ANALYTE	STOCK PPM	stock VOL mL	int fv mL	INT ppm	INT vol mL	L10 FV mL	L10 ppb	INT vol mL	L9 FV mL	L9 ppb
Aldrin	100	1.25	50	2.5	6	25	600	8	50	400
Alpha-BHC	100	1.25	50	2.5	6	25	600	8	50	400
Alpha-Chlordane	100	1.25	50	2.5	6	25	600	8	50	400
Beta-BHC	100	1.25	50	2.5	6	25	600	8	50	400
Bifenthrin	100	1.25	50	2.5	6	25	600	8	50	400
Carbophenothion	100	1.25	50	2.5	6	25	600	8	50	400
Chlorothalonil	100	1.25	50	2.5	6	25	600	8	50	400
Cis-Nonachlor	100	1.25	50	2.5	6	25	600	8	50	400
Dacthal	100	1.25	50	2.5	6	25	600	8	50	400
DDD-p,p'	100	1.25	50	2.5	6	25	600	8	50	400
DDE-p,p'	100	1.25	50	2.5	6	25	600	8	50	400
DDT-p,p'	100	1.25	50	2.5	6	25	600	8	50	400
Delta-BHC	100	1.25	50	2.5	6	25	600	8	50	400
Dieldrin	100	1.25	50	2.5	6	25	600	8	50	400
Endosulfan I	100	1.25	50	2.5	6	25	600	8	50	400
Endosulfan II	100	1.25	50	2.5	6	25	600	8	50	400
Endosulfan Sulfate	100	1.25	50	2.5	6	25	600	8	50	400
Endrin	100	1.25	50	2.5	6	25	600	8	50	400
Endrin Aldehyde	100	1.25	50	2.5	6	25	600	8	50	400
Endrin Ketone	100	1.25	50	2.5	6	25	600	8	50	400
Ethalfluralin	100	1.25	50	2.5	6	25	600	8	50	400
Gamma-BHC	100	1.25	50	2.5	6	25	600	8	50	400
Gamma-Chlordane	100	1.25	50	2.5	6	25	600	8	50	400
Heptachlor	100	1.25	50	2.5	6	25	600	8	50	400
Heptachlor Epoxide	100	1.25	50	2.5	6	25	600	8	50	400
Hexachlorobenzene	100	1.25	50	2.5	6	25	600	8	50	400
Methoxychlor	100	1.25	50	2.5	6	25	600	8	50	400
Mirex	100	1.25	50	2.5	6	25	600	8	50	400
Trans-Nonachlor	100	1.25	50	2.5	6	25	600	8	50	400
Trifluralin	100	1.25	50	2.5	6	25	600	8	50	400
Beta-Cyfluthrin	500	1.25	50	12.5	6	25	3000	8	50	2000
Cypermethrin	500	1.25	50	12.5	6	25	3000	8	50	2000
Deltamethrin	500	1.25	50	12.5	6	25	3000	8	50	2000
Dicofol	500	1.25	50	12.5	6	25	3000	8	50	2000
Lambda-Cyhallothrin	500	1.25	50	12.5	6	25	3000	8	50	2000
Permethrin	500	1.25	50	12.5	6	25	3000	8	50	2000
Phenothrin	500	1.25	50	12.5	6	25	3000	8	50	2000
Prallethrin	500	1.25	50	12.5	6	25	3000	8	50	2000
Tetrachloro-m-xylene	100	1.25	50	2.5	6	25	600	8	50	400
DCB	100	1.25	50	2.5	6	25	600	8	50	400
PCNB	100	1.25	50	2.5	6	25	600	8	50	400

separate mix
separate mix

100 uL per 50 mL FV of 50 ppm CL istd added to each working std

INT vol mL	L8 FV mL	L8 ppb	INT vol mL	L7 FV mL	L7 ppb	INT vol mL	L6 FV mL	L6 ppb	INT vol mL	L5 FV mL	L5 ppb
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	1000	2	50	500	2	100	250	0.8	100	100
4	50	1000	2	50	500	2	100	250	0.8	100	100
4	50	1000	2	50	500	2	100	250	0.8	100	100
4	50	1000	2	50	500	2	100	250	0.8	100	100
4	50	1000	2	50	500	2	100	250	0.8	100	100
4	50	1000	2	50	500	2	100	250	0.8	100	100
4	50	1000	2	50	500	2	100	250	0.8	100	100
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20
4	50	200	2	50	100	2	100	50	0.8	100	20

INT vol mL	L4 FV mL	L4 ppb	INT vol mL	L3 FV mL	L3 ppb	INT vol mL	L2 FV mL	L2 ppb	INT vol mL	L1 FV mL	L1 ppb
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	50	0.12	50	30	0.04	50	10	0.02	50	5
0.2	50	50	0.12	50	30	0.04	50	10	0.02	50	5
0.2	50	50	0.12	50	30	0.04	50	10	0.02	50	5
0.2	50	50	0.12	50	30	0.04	50	10	0.02	50	5
0.2	50	50	0.12	50	30	0.04	50	10	0.02	50	5
0.2	50	50	0.12	50	30	0.04	50	10	0.02	50	5
0.2	50	50	0.12	50	30	0.04	50	10	0.02	50	5
0.2	50	50	0.12	50	30	0.04	50	10	0.02	50	5
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1
0.2	50	10	0.12	50	6	0.04	50	2	0.02	50	1

stock VOL mL	spk fv mL	spk ppb
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	200
0.4	200	1000
0.4	200	1000
0.4	200	1000
0.4	200	1000
0.4	200	1000
0.4	200	1000
0.4	200	1000
0.4	200	1000
0.4	200	1000
0.4	200	200
0.4	200	200
0.4	200	200

separate spike
separate spike

ANALYTE	STOCK PPM	stock VOL mL	int fv mL	INT ppm	INT vol mL	L6 ICV FV mL	L6 ICV ppb
Alpha-BHC	100	1.25	50	2.5	0.5	25	50
Alpha-Chlordane	100	1.25	50	2.5	0.5	25	50
Beta-BHC	100	1.25	50	2.5	0.5	25	50
Bifenthrin	100	1.25	50	2.5	0.5	25	50
Cis-Nonachlor	100	1.25	50	2.5	0.5	25	50
Dacthal	100	1.25	50	2.5	0.5	25	50
DDD-p,p'	100	1.25	50	2.5	0.5	25	50
DDE-p,p'	100	1.25	50	2.5	0.5	25	50
Ethalfluralin	100	1.25	50	2.5	0.5	25	50
Gamma-BHC	100	1.25	50	2.5	0.5	25	50
Gamma-Chlordane	100	1.25	50	2.5	0.5	25	50
Heptachlor	100	1.25	50	2.5	0.5	25	50
Heptachlor Epoxide	100	1.25	50	2.5	0.5	25	50
Hexachlorobenzene	100	1.25	50	2.5	0.5	25	50
Lambda-Cyhallothrin	100	1.25	50	2.5	0.5	25	50
Methoxychlor	100	1.25	50	2.5	0.5	25	50
Trans-Nonachlor	100	1.25	50	2.5	0.5	25	50
Aldrin	200	1.25	50	5	0.5	25	100
Beta-Cyfluthrin	200	1.25	50	5	0.5	25	100
Carbophenothion	200	1.25	50	5	0.5	25	100
Cypermethrin	200	1.25	50	5	0.5	25	100
DDT-p,p'	200	1.25	50	5	0.5	25	100
Deltamethrin	200	1.25	50	5	0.5	25	100
Endosulfan Sulfate	200	1.25	50	5	0.5	25	100
Mirex	200	1.25	50	5	0.5	25	100
Permethrin	200	1.25	50	5	0.5	25	100
Phenothrin	200	1.25	50	5	0.5	25	100
Trifluralin	200	1.25	50	5	0.5	25	100
Chlorothalonil	400	1.25	50	10	0.5	25	200
Delta-BHC	400	1.25	50	10	0.5	25	200
Dicofol	400	1.25	50	10	0.5	25	200
Dieldrin	400	1.25	50	10	0.5	25	200
Endosulfan I	400	1.25	50	10	0.5	25	200
Endosulfan II	400	1.25	50	10	0.5	25	200
Endrin	400	1.25	50	10	0.5	25	200
Endrin Aldehyde	400	1.25	50	10	0.5	25	200
Endrin Ketone	400	1.25	50	10	0.5	25	200
Prallethrin	400	1.25	50	10	0.5	25	200

100 uL per 50 mL FV of 50 ppm CL istd added to each working std

VAL SPK CONCENTRATION WILL BE LOWERED IF FULL SENSITIVITY USED

INT vol mL	L5 ICV FV mL	L5 ICV ppb	INT vol mL	val spk FV mL	val spk ppb
0.2	25	20	0.4	200	200
0.2	25	20	0.4	200	200
0.2	25	20	0.4	200	200
0.2	25	20	0.4	200	200
0.2	25	20	0.4	200	200
0.2	25	20	0.4	200	200
0.2	25	20	0.4	200	200
0.2	25	20	0.4	200	200
0.2	25	20	0.4	200	200
0.2	25	20	0.4	200	200
0.2	25	20	0.4	200	200
0.2	25	20	0.4	200	200
0.2	25	20	0.4	200	200
0.2	25	20	0.4	200	200
0.2	25	20	0.4	200	200
0.2	25	20	0.4	200	200
0.2	25	20	0.4	200	200
0.2	25	20	0.4	200	200
0.2	25	40	0.4	200	400
0.2	25	40	0.4	200	400
0.2	25	40	0.4	200	400
0.2	25	40	0.4	200	400
0.2	25	40	0.4	200	400
0.2	25	40	0.4	200	400
0.2	25	40	0.4	200	400
0.2	25	40	0.4	200	400
0.2	25	40	0.4	200	400
0.2	25	40	0.4	200	400
0.2	25	40	0.4	200	400
0.2	25	80	0.4	200	800
0.2	25	80	0.4	200	800
0.2	25	80	0.4	200	800
0.2	25	80	0.4	200	800
0.2	25	80	0.4	200	800
0.2	25	80	0.4	200	800
0.2	25	80	0.4	200	800
0.2	25	80	0.4	200	800
0.2	25	80	0.4	200	800
0.2	25	80	0.4	200	800



Esfenvalerate	100
Fenpropathrin	100
Tau-Fluvalinate	100
MGK-264	100
Piperonil Butoxide	100
Tetramethrin	100
Dichlobenil	100
Kepone	100

Azoxystrobin	100
Carfentrazone Ethyl	100
Difenoconazole	100
Fenbuconazole	100
Fluazifop-P-butyl	100
Fludioxonil	100
Flutolanil	100
Fluxapyroxad	100
Iprodione	100
Myclobutanil	100
Oxyfluorfen	100
Pyriproxyfen	100

ANALYTE	STOCK PPM	stock VOL mL	int fv mL	INT ppm	INT vol mL	L8 FV mL	L8 ppb
Fonofos	50	0.5	50	0.5	5	50	50
Chlorpyrifos Methyl	100	0.5	50	1	5	50	100
Dimethenamid	100	0.5	50	1	5	50	100
Disulfoton	100	0.5	50	1	5	50	100
Ethoprop	100	0.5	50	1	5	50	100
Fipronil Sulfide	100	0.5	50	1	5	50	100
Fipronil Sulfone	100	0.5	50	1	5	50	100
Parathion Ethyl	100	0.5	50	1	5	50	100
Phorate	100	0.5	50	1	5	50	100
Pronamide	100	0.5	50	1	5	50	100
Terbufos	100	0.5	50	1	5	50	100
Acetochlor	200	0.5	50	2	5	50	200
Ametryn	200	0.5	50	2	5	50	200
Atrazine	200	0.5	50	2	5	50	200
Butylate	200	0.5	50	2	5	50	200
Chlorpyrifos Ethyl	200	0.5	50	2	5	50	200
Cyanazine	200	0.5	50	2	5	50	200
Diazinon	200	0.5	50	2	5	50	200
Dithiopyr	200	0.5	50	2	5	50	200
Ethion	200	0.5	50	2	5	50	200
Fenamiphos	200	0.5	50	2	5	50	200
Fipronil	200	0.5	50	2	5	50	200
Fipronil Desulfinyl	200	0.5	50	2	5	50	200
Imazalil	200	0.5	50	2	5	50	200
Malathion	200	0.5	50	2	5	50	200
Mevinphos	200	0.5	50	2	5	50	200
Molinate	200	0.5	50	2	5	50	200
Oxadiazon	200	0.5	50	2	5	50	200
Parathion Methyl	200	0.5	50	2	5	50	200
Prodiamine	200	0.5	50	2	5	50	200
Prometryn	200	0.5	50	2	5	50	200
Propiconazole	200	0.5	50	2	5	50	200
Simazine	200	0.5	50	2	5	50	200
Terbuthylazine	200	0.5	50	2	5	50	200
Bromacil	400	0.5	50	4	5	50	400
Carbophenothion	400	0.5	50	4	5	50	400
EPTC	400	0.5	50	4	5	50	400
Metribuzin	400	0.5	50	4	5	50	400
Naled	400	0.5	50	4	5	50	400
Pendimethalin	400	0.5	50	4	5	50	400
Prometon	400	0.5	50	4	5	50	400
Sulfentrazone	400	0.5	50	4	5	50	400
Alachlor	600	0.5	50	6	5	50	600
Flumioxazin	600	0.5	50	6	5	50	600
Hexazinone	600	0.5	50	6	5	50	600
Metolachlor	600	0.5	50	6	5	50	600
Norflurazon	600	0.5	50	6	5	50	600
Tebuconazole	600	0.5	50	6	5	50	600
Demeton	700	0.5	50	7	5	50	700
Monocrotophos	700	0.5	50	7	5	50	700
Atrazine Desethyl	800	0.5	50	8	5	50	800
Azinphos Methyl	800	0.5	50	8	5	50	800

Metalaxyl	800	0.5	50	8	5	50	800
Methamidophos	800	0.5	50	8	5	50	800
Simazine-d7	25	4	50	2	5	50	200
Terbufos-d10	25	4	50	2	5	50	200

separate mix
separate mix

100 uL per 50 mL FV of 50 ppm NP istd added to each working std

INT vol mL	L7 FV mL	L7 ppb	INT vol mL	L6 FV mL	L6 ppb	INT vol mL	L5 FV mL	L5 ppb
2.5	50	25	1	50	10	1	100	5
2.5	50	50	1	50	20	1	100	10

2.5	50	400	1	50	160	1	100	80
2.5	50	400	1	50	160	1	100	80
2.5	50	100	1	50	40	1	100	20
2.5	50	100	1	50	40	1	100	20

INT vol mL	L4 FV mL	L4 ppb	INT vol mL	L3 FV mL	L3 ppb	INT vol mL	L2 FV mL	L2 ppb
0.25	50	2.5	0.1	50	1	0.05	50	0.5
0.25	50	5	0.1	50	2	0.05	50	1
0.25	50	5	0.1	50	2	0.05	50	1
0.25	50	5	0.1	50	2	0.05	50	1
0.25	50	5	0.1	50	2	0.05	50	1
0.25	50	5	0.1	50	2	0.05	50	1
0.25	50	5	0.1	50	2	0.05	50	1
0.25	50	5	0.1	50	2	0.05	50	1
0.25	50	5	0.1	50	2	0.05	50	1
0.25	50	5	0.1	50	2	0.05	50	1
0.25	50	5	0.1	50	2	0.05	50	1
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	20	0.1	50	8	0.05	50	4
0.25	50	20	0.1	50	8	0.05	50	4
0.25	50	20	0.1	50	8	0.05	50	4
0.25	50	20	0.1	50	8	0.05	50	4
0.25	50	20	0.1	50	8	0.05	50	4
0.25	50	20	0.1	50	8	0.05	50	4
0.25	50	20	0.1	50	8	0.05	50	4
0.25	50	20	0.1	50	8	0.05	50	4
0.25	50	30	0.1	50	12	0.05	50	6
0.25	50	30	0.1	50	12	0.05	50	6
0.25	50	30	0.1	50	12	0.05	50	6
0.25	50	30	0.1	50	12	0.05	50	6
0.25	50	30	0.1	50	12	0.05	50	6
0.25	50	30	0.1	50	12	0.05	50	6
0.25	50	35	0.1	50	14	0.05	50	7
0.25	50	35	0.1	50	14	0.05	50	7
0.25	50	40	0.1	50	16	0.05	50	8
0.25	50	40	0.1	50	16	0.05	50	8

0.25	50	40	0.1	50	16	0.05	50	8
0.25	50	40	0.1	50	16	0.05	50	8
0.25	50	10	0.1	50	4	0.05	50	2
0.25	50	10	0.1	50	4	0.05	50	2

INT vol mL	L1 FV mL	L1 ppb	stock VOL mL	spk fv mL	spk ppb
0.025	50	0.25	0.04	100	20
0.025	50	0.5	0.08	200	40
0.025	50	0.5	0.08	200	40
0.025	50	0.5	0.08	200	40
0.025	50	0.5	0.08	200	40
0.025	50	0.5	0.08	200	40
0.025	50	0.5	0.08	200	40
0.025	50	0.5	0.08	200	40
0.025	50	0.5	0.08	200	40
0.025	50	0.5	0.08	200	40
0.025	50	0.5	0.08	200	40
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	1	0.08	200	80
0.025	50	2	0.08	200	160
0.025	50	2	0.08	200	160
0.025	50	2	0.08	200	160
0.025	50	2	0.08	200	160
0.025	50	2	0.08	200	160
0.025	50	2	0.08	200	160
0.025	50	2	0.08	200	160
0.025	50	2	0.08	200	160
0.025	50	2	0.08	200	160
0.025	50	3	0.08	200	240
0.025	50	3	0.08	200	240
0.025	50	3	0.08	200	240
0.025	50	3	0.08	200	240
0.025	50	3	0.08	200	240
0.025	50	3	0.08	200	240
0.025	50	3.5	0.08	200	280
0.025	50	3.5	0.08	200	280
0.025	50	4	0.08	200	320
0.025	50	4	0.08	200	320

0.025	50	4	0.08	200	320
0.025	50	4	0.08	200	320
0.025	50	1	0.8	200	100
0.025	50	1	0.8	200	100

separate spike
separate spike

ANALYTE	STOCK PPM	stock VOL mL	int fv mL	INT ppm	INT vol mL	L5 ICV FV mL	L5 ICV ppb
Chlorpyrifos Methyl	100	0.5	50	1	1	100	10
Diazinon	100	0.5	50	1	1	100	10
Dimethenamid	100	0.5	50	1	1	100	10
Ethoprop	100	0.5	50	1	1	100	10
Fipronil Desulfinyl	100	0.5	50	1	1	100	10
Fipronil Sulfide	100	0.5	50	1	1	100	10
Fipronil Sulfone	100	0.5	50	1	1	100	10
Fonofos	100	0.5	50	1	1	100	10
Oxadiazon	100	0.5	50	1	1	100	10
Parathion Ethyl	100	0.5	50	1	1	100	10
Phorate	100	0.5	50	1	1	100	10
Prodiamine	100	0.5	50	1	1	100	10
Prometryn	100	0.5	50	1	1	100	10
Pronamide	100	0.5	50	1	1	100	10
Terbufos	100	0.5	50	1	1	100	10
Dithiopyr	200	0.5	50	2	1	100	20
Acetochlor	200	0.5	50	2	1	100	20
Alachlor	200	0.5	50	2	1	100	20
Ametryn	200	0.5	50	2	1	100	20
Atrazine	200	0.5	50	2	1	100	20
Butylate	200	0.5	50	2	1	100	20
Chlorpyrifos Ethyl	200	0.5	50	2	1	100	20
Disulfoton	200	0.5	50	2	1	100	20
Ethion	200	0.5	50	2	1	100	20
Fenamiphos	200	0.5	50	2	1	100	20
Fipronil	200	0.5	50	2	1	100	20
Malathion	200	0.5	50	2	1	100	20
Metalaxyl	200	0.5	50	2	1	100	20
Mevinphos	200	0.5	50	2	1	100	20
Molinate	200	0.5	50	2	1	100	20
Parathion Methyl	200	0.5	50	2	1	100	20
Propiconazole	200	0.5	50	2	1	100	20
Simazine	200	0.5	50	2	1	100	20
Terbuthylazine	200	0.5	50	2	1	100	20
Bromacil	400	0.5	50	4	1	100	40
Carbophenothion	400	0.5	50	4	1	100	40
Cyanazine	400	0.5	50	4	1	100	40
EPTC	400	0.5	50	4	1	100	40
Hexazinone	400	0.5	50	4	1	100	40
Imazalil	400	0.5	50	4	1	100	40
Metolachlor	400	0.5	50	4	1	100	40
Metribuzin	400	0.5	50	4	1	100	40
Naled	400	0.5	50	4	1	100	40
Norflurazon	400	0.5	50	4	1	100	40
Pendimethalin	400	0.5	50	4	1	100	40
Prometon	400	0.5	50	4	1	100	40
Sulfentrazone	400	0.5	50	4	1	100	40
Tebuconazole	400	0.5	50	4	1	100	40
Atrazine Desethyl	800	0.5	50	8	1	100	80
Azinphos Methyl	800	0.5	50	8	1	100	80
Demeton	800	0.5	50	8	1	100	80
Flumioxazin	800	0.5	50	8	1	100	80

Methamidophos	800	0.5	50	8	1	100	80
Monocrotophos	800	0.5	50	8	1	100	80

100 uL per 50 mL FV of 50 ppm NP istd added to each working std

VAL SPK CONCENTRATION WILL BE LOWERED IF FULL SENSITIVITY USED

INT vol mL	val spk FV mL	val spk ppb
0.04	100	40
0.04	100	40
0.04	100	40
0.04	100	40
0.04	100	40
0.04	100	40
0.04	100	40
0.04	100	40
0.04	100	40
0.04	100	40
0.04	100	40
0.04	100	40
0.04	100	40
0.04	100	40
0.04	100	40
0.04	100	80
0.04	100	80
0.04	100	80
0.04	100	80
0.04	100	80
0.04	100	80
0.04	100	80
0.04	100	80
0.04	100	80
0.04	100	80
0.04	100	80
0.04	100	80
0.04	100	80
0.04	100	80
0.04	100	80
0.04	100	80
0.04	100	80
0.04	100	80
0.04	100	80
0.04	100	80
0.04	100	160
0.04	100	160
0.04	100	160
0.04	100	160
0.04	100	160
0.04	100	160
0.04	100	160
0.04	100	160
0.04	100	160
0.04	100	160
0.04	100	160
0.04	100	160
0.04	100	160
0.04	100	160
0.04	100	160
0.04	100	160
0.04	100	320
0.04	100	320
0.04	100	320
0.04	100	320

0.04	100	320
0.04	100	320

ANALYTE	STOCK PPM	stock vol mL	L7 FV mL	L7 ppm	stock vol mL	L6 FV mL	L6 ppm
TRPH	8500	0.8	1	6800	0.6	1	5100
Ortho-Terphenyl	500	0.4	1	200	0.35	1	175
Nonatriacontane	500	0.4	1	200	0.35	1	175

purchased stock used as spike

ICV/CCV made like L4 from second source

separate mixes

ANALYTE	neat mg	sur stock vol mL	sur stock ppm	stock vol mL	surr int FV mL	sur int ppm	surr stock vol ml
Ortho-Terphenyl	50	10	5000	1	10	500	4
Nonatriacontane	50	10	5000	1	10	500	4

separate mixes

one mix

stock vol mL	L5 FV mL	L5 ppm	stock vol mL	L4 FV mL	L4 ppm	stock vol mL	L3 FV mL	L3 ppm
0.4	1	3400	0.3	1	2550	0.2	1	1700
0.3	1	150	0.2	1	100	0.1	1	50
0.3	1	150	0.2	1	100	0.1	1	50

surr spk fv mL	surr spk ppm
200	100
200	100

stock vol mL	L2 FV mL	L2 ppn	stock vol mL	L1 FV mL	L1 ppm
0.1	1	850	0.05	1	425
0.05	1	25	0.02	1	10
0.05	1	25	0.02	1	10

ANALYTE	neat mg	sur stock vol mL	sur stock ppm	stock vol mL	surr int FV mL	sur int ppm
Simazine-d7	10	10	1000	0.25	10	25
Terbufos-d10	10	100	100	2.5	10	25

separate mixes

one mix

ANALYTE	neat mg	sur stock vol mL	sur stock ppm
TMX	5	50	100
PCNB	5	50	100
DCB	5	50	100

SEPARATE

one mix

ANALYTE	neat mg	istd stock vol mL	istd stock ppm	istd stock vol mL	istd int FV mL	istd int ppm	istd int vol mL
Trifluralin-d14	10	10	1000	1	10	100	1
DCB-d5	10	10	1000	1	10	100	1
Alpha-BHC-d6	10	10	1000	1	10	100	1
TCB-d5	10	10	1000	1	10	100	1
HCB-d3	10	10	1000	1	10	100	1
DDT-d8	10	10	1000	1	10	100	1
Octachloronaphthalene	10	10	1000	1	10	100	1
Dicofol-d8						100	1

Dicofol-d8 purchased 100 ppm

one mix

all individual

ANALYTE	neat mg	istd stock vol mL	istd stock ppm	istd stock vol mL	istd int FV mL	istd int ppm	istd int vol mL
EPTC-d14	10	10	1000	0.5	10	50	2
Tributhyl Phosphate-d27	10	10	1000	0.5	10	50	2
Atrazine-d5	10	10	1000	0.5	10	50	2
Parathion Ethyl-d10	10	10	1000	0.5	10	50	2
Hexazinone-d6	10	10	1000	0.5	10	50	2

istd2 int FV mL	istd2 int ppm	istd int vol mL	istd spk FV mL	istd spk ppb	istd int vol mL	istd iblk FV mL	istd iblk ppb
2	50	1	100	1000	0.1	100	100
2	50	1	100	1000	0.1	100	100
2	50	1	100	1000	0.1	100	100
2	50	1	100	1000	0.1	100	100
2	50	1	100	1000	0.1	100	100
2	50	1	100	1000	0.1	100	100
2	50	1	100	1000	0.1	100	100
2	50	1	100	1000	0.1	100	100

istd spk FV mL	istd spk ppb	istd int vol mL	istd iblk FV mL	istd iblk ppb
200	500	0.2	100	100
200	500	0.2	100	100
200	500	0.2	100	100
200	500	0.2	100	100
200	500	0.2	100	100

ANALYTE	STOCK PPM	stock VOL mL	int fv mL	INT ppm	INT vol mL	L6 FV mL	L6 ppb	INT vol mL	L5 FV mL	L5 ppb
PCB-1221	1000	1	100	10	2.5	25	1000	1.875	25	750
PCB-1254	1000	1	100	10	2.5	25	1000	1.875	25	750
PCB-1232	1000	1	100	10	2.5	25	1000	1.875	25	750
PCB-1242	1000	1	100	10	2.5	25	1000	1.875	25	750
PCB-1248	1000	1	100	10	2.5	25	1000	1.875	25	750
PCB-1016	1000	1	100	10	2.5	25	1000	1.875	25	750
PCB-1260	1000	1	100	10	2.5	25	1000	1.875	25	750
Tetrachloro-m-xylene	100	1	100	1	2.5	25	100	1.875	25	75
DCB	100	1	100	1	2.5	25	100	1.875	25	75
PCNB	100	1	100	1	2.5	25	100	1.875	25	75

mixed together
separate mix

25 uL per 25 mL FV of 100 ppm CL istd added to each working std

ICV/CCV made like L4 from second source; no surr

additionally prepare individual 1016 and 1260 at 500 ppb as pattern checks

INT vol mL	L4 FV mL	L4 ppb	INT vol mL	L3 FV mL	L3 ppb	INT vol mL	L2 FV mL	L2 ppb	INT vol mL	L1 FV mL	L1 ppb
2.5	50	500	0.625	25	250	0.25	25	100	0.125	25	50
2.5	50	500	0.625	25	250	0.25	25	100	0.125	25	50
2.5	50	500	0.625	25	250	0.25	25	100	0.125	25	50
2.5	50	500	0.625	25	250	0.25	25	100	0.125	25	50
2.5	50	500	0.625	25	250	0.25	25	100	0.125	25	50
2.5	50	500	0.625	25	250	0.25	25	100	0.125	25	50
2.5	50	500	0.625	25	250	0.25	25	100	0.125	25	50
2.5	50	50	0.625	25	25	0.25	25	10	0.125	25	5
2.5	50	50	0.625	25	25	0.25	25	10	0.125	25	5
2.5	50	50	0.625	25	25	0.25	25	10	0.125	25	5

new level

stock VOL mL	spk fv mL	spk ppb
0.4	200	2000
0.4	200	2000
0.4	200	2000
0.4	200	2000
0.4	200	2000
0.4	200	2000
0.4	200	2000
0.4	200	200
0.4	200	200
0.4	200	200

separate spike
separate spike

ANALYTE	STOCK PPM	stock VOL mL	int fv mL	INT ppm	INT vol mL	L8 FV mL	L8 ppb	INT vol mL	L7 FV mL
Chlordane	1000	0.25	50	5	5	25	1000	3.75	25
Toxaphene	4000	0.3125	50	25	5	25	5000	3.75	25
Tetrachloro-m-xylene	100	0.125	25	0.5	5	25	100	3.75	25
DCB	100	0.125	25	0.5	5	25	100	3.75	25
PCNB	100	0.125	25	0.5	5	25	100	3.75	25

mixed together
individual stocks

25 uL per 25 mL FV of 100 ppm CL istd added to each working std

ANALYTE	ICV STOCK PPM	ICV stock VOL mL	ICV int fv mL	ICV INT ppm	ICV INT vol mL	ICV L5 FV mL	ICV L5 ppb
Chlordane	1000	0.125	25	5	2	50	200
Toxaphene	1000	0.625	25	25	2	50	1000

L7 ppb	INT vol mL	L6 FV mL	L6 ppb	INT vol mL	L5 FV mL	L5 ppb	INT vol mL	L4 FV mL	L4 ppb	INT vol mL	L3 FV mL
750	2.5	25	500	2	50	200	0.5	25	100	0.25	25
3750	2.5	25	2500	2	50	1000	0.5	25	500	0.25	25
75	2.5	25	50	2	50	20	0.5	25	10	0.25	25
75	2.5	25	50	2	50	20	0.5	25	10	0.25	25
75	2.5	25	50	2	50	20	0.5	25	10	0.25	25

L3 ppb	INT vol mL	L2 FV mL	L2 ppb	stock VOL mL	spk fv mL	spk ppb
50	0.1	25	20	0.2	200	1000
250	0.1	25	100	0.3	200	6000
5	0.1	25	2	0.4	200	200
5	0.1	25	2	0.4	200	200
5	0.1	25	2	0.4	200	200

separate spike
separate spike