**Table S4.** **Matrix effects assessed in LC-MS/MS and GC-MS/MS systems for all analytes. No matrix effect (ME) corresponds to |ΜΕ| <20%, Medium ME to 20%<|ΜΕ|<50% and Strong ME to |ΜΕ|>50%, respectively.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Analytes** | **No MEa** | **Medium MEb** | **Strong MEc** |
| LC-MS/MS | | | |
| Methamidophos, formetanate HCl, aldicarb sulfoxide, butoxycarboxim, aldicarb sulfone, nitenpyram, Oxamyl, Carbendazim, Methomyl, Flonicamid, Thiamethoxam, thiabendazole, Monocrotophos, dicrotophos, clothianidin, fenuron, Dimethoate, dioxacarb, mevinphos, Vamidothion, 3-hydroxycarbofuran, acetamiprid, Mexacarbate, thiacloprid, trichlorfon, tricyclazole, Butocarboxim, ethirimol, aldicarb, oxadixyl, carbetamide, pirimicarb, thidiazuron, thiophanate methyl, bendiocarb, propoxur, imazalil, carbofuran, Metribuzin, tebuthiuron, carbaryl, carboxin, simetryn, monolinuron, fluometuron, chlorotoluron, Prometon, secbumeton, metobromuron, Methabenzthiazuron, propham, flutriafol, spiroxamine, forchlorfenuron, isoproturon, diuron, Metalaxyl, fenpropimorph, ametryn, cycluron, Methoprotryne, chlorantraniliprole, pyrimethanil, Azoxystrobin, furalaxyl, linuron, diethofencarb, Ethofumesate, methiocarb, fenamidone, ethiprole, Boscalid, paclobutrazol, promecarb, mandipropamid, Prometryn, flutolanil, mepronil, terbutryn, Methoxyfenozide, cyproconazole, myclobutanil, Triadimefon, mefenacet, bromuconazole, Chloroxuron, triadimenol, fluquinconazole, Fenarimol, spirotetramat, fenhexamid, iprovalicarb, Triticonazole, butafenacil, etaconazole, bupirimate, Epoxiconazole, tetraconazole, flufenacet, Fenbuconazole, diflubenzuron, Cyprodinil, rotenone, flusilazole, fenoxycarb, neburon, tebufenozide, dimoxystrobin, picoxystrobin, Diclobutrazol, spinosyn A, kresoxim methyl, penconazole, tebuconazole, benalaxyl, Zoxamide, propiconazole, prochloraz, hexaconazole, metconazole, clofentezine, spinosyn D,  Hydramethylnon, triflumuron, thiobencarb, spinetoram, benzoximate, pencycuron, difenoconazole, Triflumizole, ipconazole, indoxacarb, trifloxystrobin, clethodim isomer II, emamectin-benzoate b1a, furathiocarb, buprofezin, tebufenpyrad, temephos, piperonyl butoxide, quinoxyfen, pyriproxyfen, Metaflumizone, hexythiazox, etoxazole, propargite, flufenoxuron, fenpyroximate, spirodiclofen, chlorfluazuron, fenazaquin, pyridaben, amitraz, fipronil, fluazinam, imidacloprid, dimethomorph,  Pyraclostrobin, fludioxonil, hexaflumuron, lufenuron | 164 | - | - |
| Nuarimol, fluoxastrobin | - | 2 | - |
| GC-MS/MS |  |  |  |
| Di-allate-1, Diazinon, Fenoxycarb, Hexachlorobenzene, Pentachloroanisole, Propachlor, Trifluralin | 7 | - | - |
| 2,4'-Methoxychlor, 4,4'-Dichlorobenzophenone, 4,4'-methoxychlor olefin, Acrinathrin-1, alpha-Endosulfan, Ametryn, Azinphos-ethyl, Azinphos-methyl, Azoxystrobin, Benfluralin, beta-Endosulfan, Bifenthrin, Boscalid, Bromfenvinfos-methyl, Bromfenvinphos, Bromophos-ethyl, Bromopropylate, Bupirimate, Carbophenothion, Carboxin, Carfentrazone-ethyl, Chlorbenside, Chlorfenapyr, Chlorfenson, Chlorfenvinphos, Chlorobenzilate, hlorpyrifos, Chlorthal-dimethyl, Chlorthiophos-3, Chlozolinate, cis-Chlordane, cis-Nonachlor, cis-Permethrine, Cycloate, Cyfluthrin-1, Cypermethrin-1, Cyprodinil, delta-BHC, Deltamethrin-1 (Tralomethrin deg.-1), Dieldrin, Difenoconazole-1, Diflufenican, Dimethomorph-1, Diphenamid, Edifenphos, Endosulfan sulfate, Endrin, Endrin ketone, EPN, Epoxiconazole, Ethion, Etofenprox, Famoxadone, Fenamiphos, Fenarimol, Fenoxaprop-ethyl, Fenoxaprop-P-ethyl), Fenpropathrin, Fenson, Fenvalerate-1, Fipronil, Fluazifop-P-butyl, Fluchloralin, Flucythrinate-1, Fludioxonil, Flufenacet, Fluquinconazole, Fluridone, Flusilazole, Flutolanil, Flutriafol, gamma-BHC (Lindane), Hexazinone, Indoxacarb, Iodofenphos, Isodrin, Isopropalin, Kresoxim-methyl, lambda-Cyhalothrin, Leptophos, Mefenpyr-diethyl, Metalaxyl (Mefenoxam), Metazachlor, Methoxychlor, Metribuzin, MGK 264-1, Mirex, Myclobutanil, Napropamide, Nitralin, Nitrofen, Norflurazon, o,p'-DDD, o,p'-DDE, o,p'-DDT, Oxadiazon, Oxyfluorfen, p,p'-DDD, p,p'-DDE, p,p'-DDT, Paclobutrazol, Parathion-methyl, Pentachloroanisole, Pentachlorobenzene, perthane, Phenothrin-2, Phorate, Phosalone, Phosmet, Piperonyl butoxide, Pirimiphos ethyl, Pretilachlor, Procymidone, Prodiamine, Profenofos, Prometryn, Propargite-1, Propisochlor, Prothiofos, Pyrazophos, Pyridaben, Pyridaphenthion, Pyriproxyfen, Quinalphos, Quizalofop-ethyl, (Quizalofop-P-ethyl), Resmethrin-2 (Bioresmethrin), Sulfotep, Sulprofos, tau-Fluvalinate-1, Tebuconazole, Tebufenpyrad, Tefluthrin, Terbufos, Terbuthylazine, Tetrachlorvinphos, Tetradifon, Tetramethrin-2, trans-Chlordane, trans-Nonachlor, Triadimenol-1, Triazophos, Trifloxystrobin, Vinclozolin |  | 142 |  |
| Acetochlor, alpha-BHC, beta-BHC, Bromophos methyl, Clomazone, Coumaphos, Ethoprophos, Fenchlorphos, Fenthion, Fonofos, Isazofos, Lenacil, Malathion, Metolachlor (S-Metolachlor), Penconazole, Pentachlorothioanisole, Pirimiphos-methyl, Prochloraz, Propyzamide, Pyraclofos, Tolclofos-methyl, trans-Permethrine, Tri-allate, Triflumizole |  |  | 24 |