	12310ssh
Filename	C:\Chrom231\Shimadzu3\public\050900s.012
e	5/9/2000 18:09:54

Start Time	**ECD A - RTX5**
Sample ID	13361lcs
Filename	C:\Chrom231\Shimadzu3\public\050900s.013
Date	5/9/2000 18:40:43

Start Time	**ECD A - RTX5**
Sample ID	58004
Filename	C:\Chrom231\Shimadzu3\public\050900s.014
Date	5/9/2000 19:11:27

Start Time	**ECD A - RTX5**
Sample ID	58005
Filename	C:\Chrom231\Shimadzu3\public\050900s.015
Date	5/9/2000 19:42:15

art Time	**ECD A - RTX5**
ample ID	58006
Filename	C:\Chrom231\Shimadzu3\public\050900s.016
Date	5/9/2000 20:12:57

Sequence Summary Report

Sequence : C:\Chrom231\Sequence\050900s.seq
User : System
Created : 5/10/2000 15:03:09

Start Time	**ECD A - RTX5**
Sample ID	58007
Filename	C:\Chrom231\Shimadzu3\public\050900s.017
Date	5/9/2000 20:43:45

Start Time	**ECD A - RTX5**
Sample ID	58008
Filename	C:\Chrom231\Shimadzu3\public\050900s.018
Date	5/9/2000 21:14:31

Start Time	**ECD A - RTX5**
Sample ID	58009
Filename	C:\Chrom231\Shimadzu3\public\050900s.019
Date	5/9/2000 21:45:15

Start Time	**ECD A - RTX5**
Sample ID	8151 0.5 (3-s-jc-217-2)(3-s-ah-250-1)
Filename	C:\Chrom231\Shimadzu3\public\050900s.020
Date	5/9/2000 22:16:01

Start Time	**ECD A - RTX5**
Sample ID	58010
Filename	C:\Chrom231\Shimadzu3\public\050900s.021
Date	5/9/2000 22:46:50

Start Time	**ECD A - RTX5**
Sample ID	58011
Filename	C:\Chrom231\Shimadzu3\public\050900s.022
Date	5/9/2000 23:17:32

Start Time	**ECD A - RTX5**
Sample ID	58012
Filename	C:\Chrom231\Shimadzu3\public\050900s.023
Date	5/9/2000 23:48:15

Sequence Summary Report

Sequence : C:\Chrom231\Sequence\050900s.seq
U[illegible] : System
[illegible]ed : 5/10/2000 15:03:09

Start Time	**ECD A - RTX5**
Sample ID	58013
Filename	C:\Chrom231\Shimadzu3\public\050900s.024
Date	5/10/2000 00:18:46

Start Time	**ECD A - RTX5**
Sample ID	58073
Filename	C:\Chrom231\Shimadzu3\public\050900s.025
Date	5/10/2000 00:49:18

Start Time	**ECD A - RTX5**
Sample ID	8151 0.5 (3-s-jc-217-2)(3-s-ah-250-1)
Filename	C:\Chrom231\Shimadzu3\public\050900s.026
Date	5/10/2000 01:19:34

[illegible]rt Time	**ECD A - RTX5**
[illegible]mple ID	
Filename	
Date	
	Min
	0.00

Start Time	**ECD A - RTX5**
Sample ID	
Filename	
Date	
	Max
	0.00

Start Time	**ECD A - RTX5**
Sample ID	
Filename	
Date	
	Mean
	0.00

Start Time	**ECD A - RTX5**
Sample ID	
Filename	
Date	
	Std Dev
	0.000

Start Time	**ECD A - RTX5**

Sequence Summary Report

Sequence : C:\Chrom231\Sequence\050900s.seq
[illegible] : System
[illegible]ted : 5/10/2000 15:03:09

Sample ID Filename Date	%RSD
	0.000

MOISTURE by CLP

SUMMARY DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

189955

542

PERCENT MOISTURE

Work klist #:7225
Analyst: C.Cothron

Date Created: 4/28/00
Date Analyzed: 5/2/00 CT

Oven Temperature: 105°C

	Sample #	Pan Weight (g)	Pan+Sample Weight (g)	Final Weight (g)	%Dry Weight
1.	00-A58004	1.00	14.95	13.13	87

Time Into Oven: 19:20
Time Out: 07:00

ALSO ADD 1,2-DCPE

2.	00-A58005	.99	~~14.14~~ 14.14 CT	8.50	57

Time Into Oven: _____
Time Out: _____

ALSO ADD 1,2-DCPE

3.	00-A58006	.99	14.81	12.63	84

Time Into Oven: _____
Time Out: _____

ALSO ADD 1,2-DCPE

4.	00-A58007	.99	13.95	11.47	81

Time Into Oven: _____
Time Out: _____

ALSO ADD 1,2-DCPE

5.	00-A58008	.99	13.84	11.76	84

Time Into Oven: _____
Time Out: _____

ALSO ADD 1,2-DCPE

PERCENT MOISTURE

Worklist #:7225
Analyst: C.Cothron

Date Created: 4/28/00
Date Analyzed:

Oven Temperature: _____

	Sample #	Pan Weight (g)	Pan+Sample Weight (g)	Final Weight (g)	%Dry Weight
6.	00-A58009	~~.95~~ .99 KT	20.08	17.12	84

Time Into Oven: _____
Time Out: _____

ALSO ADD 1,2-DCPE

7.	00-A58010	.99	18.30	15.93	86

Time Into Oven: _____
Time Out: _____

ALSO ADD 1,2-DCPE

8.	00-A58011	.99	19.11	16.81	87

Time Into Oven: _____
Time Out: _____

ALSO ADD 1,2-DCPE

9.	00-A58012	.99	15.83	12.98	81

Time Into Oven: _____
Time Out: _____

ALSO ADD 1,2-DCPE

10.	00-A58013	.99	15.61	9.35	57

Time Into Oven: _____
Time Out: _____

ALSO ADD 1,2-DCPE

PERCENT MOISTURE

Worklist #:7225
Analyst: C.Cothron

Date Created: 4/28/00
Date Analyzed:

Oven Temperature: _____

	Sample #	Pan Weight (g)	Pan+Sample Weight (g)	Final Weight (g)	%Dry Weight
11.	00-A58073	.99	18.19	9.81	72

Time Into Oven: _____
Time Out: _____

TESTAMERICA

AMMONIA PREP 2000

DATE	ANALYST	SAMPLE ID	INITIAL VOL/WT	FINAL VOL	DILUT	FLAGS	PREP BATCH	Chlorine Check	LCS MS/MSD Std #	pH
5/10		OP 264888	50ml	50ml	—		#426	✓	C-434	✓
		264898								
		264899	5ml → 50ml		10X					
		ms	50ml							
		msd								
		LIN 264728								
		264730								
		IBP 264882	5ml → 50ml		10X					
5/10		Blank	1.04g	50ml			#117	✓	C-439	
		LCS	1.02g							
		CP 264716	1.10g							
		264717	1.10g							
		264718	1.08g							
		264719	1.06g							
		264720	1.04g							
		264721	1.11g							
		264722	1.06g							
		264723	1.07g							
		264724	1.05g							
		264725	1.99g							
		264726	1.16g							
		ms	1.11g							
		msd	1.15g							

Start 1420

Start 2:40pm

Boric Acid #294

Borate Buffer #237

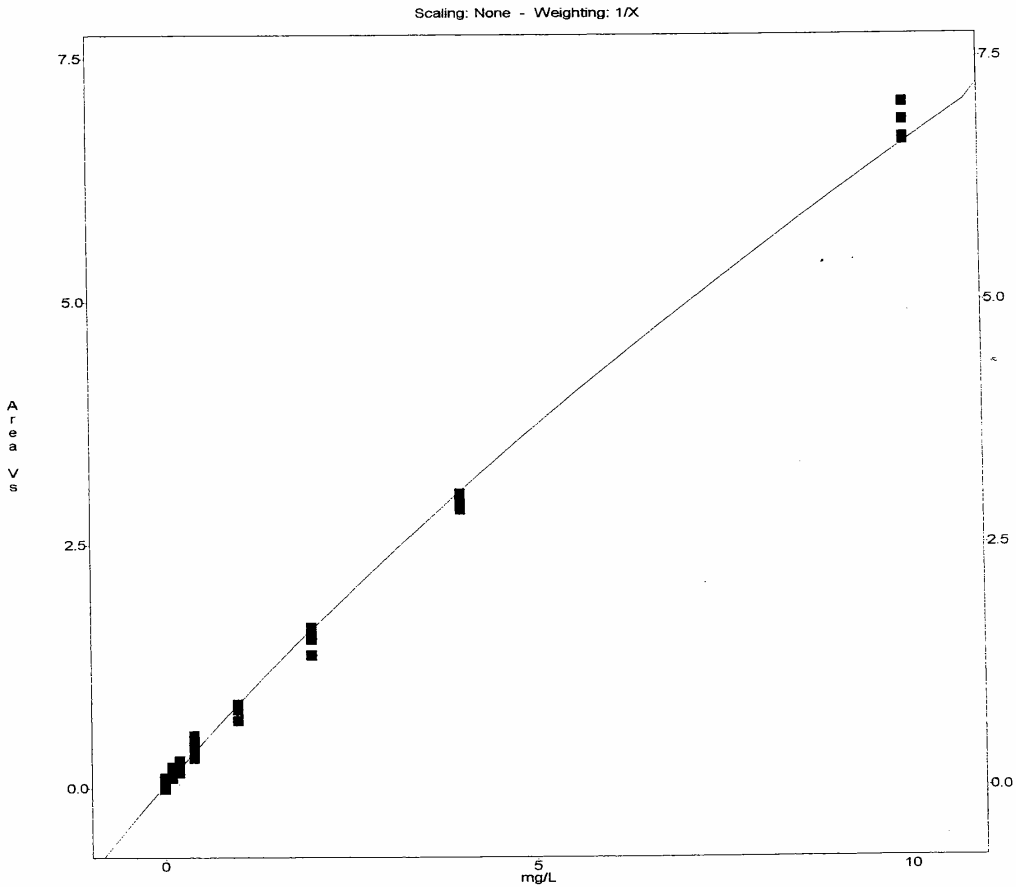
Creator: mme
Creation Date: May 5, 2000 10:24:45
Last Modified: May 5, 2000 10:39:08
Description: DAILY RUN

Cup #	Sample ID	Manual Dilution	Sample Type	
15	STD-1 10 mg/L	1.0000	CalStd	
15	STD-2 4.0 mg/L	1.0000	CalStd	
15	STD-3 2.0 mg/L	1.0000	CalStd	
15	STD-4 1.0 mg/L	1.0000	CalStd	
15	STD-5 0.4 mg/L	1.0000	CalStd	
15	STD-6 0.2 mg/L	1.0000	CalStd	
15	STD-7 0.1 mg/L	1.0000	CalStd	
16	STD-7 0 mg/L	1.0000	CalStd	
1	BLK PB117 05/04	1.0000	Blank	
2	LCS PB117 05/04	1.0000	RelChkStd	
3	264716 CE	1.0000	Unknown	
4	264717 CE	1.0000	Unknown	
5	264718 CE	1.0000	Unknown	
6	264719 CE	1.0000	Unknown	
7	264720 CE	1.0000	Unknown	
8	264721 CE	1.0000	Unknown	
9	264722 CE	1.0000	Unknown	
10	264723 CE	1.0000	Unknown	
11	264724 CE	1.0000	Unknown	
12	264725 CE	1.0000	Unknown	
13	264726 CE	1.0000	Unspiked	
14	Matrix Spike 264726	1.0000	Spiked	
15	Matrix Spike Dup 264726	1.0000	Spiked	
16	RINSE	1.0000	Unknown	
17	BLK PB427 05/04	1.0000	Blank	
18	LCS PB427 05/04	1.0000	RelChkStd	
19	264885 CIN	1.0000	Unknown	
20	264887 CIN	1.0000	Unknown	
21	264974 CIN	1.0000	Unknown	
22	265047 INDO	1.0000	Unknown	
23	264052 INDO	1.0000	Unknown	
24	265057 WU	10.0000	Unknown	
25	265058 WU	1.0000	Unspiked	
26	Matrix Spike 265058	1.0000	Spiked	
27	Matrix Spike Dup 265058	1.0000	Spiked	
28	263501 TAI	1.0000	Unknown	
29	PE 1	1.0000	Unknown	

Ammonia

Lv[1]	Area	mg/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 2nd Poly
	6677268	10.0	6677268	6856900	7039018	6855223	6649101	158152.5	2.3	-1.0
2	2921392	4.0	2921392	2966459	3029827	2940797	2862285	61378.5	2.1	4.9
3	1554811	2.0	1554811	1655680	1556840	1536075	1374125	101628.9	6.6	5.6
4	807882	1.0	807882	866099	840910	850822	698984	67184.1	8.3	7.4
5	542654	0.4	542654	430035	395442	453533	314094	83415.5	19.5	-49.7
6	239891	0.2	239891	274682	282021	288045	163703	51552.8	20.6	-17.3
7	180894	0.1	180894	202101	221648	194349	107326	43884.0	24.2	-64.8
8	25815	0.0	25815	10487	110589	77517	0	47284.8	105.4	

2nd Order Poly
Conc = 5.383e-014 Area² + 1.160e-006 Area - 4.685e-002
r = 0.9993



nted: Friday, May 05, 2000 - 02:27 PM

AMMONIA: METHOD 350.1

Batch # 875 **(Code 1460)** **ICVS** C-433
Batch # 249 **(Code 3460)** **CURVE/ CCVS** C-434
lium Phenolate 385 **Sodium Hypochlorite** 415 **Buffer** 414
Sodium Nittroprusside 395

OPERATOR: mme
ACQ. TIME: May 5, 2000 14:28:27
DATA FILENAME: C:\OMNION\DATA\AMMONIA\00050504.FDT
METHOD FILENAME: C:\OMNION\METHODS\AMMONIA.MET
TRAY FILENAME: C:\OMNION\TRAYS\AMMONIA\000505A.TRA

Method - Ch. 1 (Ammonia)

METHOD DESCRIPTION:
Created: Feb 4, 2000 7:53:11
Modified: May 2, 2000 16:08:10
Ammonia

ANALYTE DATA:
Analyte Name: Ammonia
Concentration Units: mg/L
Chemistry: Direct
Inject to Peak Start (s): 24.0
Peak Base Width (s): 20.000
% Width Tolerance: 100.000
Threshold: 5000.000
Autodilution Trigger: On
QuikChem Method: 10-107-06-1-A

_IBRATION DATA:
Levels:
1 : 10.000 2 : 4.000 3 : 2.000 4 : 1.000
5 : 0.400 6 : 0.200 7 : 0.100 8 : 0.000

Calibration Rep Handling: Replace
Calibration Fit Type: 2nd Order Poly
Force Though Zero: No
Weighting Method: 1/X
Concentration Scaling: None

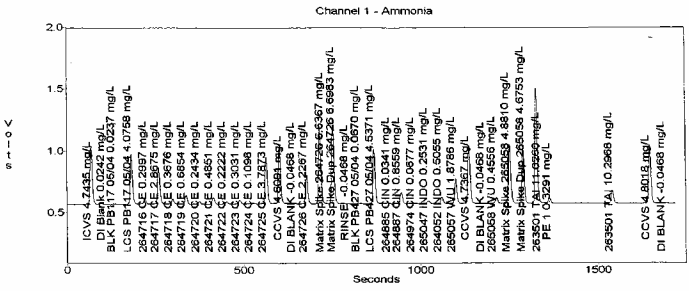
SAMPLER TIMING:
Method Cycle Period: 40.0
Min. Probe in Wash Period: 5.0
Probe in Sample Period: 24.0

*** Prep Sequence Not Enabled ***

VALVE TIMING:
Method Cycle Period: 40.0
Sample Reaches 1st Valve: 21.0
Valve: On
Load Time: 0.0
Load Period: 15.0
Inject Period: 25.0

Sample Information/Results: Ch. 1
Ammonia (Cup Range: 1 - 9999)

Calibration Standards:



Multi-Channel Table
Type: DQM
Channel Range: 1 to 8 -- Cup Range: 1 to 15

Cup	Sample ID	Sample Type	Rep #	Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor	Weight	Unit
	ICVS	RelChkStd	1	4.7435	1.0	1.00	1.00000	g
		Known Concentration:		5.0000				
		% Difference:		-5.1304				
1	BLK PB117 05/04	Blank	1	1.1411	1.0	1.00	0.02080	g
2	LCS PB117 05/04	RelChkStd	1	199.7925	1.0	1.00	0.02040	g
		Known Concentration:		245.0980				
		% Difference:		-18.4847				
3	CCVS	RelChkStd	1	4.6091	1.0	1.00	1.00000	g
		Known Concentration:		5.0000				
		% Difference:		-7.8178				
3	CCVS	RelChkStd	1	4.7367	1.0	1.00	1.00000	g
		Known Concentration:		5.0000				
		% Difference:		-5.2668				
3	CCVS	RelChkStd	1	4.8018	1.0	1.00	1.00000	g
		Known Concentration:		5.0000				
		% Difference:		-3.9631				
13	264726 CE	Unspiked	1	95.9794	1.0	1.00	0.02320	g
14	Matrix Spike 264726	Spiked	1	298.9483	1.0	1.00	0.02220	g
		Spike Level:		225.2252				
		% Spike Recovery:		88.1986				
15	Matrix Spike Dup 264726	Spiked	1	291.2294	1.0	1.00	0.02300	g
		Spike Level:		217.3913				
		% Spike Recovery:		89.4311				

Multi-Channel Table
Type: DQM
Channel Range: 1 to 8 -- Cup Range: 17 to 103

Cup	Sample ID	Sample Type	# of Reps	Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor	Weight	Unit
17	BLK PB427 05/04	Blank	1	0.0670	1.0	1.00	1.00000	g
18	LCS PB427 05/04	RelChkStd	1	4.5371	1.0	1.00	1.00000	g
		Known Concentration:		5.0000				
		% Difference:		-9.2586				
25	265058 WU	Unspiked	1	0.4556	1.0	1.00	1.00000	g
26	Matrix Spike 265058	Spiked	1	4.8810	1.0	1.00	1.00000	g
		Spike Level:		5.0000				
		% Spike Recovery:		88.5080				
27	Matrix Spike Dup 265058	Spiked	1	4.6753	1.0	1.00	1.00000	g
		Spike Level:		5.0000				
		% Spike Recovery:		84.3938				

Multi-Channel Table
Type: Unknowns
Channel Range: 1 to 8 – Cup Range: 1 to 59

Cup	Sample ID	# of Reps	Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor	Weight	Unit
3	264716 CE	1	13.624	1.0	1.00	0.02200	g
	264717 CE	1	130.340	1.0	1.00	0.02200	g
5	264718 CE	1	17.017	1.0	1.00	0.02160	g
6	264719 CE	1	32.331	1.0	1.00	0.02120	g
7	264720 CE	1	11.700	1.0	1.00	0.02080	g
8	264721 CE	1	21.850	1.0	1.00	0.02220	g
9	264722 CE	1	10.482	1.0	1.00	0.02120	g
10	264723 CE	1	14.163	1.0	1.00	0.02140	g
11	264724 CE	1	5.228	1.0	1.00	0.02100	g
12	264725 CE	1	127.092	1.0	1.00	0.02980	g
16	RINSE	1	-0.047	1.0	1.00	1.00000	g
19	264885 CIN	1	0.034	1.0	1.00	1.00000	g
20	264887 CIN	1	0.856	1.0	1.00	1.00000	g
21	264974 CIN	1	0.068	1.0	1.00	1.00000	g
22	265047 INDO	1	0.253	1.0	1.00	1.00000	g
23	264052 INDO	1	0.506	1.0	1.00	1.00000	g
24	265057 WU	1	18.786	10.0	1.00	1.00000	g
28	263501 TAI	1	11.026	1.0	1.00	1.00000	g
28	263501 TAI	1	10.297	1.0	10.00	1.00000	g
29	PE 1	1	0.329	1.0	1.00	1.00000	g

Multi-Channel Table
Type: DQM
Channel Range: 1 to 8 -- Cup Range: 16 to 16

Cup	Sample ID	Sample Type	# of Reps	Ammonia (mg/L)	Man Dil Factor	Auto Dil Factor	Weight	Unit
	DI Blank	Blank	1	0.02	1.0	1.00	1.00000	g
	DI BLANK	AbsChkStd	1	-0.05	1.0	1.00	1.00000	g
		Known Concentration:		0.00				
		Difference:		-0.05				
16	DI BLANK	AbsChkStd	1	-0.05	1.0	1.00	1.00000	g
		Known Concentration:		0.00				
		Difference:		-0.05				
16	DI BLANK	AbsChkStd	1	-0.05	1.0	1.00	1.00000	g
		Known Concentration:		0.00				
		Difference:		-0.05				

CVAA Mercury

Test America Job 00.020660

- Preparation Log
- Calibration Curve
- Standards
  - Internal Calibration Verification
  - Continuing Calibration Verification
  - Reporting Limit Verification
  - Laboratory Control
- Blanks
- MS/MSD
- Sample Raw Data

Sample Number	Date	Analyst	Sample Matrix	~~Initial Vol.~~ (g/mL)	Initial Vol. ~~Final Vol.~~ Final Vol.	Dil./Conc. Factor	Test Code	Prep Batch	Time In	Time Out	Batch Temp	Comments
Std, ICVS,	4/28/00	IDK	soil	55mL	55mL	N/A	6040	50	10:20	11:00	91°C	
blk					20,20,20							
blk					20,20,20							
ICS					20,20,20							
ICS					20,20,20							
264682					21,23,20							
264691					20,21,20							
264692					21,20,20							
264716					20,19,22							
264718					22,21,22							
264719					20,20,20							
264719					20,20,19							
264720					21,20,20							
264721					21,20,21							
264722					23,24,21							
264723					21,20,21							
264724					22,20,20							
264725					20,21,21							
264726					20,20,21							
264748					20,22,20							
264749					22,21,24							
264751					20,20,21							

Sulfuric acid reagent # 093

Nitric acid reagent # 091

Potassium persulfate reagent # 181

Pot. Permanganate reagent # 179

MS/MSD/LCS = 50uL 10 ppm std/100mL=0.0050 ppm

STD = 1.0mL of 10 ppm std/100mL= 0.1000 ppm

ICVS = 1.0mL of 10 ppm std/100mL = 0.1000 ppm

CAL/CCV Stock 10 ppm Std # 819

ICVS Stock 10 ppm Std # 820

000675

Sample Number	Date	Analyst	Sample Matrix	Initial Vol. (g/mL)	Final Vol.	Dil./Conc. Factor	Test Code	Prep Batch	Time In	Time Out	Batch Temp	Comments
264756	4.28.10	IDK	soil	.20, 20, 20	50mL	N/A	Hg	50	10:30	11:00	91°C	
MS264756				.20, 20, 20								
MSD264756				.20, 20, 20								
264777				.19, 20, 20								
264778				.20, 19, 20								
264779				.21, 20, 21								
264774				.21, 20, 20								
264775				.20, 20, 20								
264776				.21, 20, 20								
MS264776				.20, 21, 20								
MSD264776				.21, 20, 21								
264820				.19, 20, 19								
264821				.20, 20, 20								
264822				.20, 20, 20							94°C	

Sulfuric acid reagent # 093

Nitric acid reagent # 091

Potassium persulfate reagent # 181

Pot. Permanganate reagent # 179

MS/MSD/LCS = 500L 10 ppm std/100mL=0.0050 ppm

STD = 1.0mL of 10 ppm std/100mL= 0.1000 ppm

ICVS = 1.0mL of 10 ppm std/100mL = 0.1000 ppm

CAL/CCV Stock 10 ppm Std # 819

ICVS Stock 10 ppm Std # 820

Sa `e Information File C:\AAUSER\SAMPINFO\000428A.SIF

:scription : 000428A
.itch ID : 000428A
Volume Units : mL
Weight Units : g
.nalyst : SAT
.ample Volume : 55.00

\S Sample ID ɔc	Sample Weight	Sample Units	User Dilution	Remarks
12 LCS DUP	0.6000	mg/kg		
13 BLANK DUP	0.6000	mg/kg		
14 264682 FWWTP	0.6400	mg/kg		
15 264691 INDT	0.6100	mg/kg		
16 264692 INDT	0.6100	mg/kg		
17 264716 CWE	0.6100	mg/kg		
18 264717 CWE	0.6500	mg/kg		
19 264718 CWE	0.6000	mg/kg		
20 264719 CWE	0.5900	mg/kg		
21 264720 CWE	0.6100	mg/kg		
22 264721 CWE	0.6200	mg/kg		
23 264722 CWE	0.6800	mg/kg		
24 264723 CWE	0.6200	mg/kg		
25 264724 CWE	0.6200	mg/kg		
26 264725 CWE	0.6200	mg/kg		
27 264726 CWE	0.6100	mg/kg		
28 264748 ET	0.6200	mg/kg		
2 `64749 ET	0.6700	mg/kg		
3. 264751 ET	0.6100	mg/kg		
31 264756 ET	0.6000	mg/kg		
32 MS 264756 ET	0.6000	mg/kg		
33 MSD 264756 ET	0.6000	mg/kg		
34 264774 KEI	0.6100	mg/kg		
35 264775 KEI	0.6000	mg/kg		
36 264776 KEI	0.6100	mg/kg		
37 MS 264776 KEI	0.6100	mg/kg		
38 MSD 264776 KEI	0.6200	mg/kg		
39 264777 KEI	0.5900	mg/kg		
40 264778 KEI	0.5900	mg/kg		
41 264779 KEI	0.6200	mg/kg		
42 264820 KEI	0.5800	mg/kg		
43 264821 KEI	0.6000	mg/kg		
44 264822 KEI	0.6000	mg/kg		

test code 5375
runbatch 733

000677

Method Name: mercuryPE
Method Description: MERCURY
Element: Hg

Date: 04/28/2000
Technique:FI-MHS
Calibration Type:
Hg, Calc. Intercept : Linear
Wavelength: 253.7 nm
Sample Info Name: 000428A.SIF Results Data Set Name: 000428A

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 04/28/2000
Sample ID: Calib Blank

Repl #	SampleConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1		0.0000	0.0000	04:31:13	No
2		0.0006	0.0006	04:31:43	No
3		0.0005	0.0005	04:32:13	No
Mean:		0.0004			
SD :		0.0003			
%RSD:		83.5946			

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 04/28/2000
Sample ID: 0.5 ppb

Repl #	SampleConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1		0.0076	0.0080	04:33:25	No
2		0.0070	0.0074	04:33:54	No
3		0.0073	0.0077	04:34:24	No
Mean:		0.0073			
SD :		0.0003			
%RSD:		4.3147			

[Hg] Standard number 1 applied. [0.500]
Correlation Coefficient: 1.00000 Slope: 0.01460
Intercept : 0.00000

Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 04/28/2000
Sample ID: 1.0 ppb

Repl #	SampleConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1		0.0139	0.0143	04:35:37	No
2		0.0149	0.0153	04:36:06	No
3		0.0140	0.0144	04:36:36	No
Mean:		0.0142			
SD :		0.0005			
%RSD:		3.7834			

[Hg] Standard number 2 applied. [1.000]
Correlation Coefficient: 0.99989 Slope: 0.01424
Intercept : 0.00006

Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 04/28/2000
Sample ID: 2.0 ppb

Repl #	SampleConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1		0.0301	0.0305	04:37:50	No
2		0.0268	0.0272	04:38:19	No

000678

3	0.0301	0.0305	04:38:49	No

Mean: 0.0290
SD : 0.0019
%RSD: 6.5324
[Hg] Standard number 3 applied. [2.000]
Correlation Coefficient: 0.99993 Slope: 0.01449
Intercept : -0.00004

==========

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 04/28/2000
Sample ID: 5.0 ppb

Repl #	SampleConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1		0.0734	0.0738	04:40:04	No
2		0.0728	0.0732	04:40:33	No
3		0.0732	0.0736	04:41:02	No

Mean: 0.0731
SD : 0.0003
%RSD: 0.3804
[Hg] Standard number 4 applied. [5.000]
Correlation Coefficient: 0.99998 Slope: 0.01464
Intercept : -0.00015

==========

Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 04/28/2000
Sample ID: 10.0 ppb

Repl #	SampleConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1		0.1439	0.1443	04:42:19	No
2		0.1442	0.1446	04:42:49	No
3		0.1439	0.1443	04:43:18	No

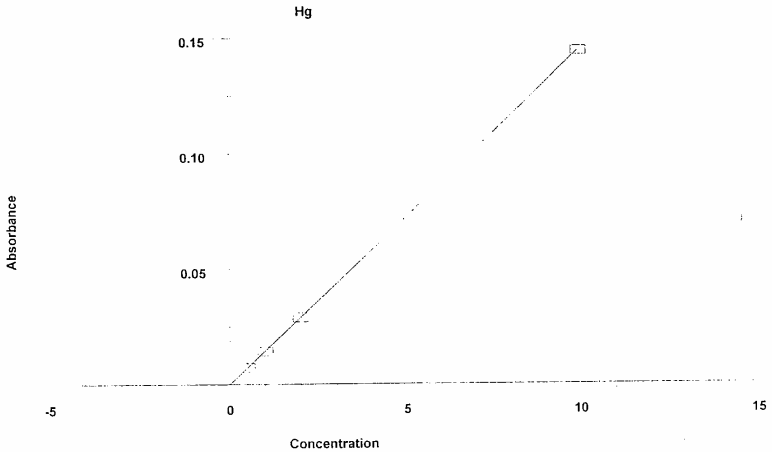
Mean: 0.1440
SD : 0.0002
%RSD: 0.1218
[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99997 Slope: 0.01443
Intercept : 0.00013

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0004	---	----	----	----
0.5 ppb	0.0073	0.500	0.497	0.0003	4.3
1.0 ppb	0.0142	1.000	0.978	0.0005	3.8
2.0 ppb	0.0290	2.000	2.002	0.0019	6.5
5.0 ppb	0.0731	5.000	5.060	0.0003	0.4
10.0 ppb	0.1440	10.000	9.972	0.0002	0.1

Correlation Coefficient: 0.99997 Slope: 0.01443 Intercept: 0.0001

000679



==========

Element: Hg Seq. No.: 7 AS Loc.: 9 Date: 04/28/2000
Sample ID: ICVS

103.6%

Repl #	SampleConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.176	0.0748	0.0752	04:44:37	No
2	5.168	0.0747	0.0751	04:45:07	No
3	5.189	0.0750	0.0754	04:45:37	No
Mean:	5.178	0.0748			
SD :	0.0104	0.0002			
%RSD:	0.2	0.2012			

QC value within specified limits.

tr= 0.005mg/L

==========

Element: Hg Seq. No.: 8 AS Loc.: 10 Date: 04/28/2000
Sample ID: LCS

88.3%

Repl #	SampleConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	4.469	0.0646	0.0650	04:46:48	No
2	4.411	0.0638	0.0642	04:47:17	No
3	4.371	0.0632	0.0636	04:47:46	No
Mean:	4.417	0.0639			
SD :	0.0491	0.0007			
%RSD:	1.1	1.1083			

QC value within specified limits.

tr- 0.005mg/L

==========

Element: Hg Seq. No.: 9 AS Loc.: 11 Date: 04/28/2000
Sample ID: RLVS

Repl #	SampleConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.530	0.0078	0.0082	04:48:59	No
2	0.523	0.0077	0.0081	04:49:28	No
3	0.479	0.0070	0.0074	04:49:57	No

000680

102.2%

Mean:	0.511	0.0075
SD :	0.0272	0.0004
%RSD:	5.3	5.2420

QC value within specified limits.

tv= 0.0005mg/L

==========

Element: Hg Seq. No.: 10 AS Loc.: 7 Date: 04/28/2000
Sample ID: Method Blank

Repl #	SampleConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.043	-0.0005	- -0.0001	04:51:13	No
2	-0.033	-0.0004	- 0.0000	04:51:43	No
3	-0.006	0.0000	0.0004	04:52:13	No
Mean:	-0.027	-0.0003			
SD :	0.0192	0.0003			
%RSD:	70.5	105.4742			

<0.0005mg/L
<0.005mg/L
<0.10mg/kg

QC value within specified limits.

==========

Element: Hg Seq. No.: 11 AS Loc.: 12 Date: 04/28/2000
Sample ID: LCS DUP

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.411	0.0648	0.0651	04:53:28	No
2	0.415	0.0654	0.0658	04:53:57	No
3	0.410	0.0646	0.0650	04:54:26	No
Mean:	0.412	0.0649			
SD :	0.0029	0.0005			
%RSD:	0.7	0.6970			

89.9%

tv= 0.458mg/L

==========

Element: Hg Seq. No.: 12 AS Loc.: 13 Date: 04/28/2000
Sample ID: BLANK DUP

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.002	-0.0002	0.0002	04:55:40	No
2	-0.004	-0.0005	- -0.0001	04:56:09	No
3	-0.001	-0.0001	0.0003	04:56:38	No
Mean:	-0.002	-0.0002			
SD :	0.0013	0.0002			
%RSD:	54.8	85.5537			

<0.10mg/kg

==========

Element: Hg Seq. No.: 13 AS Loc.: 14 Date: 04/28/2000
Sample ID: 264682 FWWTP

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.031	0.0054	0.0058	04:57:53	No
2	0.029	0.0050	0.0054	04:58:23	No
3	0.028	0.0049	0.0053	04:58:52	No
Mean:	0.030	0.0051			
SD :	0.0016	0.0003			
%RSD:	5.5	5.4045			

<0.10mg/kg

==========

Element: Hg Seq. No.: 14 AS Loc.: 15 Date: 04/28/2000
Sample ID: 264691 INDT

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.009	0.0015	0.0019	05:00:08	No
2	-0.001	-0.0001	- 0.0003	05:00:38	No

000681

264691 Indt

3	0.016	0.0027	0.0031	05:01:07	No
Mean:	0.008	0.0014			
SD :	0.0087	0.0014			
%RSD:	112.5	101.7908			

<0.10 mg/kg

Element: Hg Seq. No.: 15 AS Loc.: 16 Date: 04/28/2000
Sample ID: 264692 INDT

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.002	-0.0002	0.0002	05:02:25	No
2	0.002	0.0004	0.0008	05:02:54	No
3	0.000	0.0002	0.0006	05:03:23	No
Mean:	0.000	0.0001			
SD :	0.0018	0.0003			
%RSD:	4821	215.5415			

L

Element: Hg Seq. No.: 16 AS Loc.: 17 Date: 04/28/2000
Sample ID: 264716 CWE

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.004	0.0008	0.0012	05:04:37	No
2	0.008	0.0014	0.0018	05:05:07	No
3	0.012	0.0020	0.0024	05:05:37	No
Mean:	0.008	0.0014			
SD :	0.0040	0.0006			
%RSD:	50.6	45.8022			

L

Element: Hg Seq. No.: 17 AS Loc.: 18 Date: 04/28/2000
Sample ID: 264717 CWE

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.031	0.0055	0.0059	05:06:48	No
2	0.019	0.0033	0.0037	05:07:17	No
3	0.029	0.0051	0.0055	05:07:47	No
Mean:	0.026	0.0046			
SD :	0.0067	0.0012			
%RSD:	25.6	24.8454			

L

Element: Hg Seq. No.: 18 AS Loc.: 19 Date: 04/28/2000
Sample ID: 264718 CWE

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.002	0.0005	0.0009	05:08:59	No
2	-0.001	0.0000 -	0.0004	05:09:28	No
3	0.009	0.0016	0.0020	05:09:57	No
Mean:	0.004	0.0007			
SD :	0.0052	0.0008			
%RSD:	147.0	119.0962			

L

Element: Hg Seq. No.: 19 AS Loc.: 20 Date: 04/28/2000
Sample ID: 264719 CWE

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.002	-0.0001	0.0003	05:11:08	No
2	0.013	0.0021	0.0025	05:11:37	No
3	0.012	0.0020	0.0024	05:12:07	No

000682

264719 CWE

Mean:	0.008	0.0013
SD :	0.0082	0.0013
%RSD:	107.1	96.5274

<0.10mg/kg

==========

Element: Hg Seq. No.: 20 AS Loc.: 21 Date: 04/28/2000
Sample ID: 264720 CWE

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.003	-0.0004 -	0.0000	05:13:19	No
2	0.003	0.0006	0.0010	05:13:49	No
3	0.001	0.0003	0.0007	05:14:19	No
Mean:	0.000	0.0002			
SD :	0.0032	0.0005			
%RSD:	1060	283.1964			

<

==========

Element: Hg Seq. No.: 21 AS Loc.: 8 Date: 04/28/2000
Sample ID: CCVS

Repl #	SampleConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.027	-0.0003 -	0.0001	05:15:33	No
2	5.082	0.0735	0.0739	05:16:02	No
3	4.995	0.0722	0.0726	05:16:32	No
Mean:	3.350	0.0485			
SD :	2.925	0.0422			
%RSD:	87.3	87.0728			

Precision (%RSD or SD) greater than specified limit.
QC failed, value less than lower limit for Hg.

==========

Element: Hg Seq. No.: 22 AS Loc.: 8 Date: 04/28/2000
Sample ID: CCVS

Repl #	SampleConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.046	0.0729	0.0733	05:17:50	No
2	5.043	0.0729	0.0733	05:18:19	No
3	4.968	0.0718	0.0722	05:18:48	No
Mean:	5.019	0.0726			
SD :	0.0440	0.0006			
%RSD:	0.9	0.8757			

100.4%

QC value within specified limits.

tv= 0.005mg/L

==========

Element: Hg Seq. No.: 23 AS Loc.: 7 Date: 04/28/2000
Sample ID: CCB

Repl #	SampleConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.027	-0.0003 -	0.0001	05:20:05	No
2	-0.038	-0.0004 -	0.0000	05:20:34	No
3	0.052	0.0009	0.0013	05:21:03	No
Mean:	-0.004	0.0001			
SD :	0.0488	0.0007			
%RSD:	1168	1001.8176			

<0.10mg/kg

QC value within specified limits.

==========

Element: Hg Seq. No.: 24 AS Loc.: 22 Date: 04/28/2000
Sample ID: 264721 CWE

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored

000683

264721 CWE

1	0.001	0.0003	- 0.0007	05:22:18	No
2	0.014	0.0024	0.0028	05:22:48	No
3	-0.002	-0.0003	- 0.0001	05:23:17	No
Mean:	0.004	0.0008			
SD :	0.0085	0.0014			
%RSD:	208.5	174.2077			

<0.10mg/kg

Element: Hg Seq. No.: 25 AS Loc.: 23 Date: 04/28/2000
Sample ID: 264722 CWE

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.007	0.0013	0.0017	05:24:30	No
2	0.006	0.0011	0.0015	05:25:01	No
3	0.005	0.0011	0.0015	05:25:30	No
Mean:	0.006	0.0012			
SD :	0.0008	0.0001			
%RSD:	13.8	12.2473			

L

Element: Hg Seq. No.: 26 AS Loc.: 24 Date: 04/28/2000
Sample ID: 264723 CWE

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.004	0.0007	0.0011	05:26:43	No
2	0.004	0.0007	0.0011	05:27:12	No
3	0.003	0.0007	0.0011	05:27:42	No
Mean:	0.004	0.0007			
SD :	0.0002	0.0000			
%RSD:	5.5	4.5051			

L

Element: Hg Seq. No.: 27 AS Loc.: 25 Date: 04/28/2000
Sample ID: 264724 CWE

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.003	-0.0003	- 0.0001	05:28:56	No
2	0.014	0.0023	0.0027	05:29:26	No
3	0.014	0.0024	0.0028	05:29:55	No
Mean:	0.008	0.0015			
SD :	0.0097	0.0016			
%RSD:	117.0	106.6825			

L

Element: Hg Seq. No.: 28 AS Loc.: 26 Date: 04/28/2000
Sample ID: 264725 CWE

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.041	0.0068	0.0072	05:31:09	No
2	0.044	0.0072	0.0076	05:31:39	No
3	0.043	0.0072	0.0076	05:32:09	No
Mean:	0.043	0.0071			
SD :	0.0012	0.0002			
%RSD:	2.9	2.8028			

L

Element: Hg Seq. No.: 29 AS Loc.: 27 Date: 04/28/2000
Sample ID: 264726 CWE

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.014	0.0024	0.0028	05:33:24	No

000684

264726 CWE

2	0.016	0.0027	0.0030	05:33:54	No
3	0.015	0.0025	0.0029	05:34:23	No
Mean:	0.015	0.0025			
SD :	0.0007	0.0001			
%RSD:	4.8	4.5307			

<0.10mg/kg

Element: Hg Seq. No.: 30 AS Loc.: 28 Date: 04/28/2000
Sample ID: 264748 ET

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.020	0.0034	0.0038	05:35:39	No
2	0.019	0.0033	0.0037	05:36:08	No
3	0.020	0.0033	0.0037	05:36:37	No
Mean:	0.020	0.0033			
SD :	0.0005	0.0001			
%RSD:	2.3	2.2435			

L

Element: Hg Seq. No.: 31 AS Loc.: 29 Date: 04/28/2000
Sample ID: 264749 ET

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.003	0.0006	0.0010	05:37:52	No
2	0.004	0.0008	0.0012	05:38:22	No
3	0.003	0.0006	0.0010	05:38:51	No
Mean:	0.003	0.0007			
SD :	0.0008	0.0001			
%RSD:	23.8	19.2569			

L

Element: Hg Seq. No.: 32 AS Loc.: 30 Date: 04/28/2000
Sample ID: 264751 ET

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.016	0.0027	0.0031	05:40:07	No
2	0.016	0.0027	0.0031	05:40:36	No
3	0.016	0.0026	0.0030	05:41:05	No
Mean:	0.016	0.0027			
SD :	0.0003	0.0001			
%RSD:	2.0	1.8767			

L

Element: Hg Seq. No.: 33 AS Loc.: 31 Date: 04/28/2000
Sample ID: 264756 ET

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.021	0.0034	0.0038	05:42:22	No
2	0.022	0.0036	0.0040	05:42:52	No
3	0.022	0.0036	0.0040	05:43:22	No
Mean:	0.021	0.0035			
SD :	0.0006	0.0001			
%RSD:	2.8	2.7200			

L

Element: Hg Seq. No.: 34 AS Loc.: 8 Date: 04/28/2000
Sample ID: CCVS

Repl #	SampleConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.099	0.0737	0.0741	05:44:39	No
2	5.080	0.0734	0.0738	05:45:09	No

000685

CCVS

3	5.056	0.0731	0.0735	05:45:39	No
Mean:	5.078	0.0734			
SD :	0.0215	0.0003			
%RSD:	0.4	0.4226			

101.6%

QC value within specified limits.

tv= 0.005mg/L

Element: Hg Seq. No.: 35 AS Loc.: 7 Date: 04/28/2000
Sample ID: CCB

Repl #	SampleConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.039	-0.0004 -	0.0000	05:46:56	No
2	-0.002	0.0001	0.0005	05:47:26	No
3	-0.032	-0.0003 -	0.0001	05:47:55	No
Mean:	-0.024	-0.0002			
SD :	0.0199	0.0003			
%RSD:	82.3	131.3749			

<0.10mg/kg

QC value within specified limits.

Element: Hg Seq. No.: 36 AS Loc.: 32 Date: 04/28/2000
Sample ID: MS 264756 ET

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.441	0.0696	0.0700	05:49:09	No
2	0.437	0.0689	0.0693	05:49:38	No
3	0.439	0.0693	0.0697	05:50:08	No
Mean:	0.439	0.0693			
SD :	0.0021	0.0003			
%RSD:	0.5	0.4832			

95.9%

tv= 0.458mg/kg

Element: Hg Seq. No.: 37 AS Loc.: 33 Date: 04/28/2000
Sample ID: MSD 264756 ET

rpd= 4.0

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.458	0.0722	0.0726	05:51:17	No
2	0.458	0.0723	0.0727	05:51:47	No
3	0.456	0.0719	0.0723	05:52:16	No
Mean:	0.457	0.0721			
SD :	0.0012	0.0002			
%RSD:	0.3	0.2724			

99.8%

tv= 0.458mg/kg

Element: Hg Seq. No.: 38 AS Loc.: 34 Date: 04/28/2000
Sample ID: 264774 KEI

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.023	0.0038	0.0042	05:53:26	No
2	0.024	0.0040	0.0044	05:53:55	No
3	0.023	0.0038	0.0042	05:54:24	No
Mean:	0.023	0.0038			
SD :	0.0006	0.0001			
%RSD:	2.7	2.6501			

<0.10mg/kg

Element: Hg Seq. No.: 39 AS Loc.: 35 Date: 04/28/2000
Sample ID: 264775 KEI

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.084	0.0133	0.0137	05:55:35	No

000686

264778 KEI

3	0.037	0.0058	0.0062	06:07:31	No
Mean:	0.036	0.0057			
SD :	0.0006	0.0001			
%RSD:	1.7	1.6786			

<0.10mg/kg

Element: Hg Seq. No.: 45 AS Loc.: 41 Date: 04/28/2000
Sample ID: 264779 KEI

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.025	0.0043	0.0047	06:08:44	No
2	0.026	0.0044	0.0048	06:09:13	No
3	0.026	0.0044	0.0048	06:09:42	No
Mean:	0.026	0.0043			
SD :	0.0004	0.0001			
%RSD:	1.5	1.4706			

<

Element: Hg Seq. No.: 46 AS Loc.: 8 Date: 04/28/2000
Sample ID: CCVS

Repl #	SampleConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	5.096	0.0737	0.0741	06:10:58	No
2	5.097	0.0737	0.0741	06:11:27	No
3	5.089	0.0736	0.0740	06:11:57	No
Mean:	5.094	0.0736			
SD :	0.0042	0.0001			
%RSD:					

101.9%

QC value within specified limits.

tr= 0.005mg/L

Element: Hg Seq. No.: 47 AS Loc.: 7 Date: 04/28/2000
Sample ID: CCB

Repl #	SampleConc µg/L	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	-0.017	-0.0001	0.0003	06:13:14	No
2	-0.026	-0.0002 -	0.0002	06:13:43	No
3	-0.015	-0.0001	0.0003	06:14:13	No
Mean:	-0.019	-0.0001			
SD :	0.0057	0.0001			
%RSD:	30.0	57.0539			

~~<0.005mg/L~~ 1clk

<0.10mg/kg

QC value within specified limits.

Element: Hg Seq. No.: 48 AS Loc.: 42 Date: 04/28/2000
Sample ID: 264820 KEI

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.016	0.0025	0.0029	06:15:29	No
2	0.015	0.0024	0.0028	06:15:58	No
3	0.016	0.0026	0.0030	06:16:27	No
Mean:	0.016	0.0025			
SD :	0.0008	0.0001			
%RSD:	4.9	4.6855			

<0.10mg/kg

Element: Hg Seq. No.: 49 AS Loc.: 43 Date: 04/28/2000
Sample ID: 264821 KEI

Repl #	SampleConc mg/kg	BlnkCorr Signal	Peak Height	Time	Peak Stored
1	0.019	0.0031	0.0035	06:17:42	No

000687

ICP Metals

Test America Job 00.02066

- Preparation Log
  (If Applicable)
- Calibration Curve
- Standards
  Internal Calibration Verification
  Continuing Calibration Verification
  Laboratory Control
  Inter-element Checks
  (Inta1, Intb1)
  CRDL
- Blanks
  Method
  Instrument
- MS/MSD
- Sample Raw Data

SAMPLE NUMBER	DATE	ANALYST	SAMPLE MATRIX	INITIAL VOLUME	FINAL VOLUME	DIL/CONC FACTOR	BATCH	TEST CODE	COMMENTS
blk, blk, lcs, lcs,	4.27.00	idk	aq	50mL	50mL	1x	2582	5220	pH checked
264177, 264178,									264177, 179, 180 were
264180, 264519,									not treat. now HNO_3 preserved.
264613, 264614,									264691 is unpreserved
264615, 264616,									Ca + Na spiked
264621, 264631,									
264645 msmsd,									
264693, 264657,									
264680, 264681,									
264687, 264660,									
~~264691~~, 268763									
264764									

blk, blk, lcs, lcs,	4.28.00	idk	soil	20mL	100mL	N/A	1229	6010	
264774, 264775,				2.04, 2.05,					
264776, 264777,				2.01, 2.01,					
264778, 264779,				2.02, 2.00,					
264682, 264826,				2.00, 2.05,					
264821, 264822,				2.00, 2.00					
264691, 264692,				10.02, 10.01,					
264716, 264717,				2.03, 1.99,					
264718,				2.00,					
264719 msmsd				2.03, 2.05, 2.01					

HCl reagent # 013 Aq/TCLP spike = 0.5mL # OAK112, 934084 Ba spike = 0.450 mL # 921519 (TCLP ONLY)
HNO_3 reagent # 012 Soil spike = 1.0 mL # ____ Ca spike = 0.900 mL # ____ (soil), 0.450 mL # 626969 Ca (water)
H_2O_2 reagent # 015 IDEM Aq spike = 0.5 mL # ____ Na spike = 0.900 mL # ____ (soil), 0.450 mL # 936414 (water)
Page # 000004 total rec. spike = 1.0 mL # ____ Sn spike = 0.50 mL # 89K023

689000

SAMPLE NUMBER	DATE	ANALYST	SAMPLE MATRIX	INITIAL VOLUME	FINAL VOLUME	DIL/CONC FACTOR	BATCH	TEST CODE	COMMENTS
blk, blk, lcs, lcs,	4-28-00	ldk	soil	20mL	100mL	N/A	1230	6010	
264721, 264721,				2.03, 2.02,					
264722, 264723,				2.02, 2.04,					
264724, 264725,				2.01, 1.99,					
264726, 264748,				1.99, 2.00,					
264749, 264751,				2.05, 2.03					
264756 ms/msD				2.00, 2.01, 2.02					
blk, blk, lcs, lcs,	5-1-00	ldk	recov.	100	100	1x	290	5222	
264683, 264554									
264555, 264794,				100, 20→100 5x		1x, 5x			
264795, 264796,				10→100		10x			
264807, 264808,				100		1x			
264809, 264810,									
264811, 264728,									
264730, 264887,									
264885 ms/msD									

HCl reagent # 013 Aq/TCLP spike = 0.5mL # OHKIZ, 91, 1034 Ba spike = 0.450 mL # 421515 (TCLP ONLY)
HNO_3 reagent # 012 Soil spike = 1.0 mL # Ca spike = 0.900 mL # (soil), 0.450 mL # 626469 (water)
H_2O_2 reagent # 015 IDEM Aq spike = 0.5 mL # Na spike = 0.900 mL # (soil), 0.450 mL # 930419 (water)
Page # 00000 total rec. spike = 1.0 mL # Sn spike = 0.50 mL # STKD23

Method: NEW Standard: STD
Run Time: 05/01/00 07:42:53

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	.0019	-.0051	-.0036	.0027	.0018	.0001	-.0003
SDev	.0061	.0053	.0028	.0004	.0002	.0003	.0003
%RSD	315.9	103.7	78.37	15.23	11.11	229.1	114.6
#1	-.0040	.0010	-.0010	.0026	.0020	-.0002	.0000
#2	.0016	-.0080	-.0066	.0032	.0016	.0002	-.0002
#3	.0082	-.0082	-.0032	.0024	.0018	.0004	-.0006

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	.0127	.0014	-.0002	.0039	-.0009	-.0005	.0017
SDev	.0038	.0011	.0006	.0036	.0004	.0015	.0018
%RSD	29.89	75.59	300.0	93.15	44.61	315.9	104.8
#1	.0100	.0010	-.0002	.0080	-.0006	.0012	.0002
#2	.0110	.0026	-.0008	.0022	-.0008	-.0010	.0036
#3	.0170	.0006	.0004	.0014	-.0014	-.0016	.0012

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	-.0002	-.0001	-.0027	.1485	-.0005	-.0026	2.925
SDev	.0000	.0004	.0054	.0135	.0002	.0009	.004
%RSD	.0000	312.2	197.7	9.078	49.49	35.25	.1377
#1	-.0002	.0002	-.0080	.1376	-.0006	-.0016	2.921
#2	-.0002	.0000	-.0030	.1636	-.0002	-.0034	2.925
#3	-.0002	-.0006	.0028	.1444	-.0006	-.0028	2.929

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	-.0013	-.0012	.0010	.0002
SDev	.0030	.0030	.0007	.0002
%RSD	225.2	248.9	72.11	100.0
#1	-.0044	-.0024	.0002	.0002
#2	.0016	.0022	.0012	.0004
#3	-.0012	-.0034	.0016	.0000

Method: NEW Standard: ST1 (575)
Run Time: 05/01/00 07:45:09

Elem	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288	Cr2677
Avge	.2563	.3929	12.56	7.077	1.243	.5699	2.649
SDev	.0243	.0565	1.37	1.010	.175	.0670	.311
%RSD	9.486	14.38	10.91	14.27	14.04	11.75	11.75
#1	.2706	.4324	13.63	7.860	1.378	.6240	2.891
#2	.2282	.3282	11.02	5.937	1.046	.4950	2.298
#3	.2700	.4182	13.04	7.434	1.306	.5908	2.759

Elem	Co2286	Cu3247	Pb2203	Mn2576	Mo2020	Ni2316	Se1960
Avge	1.144	.8774	.4151	1.019	.7047	4.006	.1728
SDev	.136	.1026	.0490	.117	.0864	.468	.0243
%RSD	11.89	11.69	11.81	11.50	12.26	11.69	14.06
#1	1.253	.9560	.4540	1.109	.7736	4.358	.1910
#2	.9918	.7614	.3600	.8864	.6078	3.474	.1452

#3	1.189	.9148	.4312	1.060	.7328	4.185	.1822

Elem	Tl1908	V_2924	Zn2138
Avge	.2779	1.373	.5971
SDev	.0345	.173	.0716
%RSD	12.43	12.57	11.99
#1	.3042	1.506	.6530
#2	.2388	1.178	.5164
#3	.2908	1.436	.6218

Method: NEW Standard: Ag (610)
Run Time: 05/01/00 07:47:23

Elem	Ag3280
Avge	.2123
SDev	.0025
%RSD	1.171
#1	.2094
#2	.2138
#3	.2136

Method: NEW Standard: HIGH (595)
Run Time: 05/01/00 07:49:24

Elem	Al3082	Ca3179	Fe2599	Mg2790	K_7664	Na5889
Avge	5.506	81.74	9.227	5.707	2.774	12.72
SDev	.100	1.26	.149	.115	.145	.19
%RSD	1.817	1.543	1.619	2.007	5.227	1.502
#1	5.515	82.37	9.304	5.754	2.840	12.77
#2	5.402	80.29	9.055	5.577	2.608	12.51
#3	5.601	82.57	9.323	5.791	2.875	12.88

Method: NEW Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Al3082	308.215	HIGH (595)	STD1-Blank	9.08397	-.017562	05/01/00 07:49:24
Sb2068	206.838	ST1 (575)	STD1-Blank	39.8531	.201922	05/01/00 07:49:24
As1936	193.696	ST1 (575)	STD1-Blank	25.2678	.090964	05/01/00 07:49:24
Ba4934	493.409	ST1 (575)	STD1-Blank	.796081	-.002176	05/01/00 07:49:24
Be3130	313.042	ST1 (575)	STD1-Blank	1.41593	-.002549	05/01/00 07:49:24
B_2496	249.678	ST1 (575)	STD1-Blank	16.0931	-.002146	05/01/00 07:49:24
Cd2288	228.802	ST1 (575)	STD1-Blank	18.1325	.004835	05/01/00 07:49:24
Ca3179	317.933	HIGH (595)	STD1-Blank	.611755	-.007749	05/01/00 07:49:24
Cr2677	267.716	ST1 (575)	STD1-Blank	3.77570	-.005286	05/01/00 07:49:24
Co2286	228.616	ST1 (575)	STD1-Blank	8.70047	.001740	05/01/00 07:49:24
Cu3247	324.754	ST1 (575)	STD1-Blank	11.4554	-.044294	05/01/00 07:49:24
Fe2599	259.940	HIGH (595)	STD1-Blank	5.41605	.005055	05/01/00 07:49:24
Pb2203	220.353	ST1 (575)	STD1-Blank	23.4995	.010966	05/01/00 07:49:24
Mg2790	279.078	HIGH (595)	STD1-Blank	8.76616	-.014610	05/01/00 07:49:24
Mn2576	257.610	ST1 (575)	STD1-Blank	9.80424	.001961	05/01/00 07:49:24
Mo2020	202.000	ST1 (575)	STD1-Blank	14.3804	.001917	05/01/00 07:49:24
Ni2316	231.604	ST1 (575)	STD1-Blank	2.49371	.006816	05/01/00 07:49:24
K_7664	766.491	HIGH (595)	STD1-Blank	19.0412	-2.82826	05/01/00 07:49:24

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Se1960	196.026	ST1 (575)	STD1-Blank	56.5287	.026380	05/01/00 07:49:24
Ag3280	328.068	Ag (610)	STD1-Blank	4.65405	.012101	05/01/00 07:49:24
Na5889	588.995	HIGH (595)	STD1-Blank	5.10489	-14.9311	05/01/00 07:49:24
Tl1908	190.864	ST1 (575)	STD1-Blank	34.2013	.045602	05/01/00 07:49:24
Sn1899	189.989	Sn (614)	STD1-Blank	7.90431	.009485	05/01/00 07:49:24
V_2924	292.402	ST1 (575)	STD1-Blank	7.42544	-.007425	05/01/00 07:49:24
Zn2138	213.856	ST1 (575)	STD1-Blank	16.7300	-.003346	05/01/00 07:49:24

Method: NEW Sample Name: ccv Operator: CRM
Run Time: 05/01/00 07:51:52
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	5.311	5.065	5.240	5.088	4.947	4.749	4.965
SDev	.386	.280	.112	.026	.030	.037	.006
%RSD	7.265	5.538	2.131	.5148	.6051	.7724	.1158
#1	5.109	5.033	5.349	5.114	4.975	4.791	4.964
#2	5.068	4.802	5.243	5.088	4.949	4.723	4.967
#3	H5.756	5.360	5.126	5.062	4.916	4.732	4.956
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	5.206	4.810	4.772	4.672	5.422	4.692	5.258
SDev	.259	.029	.030	.025	.259	.056	.276
%RSD	4.973	.6025	.6330	.5356	4.773	1.183	5.242
#1	5.057	4.827	4.791	4.681	5.296	4.698	5.057
#2	5.056	4.827	4.789	4.692	5.251	4.745	5.144
#3	H5.505	4.777	4.738	4.644	H5.720	4.634	H5.572
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	4.633	5.071	4.763	50.14	4.913	.4976	49.84
SDev	.031	.019	.051	.48	.135	.0185	.18
%RSD	.6605	.3745	1.068	.9546	2.742	3.723	.3547
#1	4.662	5.082	4.813	49.59	4.758	.4913	49.91
#2	4.637	5.049	4.765	50.44	5.006	.4829	49.63
#3	4.601	5.081	4.711	50.40	4.973	.5184	49.96
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	55.00	5.500	.5500	55.00
Low	4.500	4.500	4.500	45.00	4.500	.4500	45.00

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	L4.483	-.1512	5.081	4.894
SDev	.043	.0309	.021	.028
%RSD	.9593	20.44	.4054	.5792

#1	L4.434	-.1495	5.099	4.905
#2	4.502	-.1829	5.086	4.915
#3	4.514	-.1212	5.059	4.862
Errors	LC Low	NOCHECK	LC Pass	LC Pass
High	5.500		5.500	5.500
Low	4.500		4.500	4.500

Method: NEW Sample Name: icvag Operator: CRM
Run Time: 05/01/00 07:54:14
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	.0711	.2416	.0345	.0062	.0051	.0113	.0172
SDev	.0449	.1827	.0442	.0011	.0007	.0098	.0049
%RSD	63.17	75.60	128.0	18.16	14.29	83.24	28.52
#1	.1095	.4409	.0089	.0072	.0059	.0203	.0227
#2	.0217	.0822	.0855	.0050	.0048	.0011	.0134
#3	.0820	.2017	.0091	.0063	.0045	.0139	.0154
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	.2406	.0073	.0106	-.0321	.0205	.0190	.0219
SDev	.0189	.0043	.0025	.0027	.0050	.0109	.0231
%RSD	7.862	58.56	23.58	8.265	24.60	57.21	105.4
#1	.2609	.0121	.0078	-.0306	.0257	.0253	.0485
#2	.2235	.0038	.0125	-.0352	.0156	.0253	.0087
#3	.2373	.0060	.0116	-.0306	.0202	.0065	.0085
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	.0066	.0101	.0355	.0597	.0648	.9842	3.688
SDev	.0006	.0108	.0156	.6938	.2344	.0672	.042
%RSD	8.858	107.0	43.97	1163.	361.8	6.831	1.127
#1	.0064	-.0005	.0490	.5268	.2757	1.057	3.696
#2	.0062	.0212	.0392	-.7375	-.1876	.9252	3.642
#3	.0073	.0098	.0184	.3897	.1062	.9699	3.724
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK
High						1.100	
Low						.9000	

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	-.0904	-.0036	.0176	.0278
SDev	.2524	.0080	.0202	.0037
%RSD	279.1	219.4	114.8	13.46

#1	.0865	.0079	-.0035	.0066
#2	.0047	-.0222	.0036	.0069
#3	.0455	.0130	-.0020	.0068
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: NEW Standard: ST1 (575)
Run Time: 05/01/00 07:59:24

Elem	Ba4934
Avge	14.14
SDev	.29
%RSD	2.024
#1	14.40
#2	14.19
#3	13.83

Method: NEW Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ba4934	493.409	ST1 (575)	STD1-Blank	.707471	-.001934	05/01/00 07:59:24

Method: NEW Sample Name: icv1a Operator: CRM
Run Time: 05/01/00 07:56:52
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	10.32	.1176	.0833	9.973	.0014	L8.968	.0060
SDev	.05	.1548	.0833	.044	.0003	.083	.0057
%RSD	.4771	131.7	99.93	.4408	20.44	.9279	93.92
#1	10.28	.0408	.0382	9.981	.0017	L8.952	.0109
#2	10.31	.2958	.1794	9.926	.0014	L8.894	-.0002
#3	10.37	.0162	.0323	10.01	.0011	9.058	.0074
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	LC Low	NOCHECK
High	11.00			11.00		11.00	
Low	9.000			9.000		9.000	

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	.2331	-.0022	.0101	-.0321	.0630	.0341	.0403
SDev	.0022	.0053	.0022	.0013	.0029	.0302	.0241
%RSD	.9371	238.1	21.30	4.099	4.586	88.66	59.84
#1	.2348	-.0083	.0082	-.0329	.0657	-.0004	.0608
#2	.2306	.0000	.0125	-.0329	.0599	.0468	.0464
#3	.2339	.0016	.0098	-.0306	.0634	.0558	.0137
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	.0037	-.0014	.0047	104.4	-.0063	10.06	9.314
SDev	.0003	.0150	.0186	.7	.1719	.04	.022
%RSD	8.302	1058.	400.0	.6275	2715.	.4129	.2361
#1	.0039	.0005	.0252	104.8	-.0364	10.06	9.306
#2	.0033	-.0173	-.0111	103.7	-.1611	10.02	9.297
#3	.0038	.0125	-.0002	104.7	.1786	10.10	9.338
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High				110.0			11.00
Low				90.00			9.000

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	.0456	.0001	-.0006	.0068
SDev	.0409	.0191	.0037	.0002
%RSD	89.73	15710.	577.6	2.366
#1	.0865	.0085	-.0035	.0066
#2	.0047	-.0217	.0036	.0069
#3	.0455	.0135	-.0020	.0068
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: NEW Sample Name: icv1 Operator: CRM
Run Time: 05/01/00 08:01:49
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	.1737	10.06	9.804	.0357	9.043	.6793	10.03
SDev	.0260	.35	.051	.0447	.216	.0934	.20
%RSD	14.95	3.447	.5155	125.3	2.388	13.75	1.959
#1	.1815	9.686	9.747	.0105	L8.879	.6086	9.932
#2	.1949	10.37	9.821	.0874	9.288	.7861	10.26
#3	.1447	10.14	9.843	.0093	L8.963	.6130	9.904
Errors	NOCHECK	LC Pass	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass
High		11.00	11.00		11.00		11.00
Low		9.000	9.000		9.000		9.000

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	10.26	9.609	9.413	10.02	10.41	9.452	10.20
SDev	.18	.176	.174	.19	.17	.128	.22
%RSD	1.781	1.834	1.847	1.847	1.638	1.359	2.204
#1	10.14	9.486	9.298	9.890	10.31	9.394	10.03
#2	10.47	9.811	9.613	10.23	10.61	9.599	10.46
#3	10.17	9.530	9.328	9.942	10.32	9.362	10.12
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.00	11.00	11.00	11.00	11.00	11.00	11.00
Low	9.000	9.000	9.000	9.000	9.000	9.000	9.000

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	9.644	9.720	9.387	.2129	9.564	.0076	.1892
SDev	.156	.155	.254	.5393	.251	.0020	.0302
%RSD	1.621	1.597	2.710	253.3	2.629	27.03	15.97
#1	9.540	9.604	9.182	.7396	9.275	.0056	.1935
#2	9.824	9.896	9.671	.2370	9.734	.0096	.2170
#3	9.568	9.660	9.306	-.3381	9.683	.0075	.1570
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK
High	11.00		11.00		11.00		
Low	9.000		9.000		9.000		

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	9.736	-.2886	9.844	9.722
SDev	.114	.0488	.207	.173
%RSD	1.167	16.89	2.103	1.776
#1	9.702	-.2333	9.695	9.594
#2	9.863	-.3252	10.08	9.918
#3	9.643	-.3075	9.757	9.654
Errors	LC Pass	NOCHECK	LC Pass	LC Pass
High	11.00		11.00	11.00
Low	9.000		9.000	9.000

Analysis Report 05/01/00 09:29:26 AM page -

Method: NEW Sample Name: ccv Operator: CRM
Run Time: 05/01/00 09:26:29
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	5.226	5.223	5.416	5.272	5.412	5.100	5.164
SDev	.159	.190	.096	.074	.085	.099	.085
%RSD	3.052	3.630	1.775	1.413	1.569	1.933	1.644
#1	5.200	5.441	5.430	5.355	H5.503	5.206	5.262
#2	5.081	5.132	H5.504	5.210	5.336	5.011	5.109
#3	5.397	5.096	5.313	5.252	5.397	5.083	5.121
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	5.297	5.119	5.108	4.905	5.409	4.990	5.428
SDev	.151	.083	.077	.074	.152	.053	.159
%RSD	2.851	1.630	1.501	1.501	2.818	1.059	2.929
#1	5.283	5.209	5.180	4.987	5.455	5.013	5.399
#2	5.154	5.043	5.028	4.846	5.238	4.930	5.285
#3	5.455	5.106	5.116	4.881	H5.532	5.027	H5.599
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	4.901	5.370	5.130	50.05	5.495	.4531	51.95
SDev	.070	.060	.096	.92	.113	.0071	.78
%RSD	1.428	1.125	1.862	1.846	2.051	1.574	1.506
#1	4.980	5.436	5.231	51.12	H5.573	.4588	52.77
#2	4.847	5.317	5.042	49.55	5.366	L.4451	51.22
#3	4.876	5.357	5.118	49.49	H5.546	.4554	51.35
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	55.00	5.500	.5500	55.00
Low	4.500	4.500	4.500	45.00	4.500	.4500	45.00

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	4.609	-.1074	5.383	5.206
SDev	.190	.0475	.080	.079
%RSD	4.113	44.20	1.490	1.508
#1	L4.478	-.0828	5.470	5.291
#2	4.524	-.0773	5.312	5.135
#3	4.827	-.1621	5.368	5.193
Errors	LC Pass	NOCHECK	LC Pass	LC Pass
High	5.500		5.500	5.500
Low	4.500		4.500	4.500

Method: NEW Sample Name: ccb Operator: CRM
Run Time: 05/01/00 09:32:55
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	.0211	.0794	.0237	.0019	.0005	-.0097	.0006
SDev	.0204	.0543	.0256	.0019	.0005	.0208	.0026
%RSD	96.63	68.35	108.0	101.4	92.17	213.1	412.3
#1	-.0013	H.1191	.0386	.0009	.0011	-.0218	-.0023
#2	.0385	.0176	-.0059	.0041	.0001	-.0217	.0027
#3	.0260	H.1015	.0383	.0006	.0004	.0142	.0015
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.1000	.1000	.5000	.0200	.0030	.1000	.0100
Low	-.1000	-.1000	-.5000	-.0200	-.0030	-.1000	-.0100

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	.0158	.0042	.0012	-.0023	.0131	-.0250	.0354
SDev	.0118	.0035	.0056	.0098	.0004	.0323	.0294
%RSD	74.28	84.13	477.1	419.5	3.258	129.1	83.05
#1	.0279	.0053	-.0042	.0087	.0130	.0089	.0542
#2	.0044	.0002	.0069	L-.0102	.0127	-.0554	.0015
#3	.0151	.0070	.0008	-.0055	.0135	-.0286	.0505
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.000	.0100	.0200	.0100	.1000	.0800	1.000
Low	-1.000	-.0100	-.0200	-.0100	-.1000	-.0800	-1.000

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	-.0003	-.0026	H.0291	-.3902	-.0384	-.0039	1.254
SDev	.0002	.0191	.0053	.6666	.1075	.0026	.256
%RSD	62.51	736.9	18.16	170.9	280.0	65.20	20.43
#1	-.0004	.0004	H.0273	.3106	-.1066	-.0034	1.210
#2	-.0001	L-.0230	H.0351	-.4647	-.0942	-.0017	1.528
#3	-.0005	.0148	H.0250	-1.016	.0856	-.0068	1.022
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass
High	.0100	.0200	.0200	5.000	.2000	.0200	5.000
Low	-.0100	-.0200	-.0200	-5.000	-.2000	-.0200	-5.000

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	-.0825	.0278	.0072	-.0062
SDev	.0523	.0597	.0088	.0056
%RSD	63.37	214.7	122.0	91.19
#1	-.0823	.0042	.0104	-.0073
#2	-.0303	-.0164	-.0027	-.0111
#3	-.1348	.0957	.0140	-.0001
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	.5000	.5000	.0300	.0200
Low	-.5000	-.5000	-.0300	-.0200

Method: NEW Sample Name: crd1 1 Operator: CRM
Run Time: 05/01/00 09:39:21
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	.0035	.2749	.0439	.0291	.0205	.0360	H.0343
SDev	.0262	.0954	.0144	.0022	.0029	.0095	.0045
%RSD	747.2	34.69	32.88	7.717	14.22	26.57	13.21
#1	.0173	L.1704	.0383	.0302	.0213	.0288	H.0395
#2	.0200	.2973	.0603	.0266	.0173	.0323	H.0313
#3	-.0267	H.3572	.0331	.0307	.0230	.0468	H.0321
Errors	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	LC High
High		.3000			.0250		.0250
Low		.1800			.0150		.0150

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	.1735	.0499	.2139	.1071	.0312	-.0077	.0869
SDev	.0181	.0021	.0199	.0111	.0112	.0230	.0346
%RSD	10.46	4.195	9.304	10.40	35.70	299.5	39.84
#1	.1760	.0496	.2222	.1032	.0386	-.0237	.0484
#2	.1542	.0480	.1912	.0984	.0367	.0186	.0970
#3	.1902	H.0521	.2284	.1196	.0184	-.0180	.1154
Errors	NOCHECK	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High		.0500	.2500	.1250			
Low		.0300	.1500	.0750			

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	.0587	-.0025	H.2063	-.4585	.0390	.0399	-2.498
SDev	.0177	.0199	.0369	.4572	.0589	.0030	.050
%RSD	30.11	788.2	17.88	99.73	150.8	7.625	1.996
#1	.0667	-.0254	H.2046	-.7517	.0728	.0424	-2.473
#2	L.0384	.0075	.1703	.0684	.0733	.0408	-2.461
#3	.0709	.0104	H.2440	-.6921	-.0289	.0365	-2.554
Errors	LC Pass	NOCHECK	LC High	NOCHECK	NOCHECK	LC Pass	NOCHECK
High	.0750		.2000			.0500	
Low	.0450		.1200			.0300	

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	.0769	.0295	.2065	.0810
SDev	.0534	.0260	.0147	.0126
%RSD	69.37	88.27	7.110	15.48
#1	.0769	-.0006	.2081	.0799
#2	.0235	.0437	.1911	.0691
#3	.1302	.0453	.2203	.0941
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass
High			.2500	.1000
Low			.1500	.0600

Method: NEW Sample Name: inta1 Operator: CRM
Run Time: 05/01/00 09:42:21
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	13.14	.0903	.0879	.0356	-.0007	.0934	-.0041
SDev	.70	.1601	.0364	.0012	.0002	.0280	.0142
%RSD	5.342	177.3	41.45	3.331	32.22	30.00	347.4
#1	12.33	-.0721	.0882	.0345	-.0005	.0668	-.0205
#2	13.49	.2479	.1242	.0356	-.0009	.0907	.0050
#3	13.59	.0949	.0513	.0368	-.0005	.1226	.0032
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	14.40						
Low	9.600						

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	65.26	-.0039	-.0041	-.0038	53.97	-.0261	34.14
SDev	3.43	.0022	.0035	.0022	2.99	.0221	1.85
%RSD	5.251	57.42	84.51	57.51	5.538	84.90	5.426
#1	61.31	-.0022	-.0014	-.0060	50.53	-.0310	32.00
#2	67.01	-.0030	-.0029	-.0016	55.46	-.0019	35.09
#3	67.46	-.0064	-.0080	-.0038	55.93	-.0453	35.32
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	LC Pass
High	72.00				60.00		36.00
Low	48.00				40.00		24.00

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	.0010	-.0033	.0025	-.6511	-.1005	.0062	10.64
SDev	.0006	.0096	.0085	.5141	.1492	.0015	.72
%RSD	62.24	287.7	336.6	78.95	148.5	23.85	6.747
#1	.0008	.0041	-.0073	-.4468	-.0432	.0080	9.307
#2	.0018	.0000	.0069	-.2706	-.2699	.0054	11.03
#3	.0005	-.0142	.0079	-1.236	.0116	.0054	11.07
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High							12.00
Low							8.000

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	.2474	.0349	-.0136	.0087
SDev	.1150	.0450	.0091	.0042
%RSD	46.49	129.0	67.06	48.49
#1	.3025	.0517	-.0142	.0064
#2	.1152	.0691	-.0041	.0135
#3	.3244	-.0161	-.0223	.0061
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: NEW Sample Name: intb1 Operator: CRM
Run Time: 05/01/00 09:45:21
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	10.01	8.499	8.556	2.640	.8672	L4.000	2.605
SDev	.85	1.099	.768	.215	.0934	.447	.218
%RSD	8.540	12.93	8.974	8.133	10.77	11.18	8.361
#1	L9.533	L7.742	8.058	2.512	.8104	L3.724	2.438
#2	L9.491	L7.996	8.169	2.520	.8164	L3.759	2.526
#3	10.99	9.760	9.440	2.888	.9750	4.515	2.852
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Low	LC Pass
High	14.40	12.00	12.00			6.000	3.600
Low	9.600	8.000	8.000			4.000	2.400

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	50.83	2.562	2.598	2.449	43.30	8.247	25.61
SDev	4.55	.242	.245	.234	3.98	.667	2.53
%RSD	8.943	9.443	9.444	9.566	9.201	8.085	9.861
#1	48.06	2.411	2.446	L2.297	40.92	L7.883	24.02
#2	48.36	2.433	2.468	L2.332	41.08	L7.841	24.29
#3	56.08	2.841	2.881	2.719	47.90	9.016	28.52
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	72.00	3.600	3.600	3.600	60.00	12.00	36.00
Low	48.00	2.400	2.400	2.400	40.00	8.000	24.00

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	1.633	2.728	2.533	165.4	4.519	2.261	L5.663
SDev	.153	.206	.251	14.3	.549	.199	.835
%RSD	9.361	7.562	9.925	8.629	12.14	8.804	14.74
#1	L1.541	2.612	L2.386	L156.2	4.391	2.137	L5.200
#2	L1.549	2.607	L2.390	L158.1	4.046	2.155	L5.163
#3	1.810	2.967	2.824	181.8	5.121	2.490	L6.627
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Low
High	2.400	3.600	3.600	240.0	6.000		12.00
Low	1.600	2.400	2.400	160.0	4.000		8.000

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	8.250	7.681	2.449	2.624
SDev	.919	.649	.205	.223
%RSD	11.14	8.445	8.374	8.480
#1	L7.678	7.266	L2.320	2.479
#2	L7.761	7.348	L2.341	2.512
#3	9.310	8.429	2.685	2.880
Errors	LC Pass	NOCHECK	LC Pass	LC Pass
High	12.00		3.600	3.600
Low	8.000		2.400	2.400

Method: NEW Sample Name: ccv Operator: CRM
Run Time: 05/01/00 14:14:29
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	5.125	5.457	5.399	5.273	5.244	4.965	5.093
SDev	.244	.175	.193	.198	.260	.219	.210
%RSD	4.756	3.203	3.573	3.747	4.955	4.419	4.124
#1	5.339	H5.659	H5.510	5.411	5.427	5.127	5.236
#2	5.177	5.350	H5.511	5.360	5.360	5.053	5.192
#3	4.860	5.363	5.176	5.046	4.947	4.715	4.852
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Blank failed

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	5.197	5.021	4.959	4.846	5.319	4.859	5.256
SDev	.221	.205	.214	.209	.222	.192	.255
%RSD	4.260	4.084	4.313	4.310	4.183	3.942	4.849
#1	5.346	5.163	5.108	4.983	5.469	5.012	5.442
#2	5.303	5.115	5.056	4.949	5.425	4.921	5.359
#3	4.943	4.786	4.714	4.605	5.063	4.644	4.965
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	4.808	5.307	4.977	51.41	H5.534	.5342	52.12
SDev	.201	.189	.236	1.19	.461	.0136	2.57
%RSD	4.174	3.552	4.738	2.323	8.333	2.543	4.924
#1	4.944	5.452	5.162	52.30	H5.817	.5444	53.92
#2	4.903	5.376	5.057	51.87	H5.784	.5395	53.25
#3	4.573	5.094	4.711	50.05	5.002	.5188	49.18
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass
High	5.500	5.500	5.500	55.00	5.500	.5500	55.00
Low	4.500	4.500	4.500	45.00	4.500	.4500	45.00

Blank failed

107.8% rec.

5.393 PPD 14.5% ok

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	4.506	-.1142	5.300	5.095
SDev	.200	.0251	.239	.223
%RSD	4.412	21.94	4.516	4.367
#1	4.666	-.1260	5.472	5.254
#2	4.637	-.1012	5.402	5.190
#3	L4.306	-.0855	5.027	4.841
Errors	LC Pass	NOCHECK	LC Pass	LC Pass
High	5.500		5.500	5.500
Low	4.500		4.500	4.500

Method: NEW Sample Name: ccb Operator: CRM
Run Time: 05/01/00 14:20:55
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	-.0594	H.2837	-.0424	.0039	-.0002	.0333	-.0003
SDev	.0566	.0438	.0887	.0007	.0004	.0109	.0075
%RSD	95.40	15.40	209.2	17.27	168.4	32.79	2467.
#1	-.0668	H.3329	.0525	.0032	-.0003	.0217	.0075
#2	.0006	H.2490	-.0565	.0039	.0002	.0347	-.0074
#3	L-.1120	H.2693	-.1232	.0045	-.0007	.0435	-.0011
Errors	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.1000	.1000	.5000	.0200	.0030	.1000	.0100
Low	-.1000	-.1000	-.5000	-.0200	-.0030	-.1000	-.0100

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	.0741	.0007	-.0085	-.0019	.0063	.0170	.0147
SDev	.0122	.0036	.0055	.0029	.0070	.0260	.0402
%RSD	16.52	515.9	65.14	150.1	110.4	150.6	272.8
#1	.0647	-.0014	-.0095	-.0019	.0056	.0023	-.0219
#2	.0696	-.0013	-.0025	.0009	.0136	.0022	.0083
#3	.0879	.0048	-.0134	-.0048	-.0003	.0473	.0578
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.000	.0100	.0200	.0100	.1000	.0800	1.000
Low	-1.000	-.0100	-.0200	-.0100	-.1000	-.0800	-1.000

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	.0028	.0004	H.0491	.0893	-.0106	.0036	L-5.086
SDev	.0017	.0270	.0359	.4792	.0986	.0059	.063
%RSD	60.35	7314.	73.13	536.7	932.9	165.1	1.276
#1	.0047	L-.0294	H.0902	.6235	.0206	.0008	L-5.126
#2	.0020	.0072	H.0242	-.3026	.0687	-.0004	L-5.011
#3	.0016	H.0233	H.0328	-.0530	-.1209	.0104	L-5.120
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Low
High	.0100	.0200	.0200	5.000	.2000	.0200	5.000
Low	-.0100	-.0200	-.0200	-5.000	-.2000	-.0200	-5.000

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	.2122	-.0136	-.0138	-.0005
SDev	.1144	.0120	.0053	.0024
%RSD	53.94	87.95	38.59	490.4
#1	.3060	-.0275	-.0108	.0007
#2	.2459	-.0068	-.0200	-.0032
#3	.0847	-.0067	-.0107	.0011
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	.5000	.5000	.0300	.0200
Low	-.5000	-.5000	-.0300	-.0200

5242 1620 1229

05/01/00 02:26:52 PM page 3

Method: NEW Sample Name: mb 1229 Operator: CRM
Run Time: 05/01/00 14:23:55
Comment:
Mode: CONC Corr. Factor: 50

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	-.4053	11.93	-7.446 ✓	.1015 ✓	-.0266	2.174	.0544 ✓
SDev	1.0127	15.73	4.736	.0165	.0113	.217	.2924
%RSD	249.9	131.9	63.60	16.24	42.61	9.996	537.2
#1	-1.073	21.30	-12.29	.1110	-.0323	1.957	.3340
#2	.7599	20.72	-2.830	.0824	-.0339	2.392	.0780
#3	-.9024	-6.204	-7.215	.1110	-.0135	2.172	-.2490
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	1.387	-.0164 ✓	-.5966	-.1431	.1082 ✓	-.7544 ✓	.9977
SDev	.359	.3675	.5019	.3281	.0406	1.4499	2.565
%RSD	25.89	2239.	84.13	229.4	37.48	192.2	257.1
#1	.9724	-.4243	-1.098	-.5220	.1175	-2.150	-1.082
#2	1.585	.0863	-.5972	.0448	.1434	-.8582	.2116
#3	1.603	.2888	-.0944	.0480	.0638	.7446	3.863
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	.0359 ✓	.7546	1.443	18.91	.0118 ✓	.4793 ✓	-265.7
SDev	.0575	1.532	.251	28.25	7.118	.2961	2.5
%RSD	160.2	203.0	17.37	149.4	60290.	61.78	.9360
#1	.0796	-.8020	1.179	-13.54	7.367	.3385	-263.6
#2	.0571	2.261	1.678	37.98	-.4889	.8195	-268.2
#3	-.0292	.8048	1.473	32.31	-6.843	.2799	-263.3
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

>R

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	3.390	-1.127	-.3649	-.0133
SDev	4.579	.549	.5557	.5396
%RSD	135.1	48.70	152.3	4057.
#1	8.468	-1.449	-1.006	.0547
#2	-.4252	-1.438	-.0482	.4891
#3	2.127	-.4932	-.0099	-.5837
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

cc Ni ~~Not~~

Method: NEW Sample Name: lcs 1229 Operator: CRM
Run Time: 05/01/00 14:29:55
Comment:
Mode: CONC Corr. Factor: 50

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	46.81	59.06	43.58 ✓	47.90 ✓	45.25	43.80	44.14 ✓
SDev	1.11	4.98	8.15	1.66	2.26	2.38	1.12
%RSD	2.381	8.427	18.71	3.456	4.993	5.425	2.548
#1	47.88	53.43	52.14	49.77	47.80	46.54	44.78
#2	46.90	62.87	35.91	47.29	44.47	42.42	44.80
#3	45.65	60.89	42.69	46.64	43.49	42.42	42.84
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	55.94	45.38 ✓	44.61	42.77	49.20 ✓	41.21 ✓	50.52
SDev	1.98	1.55	1.42	1.58	2.52	.85	1.09
%RSD	3.539	3.411	3.180	3.693	5.124	2.065	2.148
#1	58.10	47.05	45.99	44.48	52.02	41.87	51.32
#2	55.51	45.07	43.15	42.49	48.43	41.50	50.96
#3	54.21	44.00	44.70	41.36	47.17	40.25	49.28
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	44.00 ✓	46.34	43.55 ✓	504.1	37.40	47.93 ✓	-146.5
SDev	1.79	3.95	2.91	3.4	4.39	1.92	2.3
%RSD	4.071	8.534	6.689	.6818	11.74	3.998	1.703
#1	46.03	50.39	46.90	502.6	37.74	50.09	-146.5
#2	43.31	46.15	41.58	501.7	41.61	47.27	-148.9
#3	42.66	42.49	42.18	508.1	32.85	46.43	-143.9
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	38.46	1.833	46.04	43.81
SDev	3.51	.645	1.48	1.28
%RSD	9.125	35.22	3.219	2.933
#1	35.70	2.142	47.74	45.09
#2	42.41	1.091	45.40	43.82
#3	37.28	2.265	44.99	42.52
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

cc Ni

Method: NEW Sample Name: lcs 1229 Operator: CRM
Run Time: 05/01/00 14:32:55
Comment:
Mode: CONC Corr. Factor: 50

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	64.01	49.90	50.07	52.26	58.98	55.21	51.29
SDev	1.77	7.04	7.65	2.52	4.28	5.00	4.27
%RSD	2.771	14.12	15.28	4.823	7.264	9.051	8.320
#1	61.96	49.20	57.44	49.41	54.11	49.58	46.38
#2	65.10	57.27	42.16	53.14	60.65	56.94	53.42
#3	64.97	43.24	50.62	54.21	62.18	59.11	54.07
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	66.90	54.19	53.98	49.54	61.19	50.90	67.07
SDev	4.81	3.34	3.03	3.57	3.65	1.26	6.25
%RSD	7.185	6.170	5.615	7.206	5.969	2.469	9.316
#1	61.39	50.46	50.49	45.47	56.97	49.97	59.98
#2	70.26	55.23	55.47	51.01	63.19	52.33	71.76
#3	69.04	56.90	55.97	52.14	63.39	50.40	69.45
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	52.43	55.55	55.74	564.1	63.69	5.409	189.6
SDev	3.10	2.60	1.97	22.0	13.84	.526	7.3
%RSD	5.918	4.678	3.528	3.895	21.73	9.728	3.861
#1	48.91	52.55	53.73	546.9	59.93	4.827	183.9
#2	53.61	57.04	55.81	556.7	52.12	5.850	197.9
#3	54.77	57.06	57.66	588.9	79.02	5.551	187.0
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

56.025

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	48.93	-1.378	55.19	51.83
SDev	7.69	1.619	3.57	2.94
%RSD	15.72	117.5	6.471	5.682
#1	42.23	-1.954	51.28	48.51
#2	57.33	.4503	56.01	52.84
#3	47.23	-2.631	58.28	54.14
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Se only

Method: NEW Sample Name: ccv Operator: CRM
Run Time: 05/01/00 15:01:59
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	4.779	4.957	4.756	4.812	4.629	L4.476	4.581
SDev	.201	.213	.253	.138	.185	.177	.130
%RSD	4.196	4.301	5.312	2.873	4.002	3.957	2.844
#1	4.577	4.833	L4.469	4.681	L4.447	L4.287	L4.452
#2	4.782	4.836	4.853	4.799	4.624	4.503	4.578
#3	4.978	5.204	4.945	4.957	4.817	4.638	4.712
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	4.846	L4.485	L4.452	L4.342	4.834	L4.396	4.746
SDev	.148	.149	.147	.153	.130	.172	.204
%RSD	3.062	3.318	3.310	3.531	2.690	3.942	4.305
#1	4.706	L4.335	L4.308	L4.191	4.709	L4.224	4.532
#2	4.830	L4.486	L4.445	L4.338	4.823	L4.393	4.768
#3	5.002	4.633	4.603	L4.497	4.969	4.570	4.939
Errors	LC Pass	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	L4.307	4.784	L4.416	46.33	4.948	.4830	46.66
SDev	.142	.162	.160	1.27	.398	.0201	2.03
%RSD	3.298	3.385	3.632	2.748	8.043	4.154	4.348
#1	L4.164	4.612	L4.261	L44.98	5.151	.4644	L44.74
#2	L4.308	4.804	L4.405	46.51	L4.490	.4802	46.46
#3	L4.448	4.934	4.582	47.51	5.205	.5043	48.78
Errors	LC Low	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	55.00	5.500	.5500	55.00
Low	4.500	4.500	4.500	45.00	4.500	.4500	45.00

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	L3.999	-.1023	4.765	4.565
SDev	.345	.0069	.151	.142
%RSD	8.616	6.736	3.177	3.116
#1	L3.624	-.1007	4.614	L4.428
#2	L4.073	-.0964	4.763	4.557
#3	L4.301	-.1099	4.917	4.712
Errors	LC Low	NOCHECK	LC Pass	LC Pass
High	5.500		5.500	5.500
Low	4.500		4.500	4.500

Method: NEW Sample Name: ccb Operator: CRM
Run Time: 05/01/00 15:08:26
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	-.0441	H.1692	-.2005	.0032	-.0005	.0332	-.0020
SDev	.0636	.2060	.0624	.0004	.0005	.0153	.0067
%RSD	144.2	121.8	31.11	13.59	91.76	45.99	339.3
#1	-.0939	-.0626	-.1639	.0030	-.0002	.0477	.0045
#2	-.0661	H.3316	-.2726	.0037	-.0011	.0347	-.0013
#3	.0276	H.2386	-.1651	.0030	-.0003	.0173	-.0089
Errors	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.1000	.1000	.5000	.0200	.0030	.1000	.0100
Low	-.1000	-.1000	-.5000	-.0200	-.0030	-.1000	-.0100

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	.0210	.0068	-.0077	.0038	.0020	-.0321	.0041
SDev	.0045	.0092	.0061	.0028	.0057	.0195	.0269
%RSD	21.64	136.9	78.90	74.46	290.9	60.86	655.9
#1	.0161	-.0013	-.0146	.0038	.0080	-.0109	-.0256
#2	.0251	.0047	-.0033	.0066	-.0034	-.0361	.0111
#3	.0217	H.0169	-.0052	.0010	.0012	-.0493	.0268
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.000	.0100	.0200	.0100	.1000	.0800	1.000
Low	-1.000	-.0100	-.0200	-.0100	-.1000	-.0800	-1.000

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	.0020	-.0001	H.0231	.2209	.1318	.0084	L-5.373
SDev	.0008	.0428	.0101	.3604	.1201	.0091	.081 nR
%RSD	38.93	28870.	43.95	163.1	91.10	109.1	1.515
#1	.0029	H.0294	.0168 -oiL	.3647	.1481	-.0016	L-5.464
#2	.0019	.0194	H.0348	-.1892	H.2429	.0104	L-5.307
#3	.0013	L-.0492	.0177 -	.4872	.0044	.0163	L-5.349
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Low
High	.0100	.0200	.0200	5.000	.2000	.0200	5.000
Low	-.0100	-.0200	-.0200	-5.000	-.2000	-.0200	-5.000

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	.1950	.0169	-.0165	-.0046
SDev	.2176	.0178	.0131	.0049
%RSD	111.6	105.1	79.31	106.3
#1	.3987	.0092	-.0298	-.0076
#2	.2206	.0043	-.0160	.0010
#3	-.0342	.0373	-.0037	-.0073
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	.5000	.5000	.0300	.0200
Low	-.5000	-.5000	-.0300	-.0200

Method: NEW Sample Name: ccv Operator: CRM
Run Time: 05/01/00 15:12:18
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	H5.505	H5.671	H5.573	5.238	H5.982	H5.512	5.278
SDev	.094	.239	.107	.079	.114	.134	.116
%RSD	1.709	4.209	1.920	1.508	1.906	2.429	2.201
#1	H5.553	5.448	H5.697	5.321	H6.100	H5.656	5.382
#2	H5.565	H5.641	H5.507	5.227	H5.973	5.487	5.299
#3	5.396	H5.923	H5.516	5.165	H5.872	5.392	5.132
Errors	LC High	LC High	LC High	LC Pass	LC High	LC High	LC Pass
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	H5.600	5.379 ✓	5.404	4.967 ✓	H5.667	5.301 ✓	H6.028
SDev	.089	.089	.082	.077	.099	.073	.117
%RSD	1.583	1.662	1.523	1.551	1.745	1.378	1.943
#1	H5.691	5.475	5.481	5.048	H5.777	5.379	H6.146
#2	H5.594	5.364	5.415	4.958	H5.637	5.288	H6.025
#3	H5.514	5.299	5.317	4.895	H5.586	5.235	H5.912
Errors	LC High	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC High
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	5.101	H5.671	5.442	53.16	H5.811	.5497	H59.85
SDev	.084	.108	.103	.91	.293	.0026	1.17
%RSD	1.656	1.901	1.887	1.710	5.042	.4711	1.952
#1	5.190	H5.789	H5.525	53.91	H5.967	H.5519	H61.05
#2	5.090	H5.648	5.474	53.42	5.473	H.5505	H59.81
#3	5.022	H5.577	5.327	52.15	H5.994	.3469	H58.71
Errors	LC Pass	LC High	LC Pass	LC Pass	LC High	LC Pass	LC High
High	5.500	5.500	5.500	55.00	5.500	.5500	55.00
Low	4.500	4.500	4.500	45.00	4.500	.4500	45.00

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	4.798 ✓	-.1538	H5.592	5.561
SDev	.340	.0078	.096	.095
%RSD	7.090	5.059	1.716	1.763
#1	L4.411	-.1552	H5.702	5.464
#2	5.051	-.1608	H5.550	5.339
#3	4.931	-.1454	H5.524	5.279
Errors	LC Pass	NOCHECK	LC High	LC Pass
High	5.500		5.500	5.500
Low	4.500		4.500	4.500

✓

Method: NEW Sample Name: 264716 Operator: CRM
Run Time: 05/01/00 15:33:03
Comment:
Mode: CONC Corr. Factor: 50

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	2299.	3.249	-2.441	14.41	.1101	7.296	-.3850
SDev	77.	7.777	8.251	.43	.0110	1.022	.8761
%RSD	3.370	239.4	338.0	3.003	9.973	14.02	227.5
#1	2384.	5.351	3.126	14.89	.1162	8.316	-.0226
#2	2232.	9.758	-11.92	14.05	.0974	7.301	-1.384
#3	2280.	-5.363	1.470	14.28	.1166	6.271	.2517
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	2437.	6.837	2.043	1.150	4253.	1.499	905.6
SDev	85.	.163	.982	.275	147.	2.738	32.4
%RSD	3.481	2.380	48.07	23.91	3.451	182.6	3.578
#1	2531.	6.906	.9105	.9773	4414.	3.821	941.6
#2	2366.	6.954	2.658	1.006	4127.	-1.520	878.3
#3	2415.	6.651	2.561	1.467	4218.	2.196	896.2
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	84.64	.0501	4.438	211.0	-8.682	-.1150	119.6
SDev	3.08	1.586	.870	20.8	26.607	.2172	4.1
%RSD	3.634	3164.	19.61	9.865	306.5	188.9	3.440
#1	87.97	1.669	5.108	231.3	5.968	-.1090	124.1
#2	81.91	-1.501	4.744	189.7	-39.39	-.3352	118.8
#3	84.04	-.0177	3.453	212.0	7.379	.0992	116.0
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	.9954	-.9536	6.930	11.23
SDev	3.506	.1445	.504	.38
%RSD	352.2	15.16	7.278	3.381
#1	-3.042	-.7867	7.347	11.01
#2	3.275	-1.039	6.369	11.01
#3	2.753	-1.035	7.075	11.67
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: NEW Sample Name:
Run Time: 05/01/00 15:36:03
Comment:
Mode: CONC Corr. Factor: 50 26477

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	3899.	13.82	-12.20	47.89	.1760	9.455	-.6909
SDev	156.	13.78	2.07	1.82	.0203	.920	1.0625
%RSD	4.014	99.72	16.94	3.802	11.54	9.732	153.8
#1	3752.	16.66	-14.31	46.19	.1561	9.887	.3411
#2	3880.	-1.159	-10.18	47.68	.1752	8.399	-1.782
#3	4064.	25.96	-12.09	49.81	.1967	10.08	-.6322
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	321200.	6.636	1.098	6.465	7889.	6.968	6828.
SDev	36717.	.279	.349	.367	319.	.899	318.
%RSD	173.2	4.203	31.75	5.674	4.049	12.91	4.612
#1	363590.	6.349	1.231	6.209	7600.	5.968	6539.
#2	3-.7986	6.654	1.362	6.302	7834.	7.227	6775.
#3	3-.8025	6.906	.7030	6.885	8232.	7.710	7162.
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	208.9	.8430	9.259	496.9	-1.472	.2428	-272.0
SDev	8.1	2.234	1.961	13.5	7.461	.0600	2.2
%RSD	3.870	265.0	21.18	2.717	506.8	24.71	.8083
#1	201.7	-1.443	7.829	489.8	.3824	.2568	-271.9
#2	207.4	.9509	11.50	512.5	-97.685	.2946	-274.2
#3	217.7	3.021	8.453	488.5	4.887	.1771	-269.8
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

8.1

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	37.23	-3.870	8.134	38.54
SDev	12.26	1.715	.389	1.31
%RSD	32.93	44.32	4.788	3.400
#1	37.49	-3.402	7.801	37.40
#2	24.84	-5.771	8.562	38.24
#3	49.36	-2.437	8.038	39.97
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Run Time: 05/01/00 15:39:03
Comment:
Mode: CONC Corr. Factor: 50 264718

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	978.2	12.68	2.076	15.06	.0495	7.258	.0720
SDev	28.7	5.06	7.785	.41	.0121	1.186	.6834
%RSD	2.937	39.93	375.0	2.696	24.56	16.34	948.9
#1	945.5	17.31	-6.890	14.60	.0430	7.468	.0238
#2	989.6	7.273	7.119	15.21	.0419	5.982	-.5860
#3	999.5	13.46	5.999	15.38	.0635	8.325	.7782
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	S21200.	3.224	.9268	2.644	5555.	1.573	6608.
SDev	36723.	.292	.5694	.026	138.	.920	183.
%RSD	173.2	9.046	61.44	.9820	2.483	58.49	2.776
#1	S63600.	3.056	.3632	2.674	5396.	.5847	6397.
#2	S-.7826	3.054	1.502	2.625	5623.	2.404	6698.
#3	S-.7836	3.561	.9153	2.634	5645.	1.729	6730.
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	172.8	-.8588	5.424	190.3	-.6110	.3347	-272.9
SDev	4.2	.6062	1.230	15.7	7.0144	.4006	1.6
%RSD	2.433	70.59	22.67	8.272	1148.	119.7	.5727
#1	168.0	-.9711	6.583	181.4	-8.381	.4500	-274.5
#2	174.8	-.2043	3.556	181.0	5.255	.6651	-271.4
#3	175.6	-1.401	4.134	208.5	1.293	-.1109	-272.9
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

6.1

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	31.95	-2.844	2.756	11.22
SDev	4.84	1.466	.371	.45
%RSD	15.16	51.54	13.47	4.046
#1	28.48	-4.269	2.547	10.71
#2	29.88	-2.924	3.184	11.37
#3	37.48	-1.340	2.336	11.58
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Comment:
Mode: CONC Corr. Factor: 50 264719

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	2287.	11.51	1.179	31.52	.1374	10.00	-.1412
SDev	37.	2.49	8.320	.52	.0206	1.20	.6976
%RSD	1.616	21.61	705.4	1.665	15.00	11.99	494.1
#1	2251.	9.198	-8.340	31.02	.1168	9.001	-.4730
#2	2325.	14.14	7.060	32.07	.1580	11.33	.6603
#3	2285.	11.19	4.818	31.47	.1373	9.679	-.6109
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	S-.7918	6.443	1.559	4.748	7967.	4.890	9156.
SDev	.0007	.457	.103	.211	140.	1.127	135.
%RSD	.0851	7.094	6.581	4.444	1.751	23.05	2.020
#1	S-.7912	5.970	1.462	4.508	7857.	3.594	8991.
#2	S-.7926	6.883	1.667	4.902	8135.	5.645	9356.
#3	S-.7917	6.477	1.549	4.835	7968.	5.432	9121.
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	247.6	-.1686	7.040	445.7	-2.998	.3317	-209.1
SDev	4.5	1.0316	2.030	3.8	7.182	.1736	2.9
%RSD	1.815	611.9	28.83	.8430	239.5	52.36	1.384
#1	243.7	-.6076	5.953	450.0	-10.49	.5312	-209.8
#2	252.5	1.010	9.382	444.1	-2.340	.2152	-205.9
#3	246.6	-.9081	5.785	443.0	3.831	.2486	-211.6
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	30.76	-2.147	6.883	24.91
SDev	6.25	1.628	.075	.93
%RSD	20.33	75.84	1.085	3.717
#1	25.13	-1.729	6.945	23.84
#2	37.49	-.7679	6.800	25.30
#3	29.65	-3.943	6.903	25.35
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Comment:
Mode: CONC Corr. Factor: 50

264719 MS

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	3231.	57.63	53.02	82.12	48.13	57.15	42.29
SDev	22.	7.80	10.26	.48	.35	.66	.45
%RSD	.6828	13.53	19.36	.5846	.7223	1.157	1.071
#1	3254.	51.17	48.24	82.65	48.52	56.67	42.78
#2	3211.	55.44	46.01	81.72	47.84	56.87	42.19
#3	3228.	66.29	64.79	81.99	48.03	57.90	41.90
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	S-.8286	50.41	43.62	47.09	9434.	41.44	8991.
SDev	.0008	.41	.41	.23	61.	2.97	∞.
%RSD	.0910	.8071	.9512	.4818	.6464	7.156	.7353
#1	S-.8281	50.80	44.00	47.16	9502.	43.42	9067.
#2	S-.8281	49.99	43.18	46.84	9386.	42.88	8943.
#3	S-.8294	50.44	43.69	47.27	9414.	38.03	8964.
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	305.1	47.05	46.69	1194.	30.71	45.99	-201.7
SDev	2.3	1.47	1.23	13.	8.04	.36	4.3
%RSD	.7412	3.120	2.636	1.088	26.19	.7859	2.124
#1	307.6	48.73	47.97	1181.	24.99	46.40	-197.1
#2	303.2	46.40	45.52	1196.	27.23	45.72	-202.4
#3	304.5	46.02	46.59	1207.	39.91	45.85	-205.6
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	66.14	-4.313	56.95	69.62
SDev	16.18	1.507	1.07	1.40
%RSD	24.47	34.93	1.877	2.009
#1	55.30	-5.257	57.38	71.06
#2	84.74	-5.106	55.78	68.26
#3	58.38	-2.575	57.17	69.55
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: NEW Sample Name: 264719 msd Operator: CRM

Comment:
Mode: CONC Corr. Factor: 50 2C47/9MSD

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	3301.	44.39	60.63	78.28	54.40	63.25	43.73
SDev	90.	6.02	1.42	2.06	1.88	1.29	1.05
%RSD	2.729	13.56	2.344	2.634	3.463	2.039	2.409
#1	3273.	50.92	60.73	77.55	53.87	62.42	43.74
#2	3402.	39.06	62.00	80.61	56.49	64.74	44.78
#3	3229.	43.20	59.16	76.68	52.83	62.60	42.68
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	S-.8262	53.67	47.47	46.58	9913.	49.23	10370.
SDev	.0010	1.99	1.11	1.51	271.	3.35	336.
%RSD	.1155	3.715	2.329	3.238	2.735	7.820	3.237
#1	S-.8264	52.62	47.17	45.88	9812.	51.13	10280.
#2	S-.8271	55.97	48.69	48.31	10220.	51.77	10740.
#3	S-.8252	52.42	46.54	45.55	9706.	44.30	10090.
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	318.4	49.07	52.64	1226.	43.24	45.03	233.6
SDev	8.7	1.76	2.15	61.	5.03	1.72	9.7
%RSD	2.739	3.592	4.096	4.998	11.64	3.819	4.166
#1	315.0	48.10	52.58	1163.	45.79	45.13	228.4
#2	328.3	51.10	54.82	1286.	37.45	46.70	244.8
#3	311.9	48.00	50.52	1229.	46.50	43.26	227.5
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	79.29	-4.339	58.96	71.53
SDev	24.76	2.373	1.41	2.23
%RSD	31.23	54.69	2.391	3.115
#1	82.92	-6.743	57.62	70.80
#2	102.0	-4.275	60.43	74.03
#3	52.91	-1.998	58.82	69.75
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: NEW Sample Name: 264719 sd Operator: CRM
Run Time: 05/01/00 15:51:05

Method: NEW Sample Name: ccv Operator: CRM
Run Time: 05/01/00 16:00:58
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	5.133	5.186	5.088 ✓	5.198 ✓	5.093	4.896	4.972 ✓
SDev	.088	.355	.084	.085	.115	.099	.113
%RSD	1.709	6.840	1.649	1.640	2.250	2.018	2.267
#1	5.048	4.876	5.066	5.108	4.975	4.789	4.850
#2	5.128	5.110	5.181	5.210	5.102	4.915	4.993
#3	5.223	H5.573	5.017	5.277	5.200	4.984	5.073
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	5.255	4.885 ✓	4.840	4.733	5.208 ✓	4.706 ✓	5.227
SDev	.098	.099	.102	.087	.099	.087	.099
%RSD	1.861	2.029	2.116	1.836	1.899	1.859	1.898
#1	5.154	4.783	4.730	4.642	5.119	4.605	5.115
#2	5.261	4.890	4.856	4.742	5.191	4.756	5.265
#3	5.349	4.981	4.933	4.815	5.315	4.757	5.302
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	4.672 ✓	5.177	4.837 ✓	50.06	5.226 ✓	.5221 ✓	51.64
SDev	.089	.097	.117	.85	.169	.0092	1.35
%RSD	1.913	1.869	2.419	1.700	3.236	1.772	2.613
#1	4.578	5.077	4.706	49.27	5.034	.5140	50.21
#2	4.681	5.184	4.870	49.93	5.353	.5201	51.83
#3	4.756	5.270	4.933	50.96	5.291	.5322	52.89
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	55.00	5.500	.5500	55.00
Low	4.500	4.500	4.500	45.00	4.500	.4500	45.00

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	L4.256 NL	-.1338	5.177	4.964
SDev	.061	.0050	.096	.091
%RSD	1.440	3.723	1.848	1.838
#1	L4.300	-.1281	5.073	4.863
#2	L4.186	-.1369	5.196	4.992
#3	L4.282	-.1365	5.262	5.039
Errors	LC Low	NOCHECK	LC Pass	LC Pass
High	5.500		5.500	5.500
Low	4.500		4.500	4.500

✓

Method: NEW Sample Name: ccb Operator: CRM
Run Time: 05/01/00 16:11:11
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	-.0505	H.1316	-.0741	.0003	-.0008	-.0087	L-.0113
SDev	.0488	.2056	.0154	.0010	.0002	.0189	.0119
%RSD	96.64	156.2	20.76	317.6	27.31	216.5	105.1
#1	L-.1060	H.1764	-.0826	-.0001	-.0011	-.0218	.0022
#2	-.0141	-.0927	-.0563	-.0004	-.0007	.0130	L-.0162
#3	-.0314	H.3111	-.0833	.0015	-.0007	-.0174	L-.0200
Errors	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	.1000	.1000	.5000	.0200	.0030	.1000	.0100
Low	-.1000	-.1000	-.5000	-.0200	-.0030	-.1000	-.0100

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	.0430	.0013	-.0101	-.0019	.0146	-.0364	-.0036
SDev	.0150	.0015	.0095	.0075	.0027	.0466	.0288
%RSD	34.82	115.2	94.47	398.6	18.85	127.9	796.2
#1	.0572	.0027	-.0197	L-.0104	.0177	-.0493	.0151
#2	.0443	.0016	-.0097	.0038	.0136	-.0753	-.0367
#3	.0274	-.0003	-.0007	.0010	.0125	.0152	.0108
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.000	.0100	.0200	.0100	.1000	.0800	1.000
Low	-1.000	-.0100	-.0200	-.0100	-.1000	-.0800	-1.000

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	.0023	-.0157	H.0364	.1770	.1210	.0016	L-6.505
SDev	.0013	.0196	.0323	.7834	.2507	.0025	.075
%RSD	56.01	125.2	88.95	442.5	207.1	156.7	1.150
#1	.0014	-.0191	.0044	-.1619	.1789	-.0004	L-6.583
#2	.0017	L-.0333	H.0691	-.3798	-.1536	.0044	L-6.499
#3	.0038	.0055	H.0355	1.073	H.3377	.0008	L-6.433
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Low
High	.0100	.0200	.0200	5.000	.2000	.0200	5.000
Low	-.0100	-.0200	-.0200	-5.000	-.2000	-.0200	-5.000

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	-.0486	.0142	-.0078	-.0032
SDev	.0212	.0024	.0131	.0045
%RSD	43.63	17.09	166.8	140.8
#1	-.0264	.0120	-.0188	.0012
#2	-.0686	.0168	-.0114	-.0078
#3	-.0508	.0137	.0066	-.0031
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	.5000	.5000	.0300	.0200
Low	-.5000	-.5000	-.0300	-.0200

SDev	.0090	.0077	.0024	.0049	.0095	.0253	.0202
%RSD	1160.	206.4	84.04	258.3	78.69	59.23	195.1
#1	-.0085	-.0071	-.0017	-.0009	-.0224	.0431	.0088
#2	.0091	.0051	-.0012	.0076	-.0039	.0172	-.0084
#3	-.0029	-.0092	-.0055	-.0009	-.0098	.0679	-.0314
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.000	.0100	.0200	.0100	.1000	.0800	1.000
Low	-1.000	-.0100	-.0200	-.0100	-.1000	-.0800	-1.000
Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	-.0014	L-.0235	.0001	-.3562	H.3247	.0016	-.1572
SDev	.0019	.0236	.0072	.0874	.1555	.0073	.0634
%RSD	137.3	100.7	9613.	24.53	47.87	463.7	40.35
#1	-.0031	-.0083	-.0055	-.4277	H.5033	.0002	-.1705
#2	.0007	-.0114	.0082	-.2588	H.2200	.0080	-.0882
#3	-.0018	L-.0507	-.0024	-.3820	H.2508	-.0064	-.2130
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC High	LC Pass	LC Pass
High	.0100	.0200	.0200	5.000	.2000	.0200	5.000
Low	-.0100	-.0200	-.0200	-5.000	-.2000	-.0200	-5.000
Elem	Tl1908	Sn1899	V_2924	Zn2138			
Avge	-.0960	.0089	-.0032	-.0043			
SDev	.1779	.0457	.0072	.0049			
%RSD	185.3	512.1	224.5	113.2			
#1	-.2818	-.0407	.0045	-.0071			
#2	.0729	.0322	-.0098	.0013			
#3	-.0792	.0383	-.0044	-.0072			
Errors	LC Pass	LC Pass	LC Pass	LC Pass			
High	.5000	.5000	.0300	.0200			
Low	-.5000	-.5000	-.0300	-.0200			

Method: NEW Sample Name: crdl Operator: IRM
Run Time: 05/01/00 23:25:03
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	.0613	H.4317	.0640	.0360	H.0262	.0433	.0205
SDev	.1147	.2408	.0927	.0014	.0004	.0189	.0160
%RSD	187.1	55.78	144.9	3.988	1.582	43.75	78.08
#1	-.0559	H.5861	.0115	.0345	H.0257	.0302	.0249
#2	.0665	L.1542	.1710	.0362	H.0266	.0650	L.0028
#3	.1734	H.5547	.0094	.0373	H.0262	.0347	H.0338
Errors	NOCHECK	LC High	NOCHECK	NOCHECK	LC High	NOCHECK	LC Pass
High		.3000			.0250		.0250
Low		.1800			.0150		.0150
Elem	Ca3[illegible]		Co2286	Cu3247	Fe2599	Pb2203	Mg2790

Avge	.1720	.0483	H.2536	.1241	.0037	.0653	.0528
SDev	.0021	.0048	.0078	.0085	.0006	.0350	.0472
%RSD	1.201	9.958	3.070	6.862	14.81	53.50	89.30
#1	.1896	.0465	H.2529	.1156	.0043	.0295	.0458
#2	.1734	.0446	H.2618	.1241	.0036	.0993	.0096
#3	.1730	H.0537	.2462	H.1326	.0032	.0671	.1031
Errors	NOCHECK	LC Pass	LC High	LC Pass	NOCHECK	NOCHECK	NOCHECK
High		.0500	.2500	.1250			
Low		.0300	.1500	.0750			

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	.0731	-.0197	.1799	-.4262	.1420	H.0530	7.411
SDev	.0050	.0200	.0034	.6209	.2598	.0028	.228
%RSD	6.819	101.3	1.892	145.7	182.9	5.250	3.073
#1	.0670	-.0415	.1792	-1.099	.3147	H.0514	7.134
#2	H.0761	-.0153	.1779	.1246	-.1366	H.0514	7.432
#3	H.0736	-.0022	.1807	-.3044	.2682	H.0562	7.367
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC High	NOCHECK
High	.0750		.2000			.0500	
Low	.0450		.1200			.0300	

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	.0697	.0027	.2371	H.1012
SDev	.1316	.0214	.0023	.0086
%RSD	188.8	795.1	1.056	8.537
#1	-.0683	.0226	.2400	H.1098
#2	.0837	.0054	.2354	H.1012
#3	.1938	-.0199	.2360	.0926
Errors	NOCHECK	NOCHECK	LC Pass	LC High
High			.2500	.1000
Low			.1500	.0600

Method: NEW Sample Name: Intal Operator: IPM
Run Time: 05/01/00 23:28:04
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	12.27	.3023	.1359	.0210	-.0004	.0663	-.0127
SDev	.13	.0379	.1041	.0007	.0000	.0072	.0052
%RSD	1.069	11.39	76.58	3.267	6.831	10.87	40.69
#1	12.37	.3632	.0278	.0217	-.0004	.0712	-.0083
#2	12.12	.3437	.1446	.0204	-.0004	.0695	-.0114
#3	12.33	.2901	.2354	.0208	-.0004	.0580	-.0184
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	14.40						
Low	9.600						

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790

Avge	59.39	-.0047	.0036	-.0001	50.50	.0341	29.89
SDev	1.03	.0095	.0023	.0048	.86	.0582	.34
%RSD	1.732	202.0	64.09	7021.	1.693	170.6	1.805
#1	59.98	-.0111	.0062	-.0055	50.95	.0467	30.11
#2	58.21	-.0091	.0017	.0024	49.51	-.0293	29.27
#3	59.99	.0062	.0029	.0030	51.03	.0850	30.27
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	LC Pass
High	72.00				60.00		36.00
Low	48.00				40.00		24.00
Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	-.0008	.0022	-.0057	-.0352	.0077	.0044	10.38
SDev	.0049	.0128	.0024	.4133	.2268	.0028	.20
%RSD	644.6	585.4	41.48	1173.	600.8	65.02	1.835
#1	.0049	-.0084	-.0038	-.4492	.2896	.0076	10.98
#2	-.0039	-.0014	-.0050	-.0039	-.0260	.0028	10.65
#3	-.0032	.0164	-.0084	.3774	-.1504	.0028	11.30
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High							12.00
Low							8.000
Elem	Tl1908	Sn1899	V_2924	Zn2138			
Avge	.1152	.0028	-.0116	-.0023			
SDev	.0966	.0427	.0148	.0026			
%RSD	83.84	1523.	128.5	114.4			
#1	.2267	.0117	-.0243	-.0039			
#2	.0601	-.0436	-.0151	-.0037			
#3	.0588	.0403	.0048	.0007			
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK			
High							
Low							

Method: NEW Sample Name: intbl Operator: IRM
Run Time: 05/01/00 23:01:06
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	11.75	9.524	8.024	2.821	1.095	4.805	2.815
SDev	.58	.675	.680	.139	.070	.305	.137
%RSD	4.922	7.092	8.475	4.929	6.416	6.341	4.855
#1	11.09	8.799	7.248	2.664	1.015	4.457	2.666
#2	12.04	9.636	8.514	2.868	1.122	4.934	2.844
#3	12.13	10.14	8.312	2.930	1.148	5.024	2.904
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	14.40	12.00	12.00			6.000	3.600
Low	9.600	8.000	8.000			4.000	2.400
Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790

Avge	61.59	2.949	3.037	2.703	51.25	9.574	32.44
SDev	3.40	.162	.166	.155	2.80	.465	2.08
%RSD	5.518	5.403	5.466	5.739	5.465	4.857	6.419
#1	57.38	2.815	2.846	2.525	48.03	9.049	30.04
#2	63.26	3.060	3.120	2.768	52.55	9.737	33.60
#3	63.83	3.122	3.145	2.814	53.15	9.935	33.70
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	72.00	3.600	3.600	3.600	60.00	12.00	36.00
Low	48.00	2.400	2.400	2.400	40.00	8.000	24.00
Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	1.872	3.091	2.921	187.2	5.247	2.903	H16.33
SDev	.096	.192	.176	9.3	.389	.187	.76
%RSD	5.137	6.222	6.016	5.210	7.406	6.420	4.649
#1	1.762	2.875	2.718	176.2	4.799	2.727	H15.49
#2	1.910	3.156	3.009	190.0	5.501	2.950	H16.75
#3	1.943	3.243	3.035	194.8	5.440	3.030	H16.78
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC High
High	2.400	3.600	3.600	240.0	6.000		12.00
Low	1.600	2.400	2.400	160.0	4.000		8.000
Elem	Tl1908	Sn1899	V_2924	Zn2138			
Avge	8.963	5.796	2.841	2.958			
SDev	.044	.361	.178	.158			
%RSD	0.495	6.228	6.257	5.326			
#1	8.966	5.387	2.636	2.777			
#2	9.174	5.902	2.930	3.031			
#3	9.149	6.070	2.956	3.066			
Errors	LC Pass	NOCHECK	LC Pass	LC Pass			
High	12.00		3.600	3.600			
Low	8.000		2.400	2.400			

Method: NEW Standard: Ag (610)
Run Time: 05/03/00 08:09:12

Elem	Ag3280
Avge	.2526
SDev	.0026
%RSD	1.029
#1	.2552
#2	.2526
#3	.2500

Method: NEW Standard: HIGH (595)
Run Time: 05/03/00 08:11:35

Elem	Al3082	Ca3179	Fe2599	Mg2790	K_7664	Na5889
Avge	6.641	74.31	10.21	4.488	2.987	14.11
SDev	.032	.43	.06	.026	.023	.08
%RSD	.4877	.5846	.5797	.5899	.7832	.6008
#1	6.612	73.88	10.15	4.459	2.982	14.04
#2	6.636	74.29	10.20	4.493	2.967	14.09
#3	6.676	74.75	10.27	4.511	3.013	14.20

Method: NEW Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Al3082	308.215	HIGH (595)	STD1-Blank	7.53519	-.042699	05/03/00 08:11:35
Sb2068	206.838	ST1 (575)	STD1-Blank	46.0159	-.015339	05/03/00 08:11:35
As1936	193.696	ST1 (575)	STD1-Blank	29.2058	.013629	05/03/00 08:11:35
Ba4934	493.409	ST1 (575)	STD1-Blank	.615621	-.001313	05/03/00 08:11:35
Be3130	313.042	ST1 (575)	STD1-Blank	.739334	-.001134	05/03/00 08:11:35
B_2496	249.678	ST1 (575)	STD1-Blank	8.51065	-.002837	05/03/00 08:11:35
Cd2288	228.802	ST1 (575)	STD1-Blank	19.0830	-.005089	05/03/00 08:11:35
Ca3179	317.933	HIGH (595)	STD1-Blank	.672938	-.004352	05/03/00 08:11:35
Cr2677	267.716	ST1 (575)	STD1-Blank	3.74440	-.002247	05/03/00 08:11:35
Co2286	228.616	ST1 (575)	STD1-Blank	9.48429	-.003794	05/03/00 08:11:35
Cu3247	324.754	ST1 (575)	STD1-Blank	8.68035	-.012731	05/03/00 08:11:35
Fe2599	259.940	HIGH (595)	STD1-Blank	4.89546	-.000326	05/03/00 08:11:35
Pb2203	220.353	ST1 (575)	STD1-Blank	39.4486	-.007890	05/03/00 08:11:35
Mg2790	279.078	HIGH (595)	STD1-Blank	11.1482	-.015608	05/03/00 08:11:35
Mn2576	257.610	ST1 (575)	STD1-Blank	9.54806	.000000	05/03/00 08:11:35
Mo2020	202.000	ST1 (575)	STD1-Blank	13.9145	-.001855	05/03/00 08:11:35
Ni2316	231.604	ST1 (575)	STD1-Blank	2.73793	-.004563	05/03/00 08:11:35
K_7664	766.491	HIGH (595)	STD1-Blank	17.8654	-3.37775	05/03/00 08:11:35

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Se1960	196.026	ST1 (575)	STD1-Blank	72.5163	-.125695	05/03/00 08:11:35
Ag3280	328.068	Ag (610)	STD1-Blank	3.99467	-.009055	05/03/00 08:11:35
Na5889	588.995	HIGH (595)	STD1-Blank	3.81481	-3.82092	05/03/00 08:11:35
Tl1908	190.864	ST1 (575)	STD1-Blank	46.9274	-.009385	05/03/00 08:11:35
Sn1899	189.989	Sn (614)	STD1-Blank	7.90722	.005799	05/03/00 08:11:35
V_2924	292.402	ST1 (575)	STD1-Blank	6.23975	-.007488	05/03/00 08:11:35
Zn2138	213.856	ST1 (575)	STD1-Blank	17.8527	-.001190	05/03/00 08:11:35

Analysis Report 05/03/00 08:20:59 AM

Method: NEW Sample Name: icvag Operator: CRM
Run Time: 05/03/00 08:18:02
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	.0083	-.1442	.0308	.0150	.0003	.0265	.0030
SDev	.0201	.0277	.0702	.0020	.0002	.0026	.0077
%RSD	243.0	19.19	227.7	13.33	66.87	9.700	259.6
#1	.0248	-.1720	.0307	.0173	.0004	.0293	.0017
#2	-.0141	-.1167	.1011	.0143	.0001	.0243	-.0040
#3	.0141	-.1439	-.0393	.0135	.0004	.0260	.0112
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	.1635	-.0007	-.0011	-.0087	.0558	.0156	.0192
SDev	.0037	.0015	.0056	.0036	.0051	.0439	.0167
%RSD	2.261	198.9	517.6	41.67	9.110	281.0	87.20
#1	.1678	-.0007	.0028	-.0075	.0603	.0630	.0270
#2	.1616	-.0022	-.0075	-.0127	.0570	.0077	-.0000
#3	.1612	.0007	.0014	-.0058	.0503	-.0238	.0306
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	.0003	-.0051	-.0097	-.4871	-.1736	1.020	.7589
SDev	.0003	.0200	.0093	.3604	.1230	.006	.0543
%RSD	107.5	395.5	95.77	73.98	70.86	.5764	7.159
#1	.0002	.0115	-.0002	-.2477	-.2990	1.014	.8171
#2	.0000	.0007	-.0188	-.9016	-.1687	1.022	.7096
#3	.0006	-.0273	-.0101	-.3120	-.0531	1.025	.7499
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK
High						1.100	
Low						.9000	

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	.0152	.0111	-.0073	.0179
SDev	.1027	.0106	.0054	.0020
%RSD	675.6	95.36	73.05	11.30
#1	-.0190	.0233	-.0031	.0166
#2	-.0660	.0059	-.0056	.0167
#3	.1307	.0042	-.0134	.0202
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: NEW Sample Name: icv1 Operator: CRM
Run Time: 05/03/00 08:26:21
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	.1632	9.987	10.13	.0260	10.02	.7390	10.11
SDev	.0090	.133	.05	.0025	.03	.0265	.08
%RSD	5.508	1.335	.4592	9.615	.3056	3.587	.7477
#1	.1552	10.00	10.15	.0287	10.02	.7668	10.12
#2	.1614	9.847	10.17	.0255	9.984	.7363	10.04
#3	.1729	10.11	10.08	.0238	10.05	.7140	10.19
Errors	NOCHECK	LC Pass	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass
High		11.00	11.00		11.00		11.00
Low		9.000	9.000		9.000		9.000

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	10.15	10.04	10.03	9.847	10.21	10.17	9.924
SDev	.03	.03	.03	.036	.03	.07	.047
%RSD	.3273	.3380	.3332	.3619	.3152	.7153	.4694
#1	10.14	10.04	10.02	9.856	10.20	10.09	9.927
#2	10.12	10.02	10.01	9.808	10.18	10.18	9.875
#3	10.18	10.08	10.07	9.877	10.24	10.23	9.968
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	11.00	11.00	11.00	11.00	11.00	11.00	11.00
Low	9.000	9.000	9.000	9.000	9.000	9.000	9.000

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	10.01	10.03	10.07	.2845	10.01	.0034	1.218
SDev	.04	.02	.11	.2000	.15	.0039	.020
%RSD	.3850	.2373	1.126	70.30	1.451	116.3	1.610
#1	9.994	10.05	10.07	.5096	9.863	.0007	1.203
#2	9.975	10.01	9.959	.1273	10.01	.0079	1.240
#3	10.05	10.05	10.19	.2166	10.15	.0015	1.211
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK
High	11.00		11.00		11.00		
Low	9.000		9.000		9.000		

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	10.07	-.2578	10.02	9.904
SDev	.12	.0147	.05	.027
%RSD	1.185	5.716	.4621	.2711
#1	9.942	-.2414	10.01	9.910
#2	10.17	-.2621	9.975	9.875
#3	10.10	-.2699	10.07	9.928
Errors	LC Pass	NOCHECK	LC Pass	LC Pass
High	11.00		11.00	11.00
Low	9.000		9.000	9.000

Method: NEW Sample Name: ccv Operator: CRM
Run Time: 05/03/00 08:30:29
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	4.795	4.780	5.036	5.063	4.832	4.573	4.929
SDev	.057	.192	.109	.023	.022	.012	.034
%RSD	1.197	4.011	2.155	.4484	.4619	.2605	.6813
#1	4.856	4.630	4.911	5.048	4.818	4.572	4.913
#2	4.743	4.714	5.093	5.052	4.820	4.562	4.906
#3	4.786	4.996	5.104	5.089	4.858	4.586	4.968
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	5.105	4.888	4.914	4.719	4.994	4.950	4.856
SDev	.014	.024	.030	.020	.023	.012	.031
%RSD	.2667	.4955	.6010	.4174	.4606	.2336	.6412
#1	5.100	4.882	4.910	4.705	4.987	4.963	4.872
#2	5.094	4.867	4.887	4.710	4.976	4.947	4.823
#3	5.120	4.915	4.946	4.741	5.020	4.940	4.881
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	4.839	4.928	4.933	47.35	4.891	.4662	47.72
SDev	.028	.054	.068	.19	.022	.0044	.17
%RSD	.5701	1.093	1.378	.3964	.4547	.9456	.3569
#1	4.832	4.888	4.866	47.55	4.910	.4691	47.65
#2	4.816	4.907	5.002	47.32	4.867	.4611	47.59
#3	4.870	4.989	4.932	47.18	4.897	.4683	47.91
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	55.00	5.500	.5500	55.00
Low	4.500	4.500	4.500	45.00	4.500	.4500	45.00

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	4.883	-.1220	4.893	4.847
SDev	.170	.0056	.021	.030
%RSD	3.485	4.554	.4217	.6090
#1	5.007	-.1274	4.874	4.840
#2	4.689	-.1163	4.890	4.822
#3	4.953	-.1223	4.915	4.880
Errors	LC Pass	NOCHECK	LC Pass	LC Pass
High	5.500		5.500	5.500
Low	4.500		4.500	4.500

✓

Method: NEW Sample Name: ccb Operator: CRM
Run Time: 05/03/00 08:36:56
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	.0098	.0091	-.0137	.0004	.0003	.0165	-.0034
SDev	.0121	.1097	.0333	.0003	.0001	.0010	.0082
%RSD	124.1	1204.	242.9	69.40	39.87	5.892	238.0
#1	-.0006	L-.1165	.0136	.0007	.0005	.0176	.0060
#2	.0231	.0857	-.0508	.0002	.0003	.0159	-.0075
#3	.0068	.0581	-.0040	.0003	.0002	.0159	-.0088
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.1000	.1000	.5000	.0200	.0030	.1000	.0100
Low	-.1000	-.1000	-.5000	-.0200	-.0030	-.1000	-.0100

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	.0085	.0000	-.0032	-.0075	.0001	.0209	.0017
SDev	.0016	.0020	.0019	.0035	.0016	.0482	.0050
%RSD	19.08	12560.	59.90	46.22	2412.	230.0	302.3
#1	.0102	.0008	-.0011	-.0041	.0018	.0630	.0045
#2	.0084	-.0022	-.0049	L-.0110	-.0004	.0314	-.0041
#3	.0069	.0015	-.0036	-.0075	-.0012	-.0316	.0046
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.000	.0100	.0200	.0100	.1000	.0800	1.000
Low	-1.000	-.0100	-.0200	-.0100	-.1000	-.0800	-1.000

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	.0003	.0085	.0074	-.1667	-.1642	-.0008	.7309
SDev	.0014	.0065	.0148	.5056	.0603	.0009	.0232
%RSD	440.9	75.95	201.7	303.2	36.71	115.7	3.169
#1	-.0003	.0021	H.0240	.3418	-.0966	-.0003	.7423
#2	-.0007	.0150	.0027	-.6694	L-.2125	-.0019	.7462
#3	.0020	.0085	-.0046	-.1727	-.1836	-.0003	.7043
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0100	.0200	.0200	5.000	.2000	.0200	5.000
Low	-.0100	-.0200	-.0200	-5.000	-.2000	-.0200	-5.000

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	-.1158	.0032	.0015	-.0000
SDev	.1418	.0159	.0104	.0021
%RSD	122.4	490.1	693.7	6340.
#1	-.1783	.0043	.0099	-.0013
#2	-.2156	.0185	.0047	.0024
#3	.0464	-.0131	-.0101	-.0012
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	.5000	.5000	.0300	.0200
Low	-.5000	-.5000	-.0300	-.0200

Method: NEW Sample Name: icv1a Operator: CRM
Run Time: 05/03/00 08:46:25
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	10.26	-.0698	.0609	10.96	.0006	9.262	-.0107
SDev	.03	.0933	.0617	.04	.0001	.050	.0061
%RSD	.2801	133.8	101.3	.3746	13.92	.5396	56.74
#1	10.23	.0378	-.0090	10.96	.0006	9.221	-.0165
#2	10.26	-.1188	.1077	10.92	.0006	9.248	-.0043
#3	10.29	-.1284	.0840	H11.00	.0005	9.318	-.0114
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	LC Pass	NOCHECK
High	11.00			11.00		11.00	
Low	9.000			9.000		9.000	

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	.2443	.0005	-.0040	-.0099	.0630	.0163	-.0038
SDev	.0008	.0024	.0044	.0010	.0009	.0364	.0057
%RSD	.3135	447.9	110.3	10.22	1.376	223.1	149.5
#1	.2440	-.0022	-.0035	-.0093	.0621	.0375	.0021
#2	.2437	.0023	.0001	-.0093	.0638	-.0257	-.0092
#3	.2452	.0016	-.0087	-.0111	.0631	.0371	-.0043
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	.0023	-.0024	.0035	101.5	-.1983	9.727	10.38
SDev	.0011	.0108	.0168	.4	.1107	.033	.03
%RSD	50.16	447.5	483.5	.3595	55.81	.3416	.2940
#1	.0014	-.0051	-.0122	101.9	-.0775	9.720	10.35
#2	.0036	-.0116	.0212	101.2	-.2226	9.697	10.39
#3	.0018	.0094	.0014	101.5	-.2948	9.763	10.41
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass
High				110.0			11.00
Low				90.00			9.000

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	-.0659	.0325	-.0041	.0084
SDev	.0324	.0362	.0031	.0019
%RSD	49.17	111.2	76.19	23.23
#1	-.0845	-.0092	-.0021	.0061
#2	-.0846	.0541	-.0024	.0094
#3	-.0285	.0527	-.0077	.0095
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: NEW Sample Name: crdl 1 Operator: CRM
Run Time: 05/03/00 08:48:46
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	.0328	L.1714	.0346	.0262	.0219	.0452	.0219
SDev	.0123	.0804	.0640	.0031	.0004	.0059	.0070
%RSD	37.58	46.90	184.9	12.01	1.711	13.11	31.85
#1	.0348	L.1498	.1066	.0297	.0220	.0514	L.0149
#2	.0439	L.1041	.0131	.0252	.0215	.0396	H.0289
#3	.0196	.2605	-.0159	.0237	.0223	.0447	.0220
Errors	NOCHECK	LC Low	NOCHECK	NOCHECK	LC Pass	NOCHECK	LC Pass
High		.3000			.0250		.0250
Low		.1800			.0150		.0150

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	.0875	.0458	.2160	.0985	.0043	.0284	.0453
SDev	.0068	.0041	.0083	.0017	.0026	.0206	.0198
%RSD	7.801	9.000	3.825	1.767	60.45	72.54	43.63
#1	.0953	H.0500	.2164	.1003	.0013	.0205	.0676
#2	.0830	.0456	.2076	.0968	.0057	.0518	.0385
#3	.0842	.0418	.2241	.0985	.0059	.0129	.0298
Errors	NOCHECK	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High		.0500	.2500	.1250			
Low		.0300	.1500	.0750			

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	.0651	-.0015	.1712	.4990	-.1057	.0486	.9054
SDev	.0013	.0040	.0059	.7270	.0730	.0049	.0222
%RSD	2.009	261.1	3.428	145.7	69.11	10.00	2.448
#1	.0643	-.0024	.1780	1.310	-.0380	H.0518	.8864
#2	.0644	-.0050	.1676	-.0941	-.1831	H.0510	.9298
#3	.0666	.0028	.1681	.2811	-.0959	.0430	.9001
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK
High	.0750		.2000			.0500	
Low	.0450		.1200			.0300	

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	-.0808	.0128	.2216	.0853
SDev	.1190	.0209	.0033	.0000
%RSD	147.3	163.7	1.492	.0352
#1	-.1495	.0312	.2247	.0853
#2	-.1496	-.0099	.2219	.0853
#3	.0566	.0170	.2181	.0853
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass
High			.2500	.1000
Low			.1500	.0600

Method: NEW Sample Name: inta1 Operator: CRM
Run Time: 05/03/00 08:51:46
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	12.07	-.0568	.0082	.0192	.0001	.0146	-.0095
SDev	.07	.0784	.0330	.0010	.0001	.0004	.0066
%RSD	.5697	138.1	401.1	5.367	70.85	2.978	69.43
#1	12.03	-.1365	-.0282	.0204	.0001	.0144	-.0021
#2	12.04	.0202	.0359	.0186	.0001	.0143	-.0115
#3	12.15	-.0540	.0170	.0185	.0002	.0151	-.0148
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	14.40						
Low	9.600						

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	60.96	-.0025	-.0010	-.0026	51.48	.0028	31.06
SDev	.33	.0023	.0026	.0036	.33	.0120	.14
%RSD	.5346	93.21	272.7	138.1	.6464	423.1	.4407
#1	60.82	-.0044	-.0006	-.0056	51.28	-.0102	31.02
#2	60.73	-.0030	-.0037	.0014	51.30	.0135	30.98
#3	61.34	.0000	.0015	-.0036	51.86	.0053	31.24
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	LC Pass
High	72.00				60.00		36.00
Low	48.00				40.00		24.00

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	.0090	.0004	.0052	.0833	-.1550	-.0001	11.05
SDev	.0007	.0140	.0046	.1049	.0936	.0014	.04
%RSD	7.269	3527.	88.99	125.9	60.38	907.5	.3527
#1	.0095	.0138	.0095	.1773	-.0872	.0014	11.05
#2	.0083	-.0141	.0003	.1023	-.2617	-.0010	11.01
#3	.0094	.0014	.0057	-.0298	-.1160	-.0009	11.09
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High							12.00
Low							8.000

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	.2904	.0011	-.0202	.0014
SDev	.1979	.0140	.0116	.0037
%RSD	68.15	1296.	57.37	271.3
#1	.4405	.0059	-.0282	-.0023
#2	.0661	.0121	-.0069	.0051
#3	.3647	-.0147	-.0255	.0013
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: NEW Sample Name: intbl Operator: CRM
Run Time: 05/03/00 08:54:46
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	11.76	9.303	L7.415	3.104	.9790	4.424	2.992
SDev	.01	.228	.266	.007	.0034	.011	.013
%RSD	.0951	2.448	3.585	.2394	.3423	.2559	.4303
#1	11.78	9.158	L7.674	3.103	.9799	4.435	2.979
#2	11.76	9.185	L7.429	3.112	.9818	4.424	3.004
#3	11.75	9.565	L7.143	3.098	.9753	4.413	2.993
Errors	LC Pass	LC Pass	LC Low	NOCHECK	NOCHECK	LC Pass	LC Pass
High	14.40	12.00	12.00			6.000	3.600
Low	9.600	8.000	8.000			4.000	2.400

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	59.50	2.975	3.085	2.895	49.24	10.02	30.07
SDev	.15	.010	.004	.009	.16	.04	.13
%RSD	.2593	.3362	.1188	.3022	.3309	.4392	.4330
#1	59.46	2.973	3.089	2.896	49.41	9.977	30.07
#2	59.66	2.986	3.084	2.903	49.25	10.03	30.21
#3	59.36	2.967	3.082	2.886	49.08	10.06	29.95
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	72.00	3.600	3.600	3.600	60.00	12.00	36.00
Low	48.00	2.400	2.400	2.400	40.00	8.000	24.00

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	1.986	2.931	3.017	194.4	4.662	2.857	10.63
SDev	.003	.036	.039	.2	.055	.011	.04
%RSD	.1661	1.239	1.299	.1084	1.175	.3824	.3862
#1	1.984	2.939	3.043	194.1	4.600	2.855	10.61
#2	1.989	2.962	2.972	194.6	4.702	2.869	10.68
#3	1.983	2.891	3.037	194.4	4.686	2.847	10.60
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass
High	2.400	3.600	3.600	240.0	6.000		12.00
Low	1.600	2.400	2.400	160.0	4.000		8.000

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	10.27	5.042	2.600	2.989
SDev	.36	.138	.007	.011
%RSD	3.506	2.729	.2789	.3713
#1	10.07	5.146	2.606	2.986
#2	10.69	5.095	2.592	3.001
#3	10.06	4.886	2.603	2.979
Errors	LC Pass	NOCHECK	LC Pass	LC Pass
High	12.00		3.600	3.600
Low	8.000		2.400	2.400

Method: NEW Sample Name: ccv Operator: CRM
Run Time: 05/04/00 13:14:07
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	4.848	4.944	4.801 ✓	5.239 ✓	4.968	4.724	4.978 ✓
SDev	.043	.092	.110	.048	.041	.031	.035
%RSD	.8900	1.861	2.287	.9152	.8343	.6664	.7040
#1	4.804	4.843	4.705	5.185	4.920	4.688	4.952
#2	4.851	4.968	4.921	5.256	4.988	4.737	4.964
#3	4.890	5.023	4.778	5.276	4.996	4.746	5.018
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	4.849	4.890 ✓	4.895	4.880	4.975 ✓	4.811 ✓	4.779
SDev	.040	.033	.041	.041	.040	.048	.052
%RSD	.8349	.6679	.8378	.8388	.8055	.9954	1.087
#1	4.803	4.852	4.848	4.833	4.931	4.763	4.737
#2	4.869	4.909	4.913	4.900	4.987	4.812	4.763
#3	4.877	4.908	4.924	4.908	5.009	4.859	4.837
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	4.863 ✓	4.941	4.958 ✓	48.13	5.000 ✓	.4758 ✓	48.75
SDev	.035	.077	.049	.18	.112	.0044	.49
%RSD	.7202	1.568	.9831	.3826	2.234	.9165	1.006
#1	4.823	4.852	4.902	47.97	4.967	.4712	48.20
#2	4.882	4.993	4.982	48.08	4.908	.4799	48.95
#3	4.884	4.978	4.991	48.33	5.124	.4763	49.12
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	55.00	5.500	.5500	55.00
Low	4.500	4.500	4.500	45.00	4.500	.4500	45.00

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	4.745	-.1541	4.963	4.930
SDev	.126	.0251	.037	.034
%RSD	2.653	16.31	.7462	.6978
#1	4.604	-.1302	4.920	4.891
#2	4.784	-.1803	4.983	4.952
#3	4.846	-.1518	4.986	4.948
Errors	LC Pass	NOCHECK	LC Pass	LC Pass
High	5.500		5.500	5.500
Low	4.500		4.500	4.500

✓

Method: NEW Sample Name: ccb Operator: CRM
Run Time: 05/04/00 13:20:35
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	-.0163	.0399	-.0761	.0018	.0001	.0231	.0069
SDev	.0215	.0365	.0492	.0005	.0001	.0018	.0049
%RSD	131.9	91.36	64.65	26.91	100.5	7.645	70.93
#1	-.0023	.0400	-.1319	.0015	.0002	.0231	H.0119
#2	-.0411	.0034	-.0388	.0016	.0002	.0249	.0023
#3	-.0055	.0764	-.0577	.0024	-.0000	.0214	.0064
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.1000	.1000	.5000	.0200	.0030	.1000	.0100
Low	-.1000	-.1000	-.5000	-.0200	-.0030	-.1000	-.0100

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	.0292	-.0030	-.0002	.0005	.0013	-.0287	.0053
SDev	.0035	.0024	.0027	.0024	.0026	.0253	.0175
%RSD	12.07	80.21	1717.	453.6	196.8	87.93	333.3
#1	.0252	-.0056	-.0026	-.0021	-.0016	-.0471	-.0134
#2	.0318	-.0012	-.0006	.0011	.0024	.0001	.0214
#3	.0305	-.0020	.0027	.0027	.0033	-.0391	.0077
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.000	.0100	.0200	.0100	.1000	.0800	1.000
Low	-1.000	-.0100	-.0200	-.0100	-.1000	-.0800	-1.000

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	-.0012	-.0060	.0122	.0229	-.0362	-.0060	2.251
SDev	.0004	.0054	.0146	.4363	.0709	.0030	.023
%RSD	36.66	89.13	119.7	1901.	196.1	49.96	1.041
#1	-.0009	-.0115	-.0031	-.4768	-.1136	-.0083	2.226
#2	-.0010	-.0058	H.0259	.3276	-.0207	-.0026	2.255
#3	-.0017	-.0008	.0137	.2181	.0258	-.0069	2.273
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0100	.0200	.0200	5.000	.2000	.0200	5.000
Low	-.0100	-.0200	-.0200	-5.000	-.2000	-.0200	-5.000

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	.0443	-.0280	-.0011	-.0025
SDev	.1505	.0149	.0100	.0020
%RSD	339.6	53.47	876.9	80.40
#1	.1563	-.0111	-.0104	-.0013
#2	.1034	-.0332	-.0024	-.0014
#3	-.1267	-.0396	.0094	-.0048
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	.5000	.5000	.0300	.0200
Low	-.5000	-.5000	-.0300	-.0200

Method: NEW Sample Name: mb 1230 Operator: CRM
Run Time: 05/04/00 13:26:37
Comment:
Mode: CONC Corr. Factor: 50

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	-1.830	.1599	-.6021 ✓	.1593 ✓	-.0161	.3570	.3752 ✓
SDev	.511	1.655	4.3731	.0177	.0001	.1785	.4833
%RSD	27.92	1035.	726.4	11.09	.8731	50.00	128.8
#1	-1.302	-.2923	2.073	.1408	-.0161	.3582	-.1755
#2	-2.321	1.994	-5.649	.1610	-.0159	.5350	.5718
#3	-1.866	-1.222	1.769	.1760	-.0162	.1779	.7292
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	3.108	-.0617 ✓	.0551	-.0260	-.0645 ✓	-.9095 ✓	.7281
SDev	.188	.0367	.1938	.0790	.1063	.9900	.9161
%RSD	6.038	59.57	351.7	304.2	164.9	108.8	125.8
#1	3.192	-.0613	.0775	.0532	.0268	.0045	1.768
#2	2.892	-.0986	.2368	-.1049	-.1811	-.7720	.3745
#3	3.238	-.0251	-.1490	-.0263	-.0391	-1.961	.0414
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	-.0593 ✓	-.1794	-.1793 ✓	-4.643	-.0030 ✓	-.0834 ✓	51.62
SDev	.0060	.3423	.3719	19.319	4.9678	.1444	1.41
%RSD	10.14	190.8	207.4	416.1	163300.	173.2	2.729
#1	-.0525	-.1893	.2490	17.63	-5.671	.0834	50.34
#2	-.0615	-.5167	-.4202	-16.80	3.598	-.1669	51.40
#3	-.0640	.1677	-.3668	-14.76	2.063	-.1665	53.13
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	1.039	-1.135	.0742	-.1785
SDev	2.441	.659	.0836	.1015
%RSD	235.0	58.10	112.7	56.85
#1	3.406	-1.663	.0910	-.0613
#2	1.181	-1.347	-.0166	-.2374
#3	-1.471	-.3958	.1480	-.2368
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

✓

cc AS

Method: NEW Sample Name: lcs 1230 Operator: CRM
Run Time: 05/04/00 13:29:38
Comment:
Mode: CONC Corr. Factor: 50

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	53.60	46.98	44.85 ✓	52.62 ✓	49.08	48.69	48.73 ✓
SDev	.40	3.01	4.59	.05	.08	.54	.28
%RSD	.7452	6.408	10.23	.0888	.1641	1.109	.5711
#1	53.15	50.19	45.99	52.58	49.00	48.43	48.52
#2	53.74	46.51	39.80	52.60	49.09	49.32	49.05
#3	53.91	44.23	48.77	52.67	49.16	48.34	48.63
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	58.53	49.08 ✓	48.52	49.56	53.75 ✓	47.43 ✓	50.94
SDev	.32	.19	.01	.12	.17	1.49	.80
%RSD	.5490	.3847	.0204	.2437	.3163	3.138	1.567
#1	58.25	48.87	48.52	49.54	53.61	48.09	51.73
#2	58.47	49.24	48.53	49.46	53.70	48.48	50.13
#3	58.88	49.12	48.51	49.69	53.94	45.73	50.96
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	49.08 ✓	48.53	49.44	482.9	45.09 ✓	1.695	114.3
SDev	.11	.92	1.11	3.6	2.70	.218	.6
%RSD	.2261	1.892	2.250	.7534	5.984	12.89	.5637
#1	48.96	47.59	49.11	487.0	47.91	1.742	113.6
#2	49.09	48.58	48.54	480.1	44.83	1.457	114.6
#3	49.19	49.42	50.69	481.5	42.53	1.886	114.8
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	49.45	-1.367	49.06	48.20
SDev	6.13	.318	.29	.17
%RSD	12.40	23.23	.5904	.3574
#1	42.37	-1.080	49.38	48.03
#2	52.99	-1.708	48.81	48.21
#3	53.00	-1.312	49.00	48.37
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

✓

rr Ag
Same day

Method: NEW Sample Name: 264720 Operator: CRM
Run Time: 05/04/00 13:35:41
Comment:
Mode: CONC Corr. Factor: 50

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	1127.	-1.956	.1960	43.10	.0986	.0418	.3734
SDev	14.	6.856	6.133	.55	.0164	.2110	.1223
%RSD	1.284	350.5	3129.	1.275	16.63	504.8	32.76
#1	1114.	-9.852	3.436	42.75	.1149	-.0629	.3459
#2	1125.	2.502	-6.878	42.81	.0987	-.0964	.2672
#3	1143.	1.480	4.030	43.73	.0821	.2847	.5071
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	S17160.	4.634	2.074	2.157	5126.	3.790	5693.
SDev	29731.	.244	.098	.070	55.	.787	74.
%RSD	173.2	5.264	4.747	3.257	1.068	20.77	1.305
#1	S51490.	4.758	2.072	2.194	5085.	3.559	5639.
#2	S-.5861	4.353	1.976	2.202	5104.	3.144	5663.
#3	S-.5865	4.791	2.173	2.076	5188.	4.666	5778.
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	470.0	.5172	5.199	159.9	-1.052	-.3369	105.1
SDev	5.7	1.057	.918	22.2	1.495	.1479	1.5
%RSD	1.210	204.4	17.66	13.86	142.1	43.89	1.452
#1	465.8	.2684	4.148	156.6	.4585	-.4622	103.5
#2	467.7	-.3933	5.603	183.5	-1.084	-.1738	105.4
#3	476.5	1.676	5.846	139.5	-2.531	-.3748	106.5
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	44.16	-1.355	2.622	16.87
SDev	3.76	.942	.289	.27
%RSD	8.514	69.54	11.03	1.611
#1	47.16	-1.937	2.392	16.64
#2	45.37	-1.860	2.528	16.81
#3	39.94	-.2679	2.947	17.17
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: NEW Sample Name: 264721 Operator: CRM
Run Time: 05/04/00 13:38:42
Comment:
Mode: CONC Corr. Factor: 50

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	1422.	3.125	-.7309	13.86	.0730	1.100	-.0952
SDev	3.	8.467	4.2997	.04	.0012	.280	.2181
%RSD	.2308	270.9	588.2	.3086	1.603	25.43	229.2
#1	1425.	11.81	4.075	13.91	.0731	.8498	-.3447
#2	1419.	2.668	-4.214	13.82	.0741	1.402	.0590
#3	1420.	-5.104	-2.053	13.86	.0718	1.048	.0002
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	S34420.	3.528	1.818	3.453	3345.	4.099	5615.
SDev	29805.	.064	.114	.082	7.	1.797	9.
%RSD	86.60	1.822	6.264	2.367	.1950	43.83	.1558
#1	S51630.	3.490	1.871	3.536	3352.	4.488 -.01L	5624.
#2	S51620.	3.491	1.687	3.451	3340.	2.139	5607.
#3	S-.5709	3.602	1.895	3.373	3341.	5.669	5612.
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	102.9	.0886	2.988	242.9	-2.390	-.1632	87.04
SDev	.2	.5240	.598	9.9	4.636	.2151	.55
%RSD	.2320	591.4	20.00	4.074	194.0	131.8	.6277
#1	103.2	-.4788	3.678	244.6	2.243	-.3649	86.47
#2	102.7	.1904	2.626 -2.6	251.8	-7.029	-.1879	87.09
#3	102.8	.5542	2.661	232.2	-2.383	.0632	87.56
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	22.40	-1.124	3.623	17.72
SDev	12.08	.356	.651	.21
%RSD	53.94	31.69	17.96	1.164
#1	24.45	-1.099	3.558	17.59
#2	33.32	-.7802	3.007	17.95
#3	9.419	-1.491	4.304	17.60
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: NEW Sample Name: 264722 Operator: CRM
Run Time: 05/04/00 13:41:43
Comment:
Mode: CONC Corr. Factor: 50

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	1986.	3.652	.7496	20.39	.0801	.3902	.1689
SDev	2.	2.071	4.555	.05	.0004	.1771	.2234
%RSD	.0862	56.73	607.7	.2238	.5090	45.40	132.3
#1	1985.	5.797	4.782	20.40	.0797	.1910	.0002
#2	1988.	1.664	1.658	20.44	.0805	.5302	.0841
#3	1985.	3.494	-4.191	20.35	.0801	.4493	.4223
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	2082.	2.936	.3654	1.448	2825.	-.4447	535.0
SDev	1.	.148	.0280	.121	4.	1.5658	.3
%RSD	.0660	5.047	7.675	8.353	.1402	352.1	.0506
#1	2083.	2.777	.3591	1.421	2821.	-.4410	534.7
#2	2083.	2.961	.3960	1.344	2829.	1.119	535.1
#3	2080.	3.070	.3410	1.581	2826.	-2.012	535.1
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	58.31	-.1639	3.108	108.6	-1.497	-.1554	87.39
SDev	.07	.1917	.543	20.6	5.849	.2841	1.04
%RSD	.1211	117.0	17.48	18.98	390.8	182.8	1.188
#1	58.23	-.3839	3.683	107.2	1.072	-.4776	86.26
#2	58.36	-.0742	2.604	88.72	-8.191	-.0478	87.60
#3	58.34	-.0335	3.036	129.9	2.628	.0592	88.31
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	16.68	-2.588	4.068	9.852
SDev	5.53	.641	.223	.182
%RSD	33.16	24.76	5.480	1.852
#1	11.08	-2.695	4.299	9.669
#2	22.14	-1.901	3.854	10.03
#3	16.82	-3.169	4.050	9.852
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: NEW Sample Name: 264723 Operator: CRM
Run Time: 05/04/00 13:44:44
Comment:
Mode: CONC Corr. Factor: 50

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	2456.	-2.936	.9454	26.37	.1559	-2.173	.2469
SDev	17.	3.453	.4785	.17	.0003	.250	.3617
%RSD	.6747	117.6	50.61	.6636	.1706	11.51	146.5
#1	2440.	-2.754	.6982	26.24	.1561	-2.214	.1355
#2	2453.	.4215	1.497	26.30	.1556	-1.905	.6511
#3	2473.	-6.476	.6412	26.57	.1559	-2.400	-.0460
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	6276.	7.006	3.971	4.222	8172.	3.695	1394.
SDev	42.	.022	.053	.024	56.	.595	8.
%RSD	.6758	.3072	1.337	.5582	.6880	16.10	.6055
#1	6242.	7.031	3.912	4.231	8127.	3.212	1385.
#2	6263.	6.994	3.984	4.241	8152.	4.360	1396.
#3	6324.	6.992	4.016	4.196	8235.	3.514	1402.
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	228.9	.2373	5.672	156.6	-4.702	-.0247	98.69
SDev	1.7	.3112	.122	22.2	9.004	.2383	2.23
%RSD	.7390	131.1	2.150	14.15	191.5	966.0	2.256
#1	227.9	.3237	5.789	134.9	-6.537	-.2339	96.22
#2	228.0	.4961	5.683	179.2	5.078	.2346	100.6
#3	230.9	-.1079	5.545	155.6	-12.65	-.0747	99.30
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	47.90	-2.414	6.170	18.49
SDev	2.17	.762	.150	.11
%RSD	4.540	31.59	2.435	.5716
#1	48.26	-2.282	6.052	18.43
#2	45.57	-1.726	6.339	18.61
#3	49.88	-3.234	6.118	18.43
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: NEW Sample Name: 264724 Operator: CRM
Run Time: 05/04/00 13:47:46
Comment:
Mode: CONC Corr. Factor: 50

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	5745.	-1.941	-1.072	20.70	.2231	-1.703	.6896
SDev	22.	3.556	5.172	.09	.0048	.089	.6583
%RSD	.3868	183.2	482.6	.4383	2.146	5.241	95.46
#1	5736.	-4.824	-3.458	20.71	.2261	-1.611	1.054
#2	5728.	2.032	-4.620	20.61	.2175	-1.789	1.085
#3	5770.	-3.031	4.863	20.79	.2256	-1.711	-.0703
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	973.1	10.05	5.105	6.342	9569.	.2479	999.3
SDev	3.1	.11	.086	.054	34.	.9346	3.5
%RSD	.3157	1.095	1.678	.8501	.3530	376.9	.3523
#1	973.0	10.16	5.047	6.281	9550.	.3980	995.5
#2	970.1	10.05	5.065	6.360	9550.	-.7526	1000.
#3	976.3	9.941	5.203	6.384	9608.	1.098	1002.
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	214.1	.5971	8.098	381.1	-1.585	.0105	84.99
SDev	1.0	.3375	.636	4.6	11.971	.1732	.37
%RSD	.4768	56.52	7.852	1.210	755.4	1646.	.4299
#1	213.5	.5292	7.828	379.2	9.992	-.0759	84.59
#2	213.5	.2988	7.643	386.4	-.8317	.2099	85.30
#3	215.3	.9634	8.825	377.8	-13.91	-.1024	85.07
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	47.51	-3.837	11.55	27.07
SDev	4.48	.555	.18	.21
%RSD	9.433	14.45	1.554	.7854
#1	51.81	-3.785	11.34	26.95
#2	47.84	-3.311	11.66	27.31
#3	42.87	-4.417	11.64	26.94
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

rr cd

Method: NEW Sample Name: 264725 Operator: CRM
Run Time: 05/04/00 13:50:47
Comment:
Mode: CONC Corr. Factor: 50

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	4127.	-3.328	-.8569	51.41	.2231	.2912	.6090
SDev	60.	5.484	4.0000	.79	.0045	.4086	.1748
%RSD	1.458	164.8	466.8	1.544	2.032	140.3	28.70
#1	4070.	-8.457	3.728	50.70	.2179	-.1207	.4283
#2	4190.	-3.980	-3.635	52.27	.2256	.2981	.6216
#3	4122.	2.454	-2.663	51.27	.2259	.6963	.7772
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	S17180.	5.924	2.678	10.59	6714.	6.398	6384.
SDev	29763.	.096	.138	.20	82.	1.339	84.
%RSD	173.2	1.615	5.171	1.860	1.228	20.92 5.6	1.312
#1	S51550.	5.816	2.520	10.37	6630.	5.493	6292.
#2	S-.5903	5.960	2.734	10.75	6795.	7.936	6456.
#3	S-.5904	5.997	2.780	10.64	6719.	5.766	6404.
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	172.6	.1805	6.786	365.1	-1.929	-.1040	103.1
SDev	2.1	1.065	.870	27.1	7.321	.1132	1.6
%RSD	1.197	590.2	12.82	7.434	379.6	108.9	1.556
#1	170.5	1.401	7.233	340.2	-2.229	-.0331	101.3
#2	174.6	-.5611	7.342	361.2	-9.095	-.0443	104.4
#3	172.7	-.2985	5.784	394.0	5.537	-.2346	103.6
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	45.80	-2.716	7.082	44.40
SDev	2.55	.228	.069	.81
%RSD	5.564	8.393	.9723	1.833
#1	45.19	-2.845	7.067	43.55
#2	43.62	-2.850	7.157	45.18
#3	48.60	-2.453	7.022	44.46
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

rr Cd

Method: NEW Sample Name: ccv Operator: CRM
Run Time: 05/04/00 13:57:15
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	4.925	4.848	4.998	5.346	5.001	4.780	5.069
SDev	.018	.121	.155	.033	.034	.044	.063
%RSD	.3749	2.491	3.105	.6198	.6871	.9264	1.252
#1	4.912	4.714	4.852	5.326	4.961	4.735	5.012
#2	4.916	4.883	5.161	5.384	5.025	4.824	5.057
#3	4.946	4.948	4.982	5.329	5.016	4.781	5.138
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	4.916	4.915	4.910	4.970	5.046	4.790	4.782
SDev	.056	.045	.029	.030	.023	.082	.049
%RSD	1.142	.9069	.5986	.6006	.4614	1.715	1.028
#1	4.861	4.864	4.876	4.951	5.022	4.724	4.735
#2	4.913	4.943	4.927	5.005	5.047	4.765	4.778
#3	4.973	4.939	4.926	4.955	5.069	4.882	4.833
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	4.878	4.961	4.921	48.95	4.892	.4854	49.74
SDev	.031	.088	.078	.05	.026	.0027	.31
%RSD	.6377	1.775	1.582	.1059	.5357	.5650	.6159
#1	4.842	4.860	4.838	48.94	4.906	.4834	49.48
#2	4.898	5.025	4.933	48.90	4.909	.4842	50.08
#3	4.894	4.997	4.992	49.00	4.862	.4885	49.65
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	55.00	5.500	.5500	55.00
Low	4.500	4.500	4.500	45.00	4.500	.4500	45.00

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	4.959	-.1307	4.999	4.943
SDev	.084	.0158	.045	.017
%RSD	1.688	12.09	.8913	.3347
#1	4.889	-.1254	4.948	4.924
#2	4.937	-.1183	5.031	4.953
#3	5.052	-.1485	5.019	4.952
Errors	LC Pass	NOCHECK	LC Pass	LC Pass
High	5.500		5.500	5.500
Low	4.500		4.500	4.500

Method: NEW Sample Name: ccv Operator: CRM
Run Time: 05/04/00 14:03:42
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	4.906	4.865	5.040 ✓	5.318 ✓	4.994	4.797	5.005 ✓
SDev	.045	.119	.122	.083	.076	.074	.065
%RSD	.9221	2.445	2.418	1.559	1.513	1.533	1.291
#1	4.862	4.734	4.909	5.247	4.925	4.743	4.932
#2	4.904	4.895	5.149	5.298	4.983	4.767	5.026
#3	4.952	4.966	5.062	5.409	5.075	4.880	5.056
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	4.858	4.899 ✓	4.897	4.951	5.008 ✓	4.774 ✓	4.764
SDev	.063	.065	.073	.077	.069	.047	.065
%RSD	1.306	1.334	1.483	1.562	1.382	.9812	1.367
#1	4.797	4.840	4.839	4.883	4.955	4.747	4.695
#2	4.854	4.887	4.873	4.935	4.984	4.748	4.774
#3	4.924	4.969	4.978	5.035	5.087	4.828	4.824
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	4.868 ✓	4.939	4.955	48.50	5.077 ✓	.4822 ✓	49.48
SDev	.077	.076	.092	.60	.216	.0029	.61
%RSD	1.587	1.538	1.857	1.228	4.248	.6044	1.224
#1	4.803	4.854	4.897	47.95	4.828	.4826	49.01
#2	4.846	4.964	4.906	48.42	5.201	.4792	49.27
#3	4.953	5.000	5.061	49.13	5.202	.4849	50.16
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	55.00	5.500	.5500	55.00
Low	4.500	4.500	4.500	45.00	4.500	.4500	45.00

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	5.033	-.1097	4.989	4.929
SDev	.061	.0157	.079	.073
%RSD	1.213	14.29	1.585	1.476
#1	4.994	-.1206	4.918	4.862
#2	5.103	-.0917	4.974	4.920
#3	5.001	-.1167	5.074	5.006
Errors	LC Pass	NOCHECK	LC Pass	LC Pass
High	5.500		5.500	5.500
Low	4.500		4.500	4.500

Method: NEW Sample Name: ccb Operator: CRM
Run Time: 05/04/00 14:10:10
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	-.0211	.0001	.0064	.0014	-.0000	.0178	.0070
SDev	.0025	.0743	.0733	.0006	.0000	.0047	.0082
%RSD	11.80	65270.	1149.	39.67	29.76	26.36	116.8
#1	-.0238	.0852	-.0328	.0008	-.0000	.0142	H.0165
#2	-.0189	-.0516	-.0390	.0016	-.0000	.0231	.0023
#3	-.0205	-.0333	.0909	.0019	-.0000	.0160	.0023
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.1000	.1000	.5000	.0200	.0030	.1000	.0100
Low	-.1000	-.1000	-.5000	-.0200	-.0030	-.1000	-.0100

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	.0306	.0002	-.0004	.0011	-.0009	-.0418	.0277
SDev	.0032	.0019	.0035	.0016	.0028	.0353	.0130
%RSD	10.51	865.7	902.8	148.9	313.6	84.36	46.81
#1	.0284	.0017	.0024	.0027	-.0014	-.0783	.0426
#2	.0291	.0009	.0007	.0011	.0021	-.0392	.0190
#3	.0343	-.0020	-.0043	-.0005	-.0034	-.0079	.0215
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.000	.0100	.0200	.0100	.1000	.0800	1.000
Low	-1.000	-.0100	-.0200	-.0100	-.1000	-.0800	-1.000

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	-.0008	-.0019	.0108	.1043	.0051	-.0062	1.033
SDev	.0011	.0110	.0211	.1678	.0793	.0026	.028
%RSD	150.6	571.3	196.0	160.8	1550.	41.71	2.692
#1	-.0015	.0102	H.0351	.2775	.0259	-.0033	1.001
#2	-.0014	-.0112	-.0014	-.0574	.0719	-.0083	1.044
#3	.0006	-.0048	-.0014	.0929	-.0825	-.0069	1.053
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0100	.0200	.0200	5.000	.2000	.0200	5.000
Low	-.0100	-.0200	-.0200	-5.000	-.2000	-.0200	-5.000

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	-.0558	-.0179	.0074	-.0048
SDev	.0307	.0093	.0021	.0002
%RSD	54.90	51.77	28.63	3.256
#1	-.0381	-.0111	.0072	-.0050
#2	-.0912	-.0143	.0096	-.0047
#3	-.0382	-.0285	.0054	-.0048
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	.5000	.5000	.0300	.0200
Low	-.5000	-.5000	-.0300	-.0200

Method: NEW Sample Name: 264726 Operator: CRM
Run Time: 05/04/00 14:23:18
Comment:
Mode: CONC Corr. Factor: 50

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	4111.	-3.486	-5.753	74.49	.2164	-2.759	.2521
SDev	51.	12.235	4.523	.82	.0121	.127	.4839
%RSD	1.241	351.0	78.62	1.102	5.574	4.596	191.9
#1	4052.	10.29	-10.09	73.54	.2132	-2.786	.7327
#2	4137.	-13.09	-1.062	75.00	.2062	-2.870	-.2350
#3	4143.	-7.658	-6.110	74.93	.2297	-2.621	.2587
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	S-.6011	5.515	4.090	6.641	9275.	1.183	2199.
SDev	.0008	.202	.144	.134	107.	.785	30.
%RSD	.1280	3.668	3.525	2.024	1.156	66.33	1.365
#1	S-.6019	5.484	4.117	6.672	9156.	1.088	2167.
#2	S-.6004	5.330	3.935	6.494	9306.	.4502	2203.
#3	S-.6009	5.731	4.219	6.757	9364.	2.011	2227.
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	999.9	-.0553	5.674	227.6	-.2766	-.1462	90.83
SDev	11.5	.5351	.441	32.6	5.5118	.0282	1.86
%RSD	1.146	968.0	7.771	14.34	1992.	19.28	2.049
#1	987.0	.4710	5.213	254.5	5.827	-.1747	88.95
#2	1004.	-.0380	6.092	191.3	-4.891	-.1183	90.87
#3	1009.	-.5988	5.717	237.0	-1.765	-.1457	92.68
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	79.68	-.5194	4.918	35.38
SDev	2.55	.4773	.256	.35
%RSD	3.196	91.90	5.209	1.002
#1	76.91	-.4663	5.192	35.02
#2	80.22	-1.021	4.684	35.73
#3	81.92	-.0709	4.879	35.38
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

cc Bq

Method: NEW Sample Name: ccv Operator: CRM
Run Time: 05/04/00 14:54:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	5.140	4.901	4.760	H5.770	5.077	5.006	5.017
SDev	.051	.091	.095	.085	.066	.065	.063
%RSD	.9984	1.865	2.003	1.479	1.303	1.299	1.249
#1	5.082	4.892	4.665	H5.677	5.003	4.937	4.945
#2	5.157	4.815	4.757	H5.789	5.095	5.015	5.057
#3	5.181	4.997	4.856	H5.844	5.132	5.066	5.050
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	4.628	4.814	4.728	5.295	4.984	L4.357	L4.499
SDev	.045	.056	.043	.074	.045	.018	.045
%RSD	.9708	1.170	.9115	1.404	.9072	.4142	.9903
#1	4.578	4.750	4.682	5.212	4.936	L4.366	L4.453
#2	4.638	4.838	4.737	5.315	4.989	L4.336	4.504
#3	4.666	4.855	4.766	5.357	5.026	L4.368	4.541
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Low
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	4.831	4.855	4.761	51.49	4.792	.5036	52.75
SDev	.051	.061	.046	.08	.196	.0044	.76
%RSD	1.054	1.262	.9690	.1623	4.089	.8693	1.449
#1	4.777	4.786	4.714	51.41	4.904	.4990	51.93
#2	4.838	4.880	4.765	51.48	4.566	.5041	52.88
#3	4.878	4.901	4.806	51.58	4.906	.5078	53.44
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	55.00	5.500	.5500	55.00
Low	4.500	4.500	4.500	45.00	4.500	.4500	45.00

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	4.608	-.1151	5.049	4.909
SDev	.143	.0048	.080	.056
%RSD	3.100	4.181	1.589	1.131
#1	4.749	-.1096	4.961	4.849
#2	4.612	-.1187	5.069	4.922
#3	L4.463	-.1169	5.118	4.958
Errors	LC Pass	NOCHECK	LC Pass	LC Pass
High	5.500		5.500	5.500
Low	4.500		4.500	4.500

Method: NEW Sample Name: ccb Operator: CRM
Run Time: 05/04/00 15:00:51
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	-.0071	.0518	.0330	.0014	.0001	.0171	-.0021
SDev	.0116	.1097	.0574	.0010	.0001	.0036	.0032
%RSD	163.1	211.7	173.7	73.30	207.9	21.29	154.5
#1	-.0188	H.1584	.0167	.0004	-.0000	.0159	.0008
#2	.0043	.0579	.0969	.0013	-.0000	.0212	-.0014
#3	-.0067	-.0608	-.0144	.0024	.0002	.0142	-.0056
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.1000	.1000	.5000	.0200	.0030	.1000	.0100
Low	-.1000	-.1000	-.5000	-.0200	-.0030	-.1000	-.0100

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	.0294	.0024	-.0020	.0016	.0023	-.0209	.0268
SDev	.0155	.0019	.0018	.0033	.0032	.0227	.0195
%RSD	52.68	79.96	91.04	207.0	138.9	108.3	72.94
#1	.0192	.0046	-.0008	.0042	-.0014	-.0077	.0490
#2	.0218	.0010	-.0012	.0027	.0041	-.0471	.0191
#3	.0472	.0017	-.0041	-.0021	.0041	-.0080	.0123
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.000	.0100	.0200	.0100	.1000	.0800	1.000
Low	-1.000	-.0100	-.0200	-.0100	-.1000	-.0800	-1.000

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	-.0006	-.0080	.0122	.0699	-.0259	-.0048	.9145
SDev	.0024	.0051	.0022	.2556	.1029	.0012	.0491
%RSD	399.8	64.09	18.01	365.6	397.1	25.99	5.375
#1	-.0034	-.0136	.0110	.3339	.0255	-.0041	.8690
#2	.0005	-.0067	.0147	.0522	.0411	-.0040	.9079
#3	.0011	-.0036	.0108	-.1763	-.1443	-.0062	.9667
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0100	.0200	.0200	5.000	.2000	.0200	5.000
Low	-.0100	-.0200	-.0200	-5.000	-.2000	-.0200	-5.000

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	.0326	.0021	.0015	-.0049
SDev	.0997	.0174	.0066	.0001
%RSD	305.6	823.7	442.4	1.040
#1	-.0204	.0032	.0056	-.0048
#2	-.0293	.0190	.0051	-.0049
#3	.1476	-.0158	-.0062	-.0049
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	.5000	.5000	.0300	.0200
Low	-.5000	-.5000	-.0300	-.0200

Method: NEW Sample Name: ccv Operator: CRM
Run Time: 05/04/00 21:48:21
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	5.046	L4.444	L4.322	5.276	L4.267	L4.339	L4.395
SDev	.060	.098	.033	.098	.063	.101	.034
%RSD	1.188	2.216	.7685	1.856	1.485	2.317	.7692
#1	4.993	L4.368	L4.359	5.176	L4.200	L4.239	L4.363
#2	5.034	L4.409	L4.295	5.278	L4.273	L4.338	L4.391
#3	5.111	4.555	L4.312	5.372	L4.326	L4.440	L4.430
Errors	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	L4.323	L4.260	L4.124	4.824	4.694	L3.867	L4.213
SDev	.049	.054	.051	.081	.061	.030	.068
%RSD	1.139	1.277	1.228	1.686	1.305	.7793	1.617
#1	L4.270	L4.202	L4.079	4.739	4.632	L3.832	L4.136
#2	L4.332	L4.270	L4.114	4.832	4.695	L3.879	L4.265
#3	L4.367	L4.310	L4.179	4.901	4.755	L3.888	L4.237
Errors	LC Low	LC Low	LC Low	LC Pass	LC Pass	LC Low	LC Low
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	L4.305	L4.312	L4.070	51.28	L4.276	.4814	53.56
SDev	.059	.073	.041	.63	.115	.0031	.99
%RSD	1.366	1.693	1.009	1.234	2.699	.6432	1.849
#1	L4.245	L4.232	L4.040	50.59	L4.195	.4835	52.54
#2	L4.307	L4.328	L4.052	51.83	L4.408	.4779	53.64
#3	L4.363	L4.375	L4.116	51.41	L4.226	.4829	54.51
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Pass
High	5.500	5.500	5.500	55.00	5.500	.5500	55.00
Low	4.500	4.500	4.500	45.00	4.500	.4500	45.00

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	L3.996	-.1232	L4.485	L4.317
SDev	.077	.0362	.064	.056
%RSD	1.916	29.38	1.420	1.297
#1	L3.924	-.0877	L4.418	L4.256
#2	L4.077	-.1601	L4.493	L4.329
#3	L3.988	-.1217	4.545	L4.366
Errors	LC Low	NOCHECK	LC Low	LC Low
High	5.500		5.500	5.500
Low	4.500		4.500	4.500

Method: NEW Sample Name: ccb Operator: CRM
Run Time: 05/04/00 21:54:49
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	-.0252	.0788	-.0421	.0003	-.0000	.0135	.0045
SDev	.0080	.0515	.0172	.0002	.0001	.0047	.0015
%RSD	31.97	65.35	40.95	57.71	213.0	35.02	34.33
#1	-.0175	.0994	-.0248	.0001	-.0001	.0093	.0051
#2	-.0244	H.1168	-.0421	.0004	.0000	.0125	.0056
#3	-.0336	.0202	-.0593	.0004	.0000	.0186	.0027
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.1000	.1000	.5000	.0200	.0030	.1000	.0100
Low	-.1000	-.1000	-.5000	-.0200	-.0030	-.1000	-.0100

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	.0111	-.0005	-.0030	.0025	.0003	.0000	.0061
SDev	.0027	.0019	.0013	.0000	.0024	.0078	.0272
%RSD	24.29	400.1	45.25	.2687	705.8	16250.	444.7
#1	.0090	-.0019	-.0045	.0025	.0012	-.0077	-.0249
#2	.0101	-.0012	-.0021	.0025	.0023	.0078	.0260
#3	.0141	.0016	-.0022	.0025	-.0024	.0000	.0173
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.000	.0100	.0200	.0100	.1000	.0800	1.000
Low	-1.000	-.0100	-.0200	-.0100	-.1000	-.0800	-1.000

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	-.0011	-.0017	.0084	-.0376	-.0047	-.0019 ✓	.5390
SDev	.0001	.0156	.0094	.1108	.0977	.0031	.0411
%RSD	11.66	903.0	111.8	294.9	2058.	163.0	7.624
#1	-.0012	-.0102	.0081	-.0730	.1081	.0017	.4930
#2	-.0011	-.0113	-.0008	-.1263	-.0614	-.0033	.5517
#3	-.0010	.0162	.0180	.0866	-.0609	-.0040	.5722
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0100	.0200	.0200	5.000	.2000	.0200	5.000
Low	-.0100	-.0200	-.0200	-5.000	-.2000	-.0200	-5.000

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	.0688	-.0200	-.0039	-.0034
SDev	.0334	.0167	.0018	.0019
%RSD	48.49	83.28	46.90	56.63
#1	.0303	-.0206	-.0018	-.0012
#2	.0881	-.0364	-.0053	-.0045
#3	.0881	-.0031	-.0046	-.0046
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	.5000	.5000	.0300	.0200
Low	-.5000	-.5000	-.0300	-.0200

Method: NEW Sample Name: lcs 1230 Operator: CRM
Run Time: 05/04/00 21:57:50
Comment:
Mode: CONC Corr. Factor: 1

TV=10

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	.9611	.8551	L.7253	H10.29	L.7857	.8329	L.7955
SDev	.0038	.0481	.0723	.11	.0069	.0106	.0077
%RSD	.3938	5.629	9.968	1.025	.8726	1.268	.9699
#1	.9567	.8086	.8003	H10.18	L.7790	.8246	L.7935
#2	.9629	.8518	L.6560	H10.39	L.7927	.8448	.8040
#3	.9636	.9047	L.7195	H10.28	L.7855	.8293	L.7890
Errors	LC Pass	LC Pass	LC Low	LC High	LC Low	LC Pass	LC Low
High	1.200	1.200	1.200	1.200	1.200	1.200	1.200
Low	.8000	.8000	.8000	.8000	.8000	.8000	.8000

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	L7.748	L.7820	L.7483	.9231	.9253	L.6658	L.7521
SDev	.062	.0067	.0013	.0118	.0050	.0236	.0129
%RSD	.8060	.8628	.1713	1.280	.5461	3.546	1.708
#1	L7.680	L.7763	L.7474	.9118	.9215	L.6400	L.7403
#2	L7.802	L.7895	L.7478	.9354	.9310	L.6709	L.7501
#3	L7.763	L.7804	L.7498	.9222	.9234	L.6864	L.7658
Errors	LC Low	LC Low	LC Low	LC Pass	LC Pass	LC Low	LC Low
High	12.00	1.200	1.200	1.200	1.200	1.200	1.200
Low	8.000	.8000	.8000	.8000	.8000	.8000	.8000

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	.8008	.7860	L.7400	9.445	L.7797	.9282	10.56
SDev	.0061	.0114	.0112	.081	.0695	.0108	.10
%RSD	.7621	1.448	1.514	.8594	8.918	1.159	.9563
#1	L.7941	.7803	L.7272	9.502	.8596	.9170	10.46
#2	.8060	.7991	L.7482	9.480	L.7329	.9385	10.66
#3	.8025	.7786	L.7447	9.352	L.7466	.9292	10.54
Errors	LC Pass	NOCHECK	LC Low	LC Pass	LC Low	LC Pass	LC Pass
High	1.200		1.200	12.00	1.200	1.200	12.00
Low	.8000		.8000	8.000	.8000	.8000	8.000

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	.8395	-.0241	.8325	L.7783
SDev	.0718	.0154	.0104	.0077
%RSD	8.555	63.84	1.255	.9851
#1	.9190	-.0204	.8210	L.7694
#2	L.7792	-.0409	.8413	L.7827
#3	.8203	-.0109	.8351	L.7827
Errors	LC Pass	NOCHECK	LC Pass	LC Low
High	1.200		1.200	1.800
Low	.8000		.8000	.8000

~~As, Cd, Cr, Pb, Mn,~~

~~Ni, Se~~

Report Ag

Method: NEW Sample Name: ccv Operator: CRM
Run Time: 05/04/00 22:07:18
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	5.061	L4.400	L4.232	5.304	L4.286	L4.365	L4.410
SDev	.044	.247	.107	.048	.033	.022	.031
%RSD	.8683	5.620	2.517	.8994	.7764	.5002	.7091
#1	5.017	L4.315	L4.128	5.249	L4.248	L4.340	L4.376
#2	5.062	L4.206	L4.341	5.330	L4.305	L4.377	L4.420
#3	5.105	4.678	L4.225	5.333	L4.306	L4.378	L4.436
Errors	LC Pass	LC Low	LC Low	LC Pass	LC Low	LC Low	LC Low
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	L4.322	L4.270	L4.137	4.841	4.689	L3.875	L4.221
SDev	.037	.039	.020	.037	.037	.016	.027
%RSD	.8624	.9101	.4775	.7733	.7797	.4172	.6498
#1	L4.279	L4.226	L4.115	4.798	4.647	L3.879	L4.190
#2	L4.337	L4.293	L4.143	4.863	4.712	L3.857	L4.229
#3	L4.349	L4.293	L4.153	4.863	4.709	L3.888	L4.243
Errors	LC Low	LC Low	LC Low	LC Pass	LC Pass	LC Low	LC Low
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	L4.314	L4.328	L4.059	51.02	L4.248	.4805	53.51
SDev	.037	.042	.016	.71	.225	.0004	.35
%RSD	.8488	.9707	.4045	1.389	5.291	.0820	.6509
#1	L4.272	L4.280	L4.040	50.26	L4.111	.4807	53.11
#2	L4.333	L4.351	L4.066	51.16	L4.126	.4800	53.76
#3	L4.336	L4.354	L4.071	51.65	4.508	.4807	53.66
Errors	LC Low	LC Low	LC Low	LC Pass	LC Low	LC Pass	LC Pass
High	5.500	5.500	5.500	55.00	5.500	.5500	55.00
Low	4.500	4.500	4.500	45.00	4.500	.4500	45.00

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	L4.022	-.1204	L4.493	L4.331
SDev	.069	.0182	.037	.022
%RSD	1.706	15.15	.8217	.5139
#1	L3.942	-.1190	L4.451	L4.306
#2	L4.061	-.1029	4.516	L4.342
#3	L4.061	-.1393	4.513	L4.346
Errors	LC Low	NOCHECK	LC Low	LC Low
High	5.500		5.500	5.500
Low	4.500		4.500	4.500

Method: NEW Sample Name: ccb Operator: CRM
Run Time: 05/04/00 22:16:47
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	.0175	H.1049	-.0424	.0010	-.0000	.0109	.0056
SDev	.0228	.0995	.0414	.0008	.0001	.0000	.0011
%RSD	130.4	94.87	97.50	79.38	166.0	.1777	20.00
#1	-.0042	H.1865	-.0884	.0004	-.0001	.0108	.0069
#2	.0155	H.1342	-.0309	.0007	-.0000	.0108	.0053
#3	.0412	-.0060	-.0081	.0018	.0000	.0109	.0047
Errors	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.1000	.1000	.5000	.0200	.0030	.1000	.0100
Low	-.1000	-.1000	-.5000	-.0200	-.0030	-.1000	-.0100

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	.0122	-.0002	.0002	.0000	.0038	-.0360	.0007
SDev	.0099	.0056	.0039	.0084	.0025	.0311	.0521
%RSD	81.18	2274.	1820.	394500.	66.89	86.58	6998.
#1	.0015	-.0053	-.0030	-.0093	.0009	-.0693	-.0500
#2	.0142	-.0012	-.0010	.0025	.0051	-.0308	-.0018
#3	.0210	.0058	.0046	.0069	.0054	-.0077	.0540
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.000	.0100	.0200	.0100	.1000	.0800	1.000
Low	-1.000	-.0100	-.0200	-.0100	-.1000	-.0800	-1.000

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	.0001	-.0013	.0033	-.0543	.0235	.0007	.3841
SDev	.0013	.0082	.0031	1.0541	.0140	.0056	.0567
%RSD	1597.	649.3	94.47	1943.	59.56	776.8	14.75
#1	-.0013	.0033	-.0003	-1.187	.0095	-.0055	.3552
#2	.0004	-.0108	.0052	.1273	.0375	.0024	.3477
#3	.0012	.0037	.0050	.8973	.0236	.0052	.4494
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0100	.0200	.0200	5.000	.2000	.0200	5.000
Low	-.0100	-.0200	-.0200	-5.000	-.2000	-.0200	-5.000

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	.0855	-.0084	-.0008	-.0000
SDev	.1345	.0119	.0044	.0019
%RSD	157.3	140.7	581.1	6440.
#1	.0384	.0032	-.0043	-.0011
#2	-.0191	-.0079	.0041	-.0011
#3	.2372	-.0206	-.0021	.0021
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	.5000	.5000	.0300	.0200
Low	-.5000	-.5000	-.0300	-.0200

Method: NEW Sample Name: crd1 Operator: CRM
Run Time: 05/04/00 22:19:48
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	-.0117	.2153	.0096	.0166	.0192	.0076	.0231
SDev	.0621	.0678	.0355	.0012	.0002	.0031	.0024
%RSD	530.1	31.47	369.5	7.291	1.052	41.00	10.31
#1	-.0038	.1947	.0211	.0168	.0190	.0045	.0206
#2	.0461	.2910	.0379	.0176	.0192	.0076	.0235
#3	-.0775	L.1602	-.0302	.0153	.0193	.0108	H.0253
Errors	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	LC Pass
High		.3000			.0250		.0250
Low		.1800			.0150		.0150

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	.0774	.0392	.1739	.1077	.0092	-.0037	.0368
SDev	.0075	.0015	.0029	.0045	.0066	.0353	.0194
%RSD	9.703	3.741	1.681	4.168	71.75	948.3	52.82
#1	.0794	.0397	.1706	.1087	.0109	-.0115	.0431
#2	.0836	.0404	.1759	.1117	.0147	.0348	.0522
#3	.0690	.0376	.1753	.1028	.0019	-.0344	.0150
Errors	NOCHECK	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High		.0500	.2500	.1250			
Low		.0300	.1500	.0750			

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	.0556	-.0049	.1405	-.1941	-.0372	.0337	.4073
SDev	.0009	.0099	.0035	.6214	.0939	.0104	.0344
%RSD	1.717	204.0	2.482	320.2	252.6	30.92	8.436
#1	.0550	.0043	.1441	-.0417	-.1453	.0303	.3967
#2	.0551	-.0035	.1372	.3370	.0099	.0453	.4458
#3	.0567	-.0154	.1402	-.8775	.0238	L.0253	.3796
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK
High	.0750		.2000			.0500	
Low	.0450		.1200			.0300	

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	.1026	-.0074	.1946	.0725
SDev	.0580	.0127	.0056	.0066
%RSD	56.56	172.3	2.899	9.110
#1	.0968	.0048	.1888	.0725
#2	.1633	-.0063	.1950	.0792
#3	.0477	-.0206	.2000	.0660
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass
High			.2500	.1000
Low			.1500	.0600

Method: NEW Sample Name: inta1 Operator: CRM
Run Time: 05/04/00 22:22:50
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	12.31	-.0235	-.0045	.0189	-.0001	-.0320	.0008
SDev	.04	.0609	.0445	.0002	.0001	.0043	.0054
%RSD	.3653	258.7	983.6	1.049	45.10	13.51	645.1
#1	12.29	-.0493	-.0330	.0187	-.0002	-.0360	-.0028
#2	12.27	-.0673	-.0273	.0191	-.0001	-.0274	.0070
#3	12.36	.0460	.0468	.0190	-.0001	-.0324	-.0017
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	14.40						
Low	9.600						

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	51.56	-.0023	-.0015	.0076	47.34	-.0394	26.13
SDev	.22	.0015	.0031	.0046	.26	.0236	.09
%RSD	.4282	63.48	208.3	60.37	.5484	59.87	.3373
#1	51.36	-.0039	-.0051	.0026	47.07	-.0651	26.04
#2	51.53	-.0018	.0003	.0086	47.38	-.0341	26.14
#3	51.80	-.0011	.0003	.0117	47.58	-.0189	26.22
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	LC Pass
High	72.00				60.00		36.00
Low	48.00				40.00		24.00

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	.0076	-.0050	-.0045	-.1416	-.0165	-.0052	11.56
SDev	.0003	.0095	.0060	.4404	.0456	.0052	.07
%RSD	3.618	192.1	133.0	311.1	276.0	99.91	.5914
#1	.0079	-.0066	-.0011	-.6049	-.0686	-.0095	11.58
#2	.0073	-.0136	-.0114	-.0915	.0022	.0005	11.48
#3	.0075	.0053	-.0010	.2717	.0168	-.0066	11.62
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High							12.00
Low							8.000

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	.4518	-.0191	-.0236	-.0009
SDev	.1319	.0286	.0088	.0019
%RSD	29.20	149.4	37.21	211.5
#1	.5980	-.0508	-.0338	-.0021
#2	.3416	.0046	-.0184	-.0019
#3	.4158	-.0112	-.0187	.0013
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: NEW Sample Name: intb1 Operator: CRM
Run Time: 05/04/00 22:25:51
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	12.01	8.066	L4.706	3.159	.8522	4.087	2.654
SDev	.09	.110	.036	.028	.0034	.039	.020
%RSD	.7640	1.367	.7749	.8813	.3943	.9641	.7660
#1	11.91	L7.939	L4.736	3.134	.8483	4.043	2.633
#2	12.04	8.130	L4.665	3.155	.8543	4.100	2.655
#3	12.09	8.130	L4.717	3.189	.8540	4.118	2.674
Errors	LC Pass	LC Pass	LC Low	NOCHECK	NOCHECK	LC Pass	LC Pass
High	14.40	12.00	12.00			6.000	3.600
Low	9.600	8.000	8.000			4.000	2.400

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	50.29	2.525	2.531	2.937	44.85	L7.600	25.29
SDev	.24	.010	.007	.024	.10	.072	.13
%RSD	.4695	.3923	.2908	.8159	.2126	.9431	.5104
#1	50.04	2.514	2.526	2.916	44.74	L7.520	25.16
#2	50.52	2.533	2.540	2.932	44.92	L7.659	25.42
#3	50.30	2.526	2.528	2.963	44.89	L7.620	25.29
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	72.00	3.600	3.600	3.600	60.00	12.00	36.00
Low	48.00	2.400	2.400	2.400	40.00	8.000	24.00

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	1.728	2.512	2.422	205.6	L3.838	2.819	11.07
SDev	.009	.037	.030	1.7	.079	.015	.05
%RSD	.5145	1.466	1.239	.8081	2.049	.5190	.4519
#1	1.717	2.469	L2.398	204.1	L3.823	2.833	11.02
#2	1.732	2.537	2.455	205.2	L3.768	2.819	11.08
#3	1.733	2.528	2.413	207.4	L3.923	2.804	11.12
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	NOCHECK	LC Pass
High	2.400	3.600	3.600	240.0	6.000		12.00
Low	1.600	2.400	2.400	160.0	4.000		8.000

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	8.435	2.585	L2.361	2.615
SDev	.230	.007	.013	.014
%RSD	2.723	.2622	.5491	.5494
#1	8.266	2.589	L2.354	2.598
#2	8.697	2.588	L2.353	2.621
#3	8.342	2.577	L2.376	2.625
Errors	LC Pass	NOCHECK	LC Low	LC Pass
High	12.00		3.600	3.600
Low	8.000		2.400	2.400

Method: NEW Standard: STD1-Blank
Run Time: 05/08/00 08:50:03

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	.0088	-.0013	-.0009	-.0006	.0014	.0007	.0000
SDev	.0041	.0017	.0010	.0011	.0000	.0001	.0003
%RSD	46.13	131.5	105.7	185.6	.0000	17.32	.0000
#1	.0052	-.0026	-.0014	-.0008	.0014	.0006	.0004
#2	.0132	-.0018	.0002	.0006	.0014	.0008	-.0003
#3	.0080	.0006	-.0016	-.0016	.0014	.0006	-.0002

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	.0420	.0004	.0002	.0013	-.0001	.0008	.0019
SDev	.0097	.0002	.0004	.0004	.0002	.0002	.0016
%RSD	23.10	50.00	200.0	32.87	173.2	25.00	84.25
#1	.0516	.0004	.0006	.0014	-.0004	.0006	.0038
#2	.0422	.0006	.0002	.0016	.0000	.0008	.0008
#3	.0322	.0002	-.0002	.0008	.0000	.0010	.0012

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	.0000	.0003	-.0013	.1782	-.0001	.0029	.5373
SDev	.0000	.0005	.0030	.0264	.0002	.0003	.0080
%RSD	.0000	173.2	237.0	14.82	173.2	10.66	1.492
#1	.0000	.0000	.0022	.1790	.0000	.0026	.5314
#2	.0000	.0008	-.0030	.2042	.0000	.0032	.5464
#3	.0000	.0000	-.0030	.1514	-.0004	.0028	.5340

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	.0005	-.0011	.0008	.0003
SDev	.0013	.0022	.0007	.0003
%RSD	285.4	207.4	90.14	114.6
#1	-.0010	-.0034	.0000	.0002
#2	.0008	.0010	.0014	.0006
#3	.0016	-.0008	.0010	.0000

Method: NEW Standard: ST1 (575)
Run Time: 05/08/00 08:52:25

Elem	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288	Cr2677
Avge	.2200	.3215	19.46	12.38	2.224	.5227	2.592
SDev	.0012	.0060	.11	.07	.019	.0047	.011
%RSD	.5530	1.881	.5687	.5728	.8425	.9074	.4302
#1	.2208	.3148	19.34	12.30	2.202	.5176	2.579
#2	.2186	.3230	19.54	12.43	2.233	.5234	2.599
#3	.2206	.3266	19.52	12.42	2.235	.5270	2.597

Elem	Co2286	Cu3247	Pb2203	Mn2576	Mo2020	Ni2316	Se1960
Avge	.9751	1.298	.2194	1.055	.7154	3.265	.1254
SDev	.0056	.007	.0013	.006	.0075	.025	.0030
%RSD	.5766	.5766	.5693	.5916	1.045	.7603	2.360
#1	.9686	1.290	.2184	1.047	.7074	3.241	.1240
#2	.9778	1.304	.2208	1.058	.7166	3.264	.1234

#1	9.971	10.05	9.944	-.5282	9.900	.0453	1.076
#2	9.967	9.968	9.880	.8164	10.15	.0314	1.100
#3	9.988	9.949	9.952	.2692	10.29	.0336	1.061
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK
High	11.00		11.00		11.00		
Low	9.000		9.000		9.000		

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	9.862	-.2580	9.982	9.851
SDev	.249	.0136	.025	.018
%RSD	2.522	5.252	.2493	.1809
#1	9.606	-.2594	10.00	9.856
#2	10.10	-.2439	9.954	9.832
#3	9.878	-.2709	9.989	9.866
Errors	LC Pass	NOCHECK	LC Pass	LC Pass
High	11.00		11.00	11.00
Low	9.000		9.000	9.000

Analysis Report 05/08/00 09:51:56 AM

Method: NEW Sample Name: ccv Operator: CRM
Run Time: 05/08/00 09:48:59
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	5.178	4.884	4.952	5.270	4.933	4.805	4.957
SDev	.019	.165	.047	.082	.074	.081	.052
%RSD	.3580	3.383	.9562	1.556	1.502	1.685	1.054
#1	5.160	4.769	4.903	5.180	4.850	4.712	4.897
#2	5.197	4.809	4.958	5.292	4.957	4.844	4.992
#3	5.176	5.073	4.997	5.339	4.993	4.859	4.983
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	5.123	4.948	4.942	4.861	5.297	4.934	4.998
SDev	.006	.068	.076	.074	.050	.061	.011
%RSD	.1114	1.367	1.540	1.525	.9408	1.229	.2136
#1	5.130	4.871	4.857	4.780	5.352	4.872	5.009
#2	5.121	4.975	4.965	4.879	5.283	4.937	4.988
#3	5.119	4.998	5.004	4.925	5.255	4.993	4.997
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	4.917	4.973	5.007	48.85	4.855	.4852	50.49
SDev	.066	.078	.084	.50	.141	.0045	.63
%RSD	1.344	1.575	1.677	1.018	2.904	.9327	1.240
#1	4.843	4.883	4.923	48.33	4.854	.4803	49.78
#2	4.939	5.024	5.006	49.31	4.715	.4862	50.75
#3	4.969	5.012	5.091	48.92	4.997	.4892	50.95
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	55.00	5.500	.5500	55.00
Low	4.500	4.500	4.500	45.00	4.500	.4500	45.00

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	4.791	-.1097	4.984	4.922
SDev	.318	.0272	.095	.066
%RSD	6.631	24.82	1.911	1.350
#1	5.087	-.0960	4.879	4.846
#2	4.830	-.0921	5.007	4.952
#3	L4.456	-.1411	5.065	4.969
Errors	LC Pass	NOCHECK	LC Pass	LC Pass
High	5.500		5.500	5.500
Low	4.500		4.500	4.500

Method: NEW Sample Name: ccb Operator: CRM
Run Time: 05/08/00 09:55:26
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	-.0179	.0528	.0261	.0022	.0006	.0133	-.0032
SDev	.0058	.0052	.0001	.0003	.0001	.0010	.0057
%RSD	32.24	9.807	.1982	13.23	24.43	7.190	178.1
#1	-.0114	.0468	.0261	.0019	.0007	.0128	-.0044
#2	-.0223	.0558	.0262	.0025	.0006	.0127	.0030
#3	-.0199	.0557	.0261	.0021	.0004	.0144	-.0082
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.1000	.1000	.5000	.0200	.0030	.1000	.0100
Low	-.1000	-.1000	-.5000	-.0200	-.0030	-.1000	-.0100

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	-.0049	.0017	.0022	-.0047	.0013	.0054	.0060
SDev	.0024	.0011	.0092	.0009	.0010	.0404	.0204
%RSD	49.12	66.03	409.3	19.24	79.46	753.0	338.0
#1	-.0024	.0029	.0129	-.0052	.0025	.0396	.0168
#2	-.0051	.0014	-.0025	-.0036	.0008	-.0392	.0188
#3	-.0072	.0007	-.0036	-.0052	.0006	.0157	-.0175
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.000	.0100	.0200	.0100	.1000	.0800	1.000
Low	-1.000	-.0100	-.0200	-.0100	-.1000	-.0800	-1.000

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	-.0005	-.0028	-.0018	.2502	.1034	.0036	1.191
SDev	.0001	.0073	.0153	.4300	.0862	.0042	.015
%RSD	24.14	262.1	867.4	171.9	83.33	115.2	1.229
#1	-.0005	.0007	-.0190	.2471	.1787	.0012	1.179
#2	-.0005	-.0111	.0102	.6817	.1221	.0085	1.207
#3	-.0003	.0021	.0035	-.1782	.0094	.0012	1.187
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0100	.0200	.0200	5.000	.2000	.0200	5.000
Low	-.0100	-.0200	-.0200	-5.000	-.2000	-.0200	-5.000

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	-.1473	.0237	.0087	-.0046
SDev	.0435	.0132	.0040	.0001
%RSD	29.52	55.76	46.17	3.014
#1	-.1721	.0085	.0123	-.0044
#2	-.1727	.0321	.0096	-.0046
#3	-.0971	.0306	.0043	-.0046
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	.5000	.5000	.0300	.0200
Low	-.5000	-.5000	-.0300	-.0200

Method: NEW Sample Name: crdl 1 Operator: CRM
Run Time: 05/08/00 10:01:52
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	.0097	.2905	.0869	.0172	.0222	.0171	.0237
SDev	.0161	.1076	.0294	.0000	.0001	.0010	.0045
%RSD	165.9	37.06	33.76	.0007	.6165	5.849	18.94
#1	.0274	.1965	.0979	.0172	.0222	.0176	.0234
#2	-.0042	.2671	.0537	.0172	.0221	.0177	H.0283
#3	.0059	H.4079	.1092	.0172	.0223	.0159	.0194
Errors	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK	LC Pass
High		.3000			.0250		.0250
Low		.1800			.0150		.0150

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	.0827	.0453	.2105	.1020	.0173	.0074	.0336
SDev	.0023	.0008	.0010	.0009	.0043	.0355	.0182
%RSD	2.758	1.788	.4600	.8877	25.07	479.5	54.16
#1	.0841	.0463	.2106	.1026	.0222	-.0267	.0335
#2	.0839	.0449	.2114	.1026	.0158	.0440	.0155
#3	.0800	.0449	.2095	.1010	.0140	.0049	.0519
Errors	NOCHECK	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High		.0500	.2500	.1250			
Low		.0300	.1500	.0750			

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	.0671	.0049	.1849	.1366	.0196	.0412	1.519
SDev	.0010	.0066	.0111	.0551	.0917	.0043	.023
%RSD	1.503	133.6	5.980	40.34	468.5	10.36	1.482
#1	.0680	-.0015	.1772	.1814	.1088	.0429	1.493
#2	.0660	.0117	.1976	.1532	.0244	.0443	1.529
#3	.0673	.0047	.1800	.0751	-.0745	.0363	1.534
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK
High	.0750		.2000			.0500	
Low	.0450		.1200			.0300	

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	.0285	.0085	.2165	.0845
SDev	.0780	.0205	.0094	.0021
%RSD	273.5	241.8	4.345	2.514
#1	.0908	.0085	.2071	.0833
#2	.0536	-.0120	.2164	.0832
#3	-.0589	.0290	.2259	.0869
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass
High			.2500	.1000
Low			.1500	.0600

Method: NEW Sample Name: inta1 Operator: CRM
Run Time: 05/08/00 10:04:52
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	12.22	-.0001	-.0000	.0208	.0003	-.0093	-.0054
SDev	.06	.0723	.0348	.0011	.0001	.0047	.0045
%RSD	.4602	55700.	109100.	5.233	46.66	50.67	83.30
#1	12.21	.0180	.0391	.0198	.0005	-.0099	-.0101
#2	12.28	-.0797	-.0119	.0206	.0003	-.0043	-.0013
#3	12.17	.0614	-.0274	.0219	.0002	-.0136	-.0046
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	14.40						
Low	9.600						

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	59.84	-.0014	.0003	-.0008	51.23	-.0264	30.27
SDev	.28	.0014	.0029	.0008	.28	.0270	.19
%RSD	.4603	102.0	1146.	103.2	.5539	102.3	.6155
#1	59.78	-.0028	-.0029	.0001	50.99	-.0421	30.28
#2	60.14	-.0014	.0010	-.0012	51.54	.0048	30.45
#3	59.59	.0000	.0027	-.0013	51.16	-.0418	30.08
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	LC Pass
High	72.00				60.00		36.00
Low	48.00				40.00		24.00

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	.0105	-.0045	-.0094	.2628	-.0230	.0064	11.52
SDev	.0051	.0089	.0135	.0918	.0510	.0001	.05
%RSD	48.47	199.3	143.4	34.92	222.3	.8060	.3987
#1	.0076	-.0146	-.0170	.3451	-.0374	.0063	11.51
#2	.0075	-.0012	.0062	.1639	.0338	.0064	11.56
#3	.0164	.0024	-.0175	.2795	-.0652	.0064	11.47
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High							12.00
Low							8.000

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	.1857	.0263	-.0129	.0003
SDev	.0900	.0338	.0058	.0020
%RSD	48.46	128.6	44.64	611.6
#1	.2707	-.0122	-.0168	-.0020
#2	.0914	.0511	-.0063	.0014
#3	.1951	.0400	-.0156	.0015
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: NEW Sample Name: intb1 Operator: CRM
Run Time: 05/08/00 10:07:52
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	11.89	8.795	L6.474	3.135	.9729	4.380	2.951
SDev	.04	.194	.331	.018	.0034	.017	.009
%RSD	.3768	2.208	5.118	.5586	.3464	.3928	.3019
#1	11.88	8.574	L6.804	3.136	.9727	4.387	2.959
#2	11.86	8.875	L6.476	3.117	.9696	4.360	2.941
#3	11.94	8.937	L6.141	3.152	.9763	4.392	2.954
Errors	LC Pass	LC Pass	LC Low	NOCHECK	NOCHECK	LC Pass	LC Pass
High	14.40	12.00	12.00			6.000	3.600
Low	9.600	8.000	8.000			4.000	2.400

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	58.11	2.918	3.000	2.937	48.79	9.547	29.14
SDev	.21	.009	.012	.011	.20	.051	.08
%RSD	.3564	.2920	.3867	.3765	.4084	.5348	.2780
#1	57.94	2.914	3.002	2.935	49.00	9.497	29.10
#2	58.05	2.912	2.988	2.928	48.61	9.599	29.09
#3	58.34	2.928	3.011	2.949	48.77	9.545	29.23
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	72.00	3.600	3.600	3.600	60.00	12.00	36.00
Low	48.00	2.400	2.400	2.400	40.00	8.000	24.00

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	1.970	2.877	2.909	194.1	4.663	2.826	11.02
SDev	.008	.020	.031	.4	.112	.011	.05
%RSD	.3936	.6850	1.065	.2264	2.411	.3721	.4287
#1	1.966	2.880	2.945	194.3	4.748	2.830	11.00
#2	1.966	2.856	2.894	193.7	4.535	2.814	10.98
#3	1.979	2.895	2.888	194.5	4.706	2.834	11.07
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass
High	2.400	3.600	3.600	240.0	6.000		12.00
Low	1.600	2.400	2.400	160.0	4.000		8.000

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	10.01	4.285	2.599	2.964
SDev	.21	.259	.021	.020
%RSD	2.057	6.035	.7978	.6646
#1	9.921	4.555	2.604	2.960
#2	10.24	4.260	2.576	2.947
#3	9.856	4.040	2.616	2.985
Errors	LC Pass	NOCHECK	LC Pass	LC Pass
High	12.00		3.600	3.600
Low	8.000		2.400	2.400

Operator: CRM

Method: NEW Sample Name: ccv
Run Time: 05/08/00 19:32:56
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	5.020	4.581	4.996	4.911	4.850	4.765	4.979
SDev	.068	.084	.090	.050	.046	.052	.057
%RSD	1.354	1.830	1.797	1.010	.9494	1.094	1.147
#1	4.947	4.519	4.944	4.871	4.812	4.718	4.918
#2	5.033	4.548	4.943	4.895	4.837	4.755	4.989
#3	5.081	4.677	5.099	4.967	4.901	4.821	5.031
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	H5.699	4.917	4.921	4.892	5.085	H5.526	H5.592
SDev	.062	.046	.040	.047	.030	.074	.059
%RSD	1.086	.9422	.8191	.9575	.5831	1.333	1.048
#1	H5.645	4.871	4.882	4.853	5.058	5.473	H5.538
#2	H5.686	4.915	4.920	4.879	5.082	5.495	H5.586
#3	H5.767	4.963	4.963	4.944	5.117	H5.610	H5.654
Errors	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC High
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	4.885	4.961	4.938	49.29	5.397	.4840	51.43
SDev	.034	.070	.039	.47	.040	.0044	.48
%RSD	.6878	1.419	.7846	.9557	.7337	.9034	.9263
#1	4.853	4.936	4.916	48.75	5.373	.4798	51.02
#2	4.881	4.906	4.916	49.64	5.443	.4837	51.30
#3	4.920	5.040	4.983	49.48	5.375	.4886	51.95
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	55.00	5.500	.5500	55.00
Low	4.500	4.500	4.500	45.00	4.500	.4500	45.00

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	5.295	-.1148	4.960	4.875
SDev	.028	.0188	.044	.051
%RSD	.5305	16.35	.8808	1.042
#1	5.327	-.1303	4.921	4.829
#2	5.283	-.0939	4.953	4.867
#3	5.275	-.1202	5.007	4.930
Errors	LC Pass	NOCHECK	LC Pass	LC Pass
High	5.500		5.500	5.500
Low	4.500		4.500	4.500

Method: NEW Sample Name: ccv Operator: CRM
Run Time: 05/08/00 19:39:22
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	5.091	4.857	4.960	4.983	4.924	4.830	5.003
SDev	.065	.223	.111	.065	.058	.076	.058
%RSD	1.267	4.583	2.240	1.312	1.180	1.564	1.152
#1	5.035	4.517	4.859	4.928	4.872	4.757	4.944
#2	5.161	5.057	5.079	5.056	4.987	4.908	5.059
#3	5.076	4.898	4.943	4.966	4.912	4.826	5.008
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	H5.713	4.988	4.981	4.967	5.189	H5.573	H5.674
SDev	.059	.064	.054	.061	.068	.063	.071
%RSD	1.037	1.290	1.085	1.229	1.314	1.137	1.250
#1	H5.653	4.928	4.933	4.913	5.129	H5.506	H5.630
#2	H5.772	5.056	5.040	5.033	5.263	H5.581	H5.755
#3	H5.714	4.981	4.971	4.954	5.174	H5.632	H5.635
Errors	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC High
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	4.958	5.049	4.968	50.36	5.335	.4888	51.83
SDev	.062	.056	.022	.85	.108	.0005	.66
%RSD	1.246	1.117	.4463	1.688	2.026	.1027	1.268
#1	4.904	4.984	4.943	49.44	5.217	.4885	51.24
#2	5.025	5.080	4.981	51.11	5.429	.4894	52.53
#3	4.946	5.083	4.981	50.53	5.358	.4886	51.70
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	55.00	5.500	.5500	55.00
Low	4.500	4.500	4.500	45.00	4.500	.4500	45.00

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	5.260	-.1007	5.029	4.926
SDev	.033	.0252	.065	.060
%RSD	.6311	25.07	1.289	1.214
#1	5.296	-.0905	4.975	4.867
#2	5.256	-.1294	5.101	4.986
#3	5.230	-.0821	5.011	4.926
Errors	LC Pass	NOCHECK	LC Pass	LC Pass
High	5.500		5.500	5.500
Low	4.500		4.500	4.500

Method: NEW Sample Name: ccb Operator: CRM
Run Time: 05/08/00 19:45:49
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	-.0313	L-.1212	-.0649	-.0051	L-.0070	.0012	-.0087
SDev	.0186	.0804	.0227	.0001	.0001	.0000	.0086
%RSD	59.48	66.37	34.94	2.548	1.554	2.562	99.34
#1	-.0227	-.0300	-.0519	-.0051	L-.0070	.0012	-.0064
#2	-.0527	L-.1516	-.0517	-.0051	L-.0069	.0012	L-.0182
#3	-.0185	L-.1819	-.0911	-.0049	L-.0070	.0013	-.0014
Errors	LC Pass	LC Low	LC Pass	LC Pass	LC Low	LC Pass	LC Pass
High	.1000	.1000	.5000	.0200	.0030	.1000	.0100
Low	-.1000	-.1000	-.5000	-.0200	-.0030	-.1000	-.0100

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	.0145	-.0063	-.0090	-.0080	-.0031	-.0002	-.0011
SDev	.0078	.0029	.0026	.0020	.0017	.0276	.0144
%RSD	53.66	46.11	28.46	24.90	55.29	13190.	1355.
#1	.0068	-.0091	-.0106	-.0092	-.0034	-.0314	-.0030
#2	.0143	-.0033	-.0060	-.0057	-.0013	.0207	-.0144
#3	.0223	-.0066	-.0103	-.0092	-.0047	.0101	.0143
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.000	.0100	.0200	.0100	.1000	.0800	1.000
Low	-1.000	-.0100	-.0200	-.0100	-.1000	-.0800	-1.000

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	-.0076	-.0026	-.0104	.2750	-.0293	.0018	.6279
SDev	.0005	.0056	.0046	.2625	.0203	.0043	.0289
%RSD	6.962	219.9	44.13	95.45	69.28	237.8	4.594
#1	-.0078	-.0064	-.0066	.3423	-.0527	.0068	.5960
#2	-.0069	-.0052	-.0091	.4972	-.0176	-.0003	.6356
#3	-.0079	.0039	-.0155	-.0146	-.0175	-.0011	.6521
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0100	.0200	.0200	5.000	.2000	.0200	5.000
Low	-.0100	-.0200	-.0200	-5.000	-.2000	-.0200	-5.000

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	.1677	-.0074	-.0237	-.0113
SDev	.1933	.0119	.0094	.0038
%RSD	115.2	161.6	39.58	33.40
#1	.1040	-.0090	-.0212	-.0076
#2	.3847	.0053	L-.0341	-.0151
#3	.0143	-.0184	-.0159	-.0112
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	.5000	.5000	.0300	.0200
Low	-.5000	-.5000	-.0300	-.0200

Report Cd

Method: NEW Sample Name: 264724 Operator: CRM
Run Time: 05/08/00 19:48:49
Comment:
Mode: CONC Corr. Factor: 50

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	5602.	-3.963	4.331	18.03	-.1128	-6.776	-.3994
SDev	123.	2.685	3.503	.37	.0063	.332	.4106
%RSD	2.195	67.76	80.89	2.055	5.554	4.896	102.8
#1	5467.	-6.506	7.429	17.62	-.1186	-6.401	.0488
#2	5633.	-1.155	.5295	18.11	-.1062	-7.033	-.7573
#3	5707.	-4.227	5.034	18.35	-.1136	-6.894	-.4898
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	1069.	9.510	3.544	6.289	9432.	3.623	1126.
SDev	25.	.187	.168	.181	204.	2.480	26.
%RSD	2.345	1.969	4.730	2.883	2.162	68.46	2.265
#1	1042.	9.347	3.376	6.081	9200.	2.411	1098.
#2	1076.	9.715	3.545	6.379	9510.	1.982	1134.
#3	1090.	9.468	3.712	6.408	9585.	6.476	1147.
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	207.2	.9971	8.084	402.1	.3637	-.1449	64.11
SDev	4.4	.7165	.661	9.8	5.772	.0693	2.26
%RSD	2.103	71.86	8.173	2.448	1587.	47.85	3.522
#1	202.3	1.813	7.395	402.0	1.662	-.1156	62.45
#2	209.0	.7051	8.712	412.0	5.376	-.2240	63.21
#3	210.4	.4727	8.145	392.3	-5.947	-.0950	66.68
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	92.16	-2.550	7.864	25.70
SDev	13.53	1.153	1.032	.37
%RSD	14.68	45.23	13.12	1.455
#1	107.6	-1.625	6.685	25.32
#2	82.52	-2.183	8.605	25.70
#3	86.33	-3.843	8.301	26.07
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Report Cl

Method: NEW Sample Name: 264725 Operator: CRM
Run Time: 05/08/00 19:51:49
Comment:
Mode: CONC Corr. Factor: 50

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	4053.	-2.341	-1.406	45.50	-.1080	-3.610	.3781
SDev	36.	8.001	5.714	.39	.0045	.499	.5502
%RSD	.8855	341.7	406.3	.8490	4.203	13.81	145.5
#1	4033.	2.071	-1.303	45.35	-.1132	-3.830	.7704
#2	4094.	2.481	4.256	45.94	-.1047	-3.961	.6149
#3	4032.	-11.58	-7.172	45.21	-.1061	-3.040	-.2508
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	S22050.	5.613	2.362	10.20	6764.	10.61	7427.
SDev	38198.	.096	.161	.17	70.	1.16	76.
%RSD	173.2	1.713	6.802	1.627	1.031	10.95	1.023
#1	S66160.	5.724	2.192	10.01	6720.	11.36	7359.
#2	S-1.185	5.558	2.511	10.32	6845.	11.20	7509.
#3	S-1.183	5.557	2.384	10.28	6729.	9.270	7412.
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	170.9	-.2079	5.403	381.1	-1.654	-.2108	83.52
SDev	1.7	.4686	.821	6.8	3.983	.0909	1.41
%RSD	1.008	225.4	15.20	1.792	240.8	43.10	1.693
#1	169.8	-.1191	6.274	374.1	.6469	-.2308	81.90
#2	172.9	.2099	5.291	381.5	-6.254	-.2901	84.19
#3	170.1	-.7145	4.643	387.8	.6441	-.1116	84.48
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	88.87	-1.084	3.712	42.41
SDev	8.09	1.440	.383	.32
%RSD	9.105	132.7	10.33	.7498
#1	88.00	-.2936	3.634	42.22
#2	97.37	-.2137	3.373	42.78
#3	81.26	-2.746	4.128	42.24
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Report Cd

Method: NEW Sample Name: 264726 Operator: CRM
Run Time: 05/08/00 19:54:49
Comment:
Mode: CONC Corr. Factor: 50

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	3982.	-4.579	.8723	64.99	-.1265	-7.034	-.7373
SDev	23.	7.674	3.408	.24	.0013	.098	.1047
%RSD	.5776	167.6	390.7	.3726	1.029	1.390	14.21
#1	3966.	-11.45	-2.654	64.89	-.1269	-6.969	-.8371
#2	3971.	3.700	4.148	64.83	-.1276	-7.147	-.6282
#3	4008.	-5.984	1.124	65.27	-.1251	-6.987	-.7467
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	S22030.	5.119	2.960	6.373	9361.	3.146	2589.
SDev	38162.	.200	.139	.090	63.	1.652	13.
%RSD	173.2	3.904	4.702	1.412	.6771	52.50	.4960
#1	S66100.	5.024	3.026	6.473	9325.	3.532	2581.
#2	S-1.194	4.984	3.055	6.300	9324.	4.572	2582.
#3	S-1.194	5.348	2.801	6.345	9434.	1.336	2604.
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	991.6	.0848	4.941	249.4	-.8770	-.4751	73.99
SDev	7.5	.6316	.091	22.3	3.9933	.2338	1.07
%RSD	.7599	745.0	1.849	8.942	455.3	49.21	1.442
#1	987.5	-.2902	4.990	236.3	3.465	-.2055	72.94
#2	987.0	.8139	4.998	275.2	-4.392	-.5974	73.96
#3	1000.	-.2695	4.836	236.8	-1.705	-.6224	75.07
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High							
Low							

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	107.9	-2.712	2.154	34.13
SDev	13.7	.839	.729	.28
%RSD	12.71	30.92	33.86	.8187
#1	106.7	-3.610	2.351	33.82
#2	94.86	-2.579	2.763	34.20
#3	122.2	-1.949	1.346	34.37
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Report Bq

Method: NEW Sample Name: ccv Operator: CRM
Run Time: 05/08/00 20:19:19
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	5.066	4.728	4.991	4.929 ✓	4.835	4.739	4.961
SDev	.101	.210	.114	.060	.064	.078	.074
%RSD	1.999	4.432	2.290	1.226	1.318	1.650	1.486
#1	4.958	L4.489	4.859	4.867	4.767	4.661	4.889
#2	5.079	4.879	5.067	4.932	4.843	4.739	4.958
#3	5.159	4.817	5.046	4.987	4.893	4.817	5.037
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	H5.701	4.932	4.950	4.884	5.346	H5.579	H5.623
SDev	.080	.062	.072	.057	.043	.202	.084
%RSD	1.403	1.260	1.464	1.165	.8098	3.618	1.489
#1	H5.618	4.863	4.876	4.824	5.314	5.494 -6K	H5.539
#2	H5.706	4.953	4.955	4.891	5.328	5.433	H5.625
#3	H5.778	4.982	5.021	4.937	5.395	H5.809	H5.706
Errors	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC High
High	5.500	5.500	5.500	5.500	5.500	5.500	5.500
Low	4.500	4.500	4.500	4.500	4.500	4.500	4.500

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	4.897	4.980	4.898	49.52	5.450	.4857	51.05
SDev	.061	.100	.054	.27	.029	.0033	.64
%RSD	1.242	2.015	1.108	.5361	.5256	.6853	1.250
#1	4.835	4.872	4.839	49.36	5.425	.4845	50.39
#2	4.898	4.997	4.911	49.83	5.444	.4831	51.10
#3	4.957	5.070	4.945	49.38	5.481	.4894	51.67
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	5.500	5.500	55.00	5.500	.5500	55.00
Low	4.500	4.500	4.500	45.00	4.500	.4500	45.00

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	H5.508	-.1380	4.960	4.853
SDev	.088	.0130	.082	.076
%RSD	1.594	9.402	1.652	1.567
#1	H5.594	-.1259	4.873	4.770
#2	5.419	-.1364	4.972	4.870
#3	H5.512 -01L	-.1517	5.035	4.919
Errors	LC High	NOCHECK	LC Pass	LC Pass
High	5.500		5.500	5.500
Low	4.500		4.500	4.500

Method: NEW Sample Name: ccb Operator: CRM
Run Time: 05/08/00 20:32:13
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	-.0381	-.0674	.0156	-.0060	L-.0068	-.0054	-.0069
SDev	.0137	.0478	.0323	.0009	.0001	.0010	.0052
%RSD	35.90	70.89	207.3	15.16	1.375	19.09	74.58
#1	-.0382	-.0303	.0004	-.0063	L-.0069	-.0042	-.0078
#2	-.0244	L-.1213	-.0063	-.0050	L-.0067	-.0059	L-.0116
#3	-.0518	-.0506	.0526	-.0068	L-.0069	-.0060	-.0014
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Pass
High	.1000	.1000	.5000	.0200	.0030	.1000	.0100
Low	-.1000	-.1000	-.5000	-.0200	-.0030	-.1000	-.0100

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	.0013	-.0083	-.0111	-.0051	-.0032	-.0349	-.0123
SDev	.0045	.0036	.0066	.0043	.0047	.0432	.0238
%RSD	349.2	43.46	59.35	83.92	149.7	123.8	193.8
#1	-.0039	L-.0124	-.0185	-.0092	-.0036	-.0003	-.0398
#2	.0043	-.0058	-.0088	-.0006	.0018	-.0210	-.0001
#3	.0035	-.0066	-.0060	-.0057	-.0077	L-.0833	.0030
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.000	.0100	.0200	.0100	.1000	.0800	1.000
Low	-1.000	-.0100	-.0200	-.0100	-.1000	-.0800	-1.000

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	-.0078	.0048	-.0119	-.1212	-.1458	-.0003	.9481
SDev	.0002	.0051	.0234	.4030	.2458	.0054	.0429
%RSD	3.062	106.1	196.4	332.5	168.6	2000.	4.527
#1	-.0080	.0077	L-.0291	-.3884	-.1224	-.0034	.9115
#2	-.0075	-.0011	L-.0215	.3424	.0875	.0060	.9953
#3	-.0078	.0077	.0148	-.3176	L-.4024	-.0034	.9375
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0100	.0200	.0200	5.000	.2000	.0200	5.000
Low	-.0100	-.0200	-.0200	-5.000	-.2000	-.0200	-5.000

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	.1078	.0184	-.0221	-.0100
SDev	.0678	.0162	.0011	.0042
%RSD	62.88	88.05	4.854	41.62
#1	.0366	.0227	-.0212	-.0148
#2	.1714	.0005	-.0233	-.0075
#3	.1152	.0321	-.0219	-.0077
Errors	LC Pass	LC Pass	LC Pass	LC Pass
High	.5000	.5000	.0300	.0200
Low	-.5000	-.5000	-.0300	-.0200

Method: NEW Sample Name: crd1 Operator: CRM
Run Time: 05/09/00 00:04:12
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	-.0019	L.0909	.0760	.0131	L.0130	-.0013	.0163
SDev	.0087	.0966	.0189	.0003	.0002	.0027	.0028
%RSD	447.7	106.2	24.87	1.963	1.241	212.7	17.08
#1	-.0119	L.0807	.0978	.0133	L.0130	-.0042	L.0131
#2	.0032	L-.0001	.0651	.0133	L.0128	-.0007	.0179
#3	.0030	.1922	.0651	.0128	L.0132	.0011	.0179
Errors	NOCHECK	LC Low	NOCHECK	NOCHECK	LC Low	NOCHECK	LC Pass
High		.3000			.0250		.0250
Low		.1800			.0150		.0150

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	.0972	.0343	.1814	.1043	.0089	.0006	.0310
SDev	.0043	.0029	.0013	.0034	.0017	.0217	.0017
%RSD	4.469	8.456	.7192	3.293	18.99	3868.	5.469
#1	.1014	.0346	.1824	.1043	.0103	.0249	.0320
#2	.0927	.0371	.1799	.1008	.0070	-.0065	.0291
#3	.0975	.0313	.1820	.1077	.0094	-.0167	.0320
Errors	NOCHECK	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK
High		.0500	.2500	.1250			
Low		.0300	.1500	.0750			

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	.0539	.0022	.1525	.0584	-.0110	.0417	-.0328
SDev	.0010	.0028	.0104	.1944	.0101	.0032	.0205
%RSD	1.869	131.2	6.798	333.0	91.09	7.613	62.53
#1	.0534	.0032	.1406	.0124	-.0169	.0383	-.0565
#2	.0550	-.0011	.1597	-.1089	.0006	.0446	-.0202
#3	.0532	.0043	.1573	.2716	-.0168	.0422	-.0218
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	NOCHECK
High	.0750		.2000			.0500	
Low	.0450		.1200			.0300	

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	.1249	-.0095	.1911	.0699
SDev	.1072	.0024	.0062	.0021
%RSD	85.84	25.39	3.236	3.045
#1	.1808	-.0090	.1840	.0675
#2	.0013	-.0074	.1953	.0712
#3	.1925	-.0121	.1940	.0712
Errors	NOCHECK	NOCHECK	LC Pass	LC Pass
High			.2500	.1000
Low			.1500	.0600

Method: NEW Sample Name: inta1 Operator: CRM
Run Time: 05/09/00 00:07:14
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	12.11	-.0939	-.0167	.0118	-.0069	-.0518	-.0063
SDev	.18	.0706	.0178	.0006	.0001	.0008	.0078
%RSD	1.506	75.18	106.7	5.252	1.704	1.518	123.9
#1	11.90	-.1675	-.0337	.0112	-.0070	-.0518	-.0084
#2	12.19	-.0268	.0018	.0124	-.0068	-.0525	.0024
#3	12.23	-.0874	-.0182	.0120	-.0068	-.0510	-.0128
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	14.40						
Low	9.600						

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	62.40	-.0079	-.0097	.0037	49.42	.0249	30.95
SDev	.85	.0009	.0036	.0024	.85	.0362	.41
%RSD	1.358	11.88	37.04	64.83	1.724	145.7	1.317
#1	61.43	-.0074	-.0128	.0056	48.44	-.0128	30.48
#2	62.81	-.0090	-.0057	.0010	49.82	.0595	31.20
#3	62.96	-.0074	-.0105	.0045	49.99	.0280	31.17
Errors	LC Pass	NOCHECK	NOCHECK	NOCHECK	LC Pass	NOCHECK	LC Pass
High	72.00				60.00		36.00
Low	48.00				40.00		24.00

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	.0018	-.0050	-.0045	.3986	-.0216	.0002	10.67
SDev	.0020	.0080	.0031	.4496	.0561	.0033	.16
%RSD	109.5	161.3	68.70	112.8	259.9	1930.	1.474
#1	-.0005	.0041	-.0079	.7766	.0012	-.0036	10.49
#2	.0031	-.0081	-.0034	-.0986	-.0855	.0021	10.75
#3	.0028	-.0110	-.0021	.5177	.0196	.0021	10.77
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC Pass
High							12.00
Low							8.000

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	.6986	-.0038	-.0540	-.0012
SDev	.2248	.0228	.0148	.0002
%RSD	32.17	597.3	27.50	14.16
#1	.4607	-.0170	-.0382	-.0010
#2	.9074	.0225	-.0676	-.0014
#3	.7276	-.0170	-.0561	-.0013
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High				
Low				

Method: NEW Sample Name: intbl Operator: CRM
Run Time: 05/09/00 00:10:15
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	As1936	Ba4934	Be3130	B_2496	Cd2288
Avge	11.79	8.484	L5.218	3.127	.8837	4.099	2.801
SDev	.12	.323	.040	.035	.0093	.056	.023
%RSD	1.045	3.806	.7582	1.114	1.048	1.358	.8349
#1	11.66	8.180	L5.174	3.088	.8735	4.037	2.781
#2	11.80	8.450	L5.251	3.137	.8861	4.113	2.795
#3	11.90	8.823	L5.230	3.156	.8916	4.146	2.827
Errors	LC Pass	LC Pass	LC Low	NOCHECK	NOCHECK	LC Pass	LC Pass
High	14.40	12.00	12.00			6.000	3.600
Low	9.600	8.000	8.000			4.000	2.400

Elem	Ca3179	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790
Avge	60.76	2.770	2.784	3.034	46.95	9.802	29.99
SDev	.66	.035	.021	.028	.40	.178	.26
%RSD	1.082	1.255	.7718	.9238	.8487	1.815	.8521
#1	60.03	2.732	2.759	3.003	46.50	9.603	29.70
#2	60.94	2.775	2.795	3.044	47.09	9.854	30.06
#3	61.31	2.801	2.798	3.056	47.27	9.948	30.20
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	72.00	3.600	3.600	3.600	60.00	12.00	36.00
Low	48.00	2.400	2.400	2.400	40.00	8.000	24.00

Elem	Mn2576	Mo2020	Ni2316	K_7664	Se1960	Ag3280	Na5889
Avge	1.870	2.753	2.695	203.4	4.363	2.758	10.34
SDev	.025	.061	.058	1.9	.075	.030	.11
%RSD	1.329	2.206	2.151	.9320	1.723	1.097	1.086
#1	1.842	2.694	2.632	201.4	4.397	2.790	10.22
#2	1.881	2.749	2.707	203.6	4.416	2.754	10.36
#3	1.888	2.815	2.746	205.1	4.277	2.729	10.44
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass
High	2.400	3.600	3.600	240.0	6.000		12.00
Low	1.600	2.400	2.400	160.0	4.000		8.000

Elem	Tl1908	Sn1899	V_2924	Zn2138
Avge	10.41	2.530	2.511	2.785
SDev	.20	.048	.038	.030
%RSD	1.943	1.882	1.494	1.087
#1	10.35	2.476	2.473	2.752
#2	10.64	2.549	2.510	2.811
#3	10.24	2.565	2.548	2.792
Errors	LC Pass	NOCHECK	LC Pass	LC Pass
High	12.00		3.600	3.600
Low	8.000		2.400	2.400