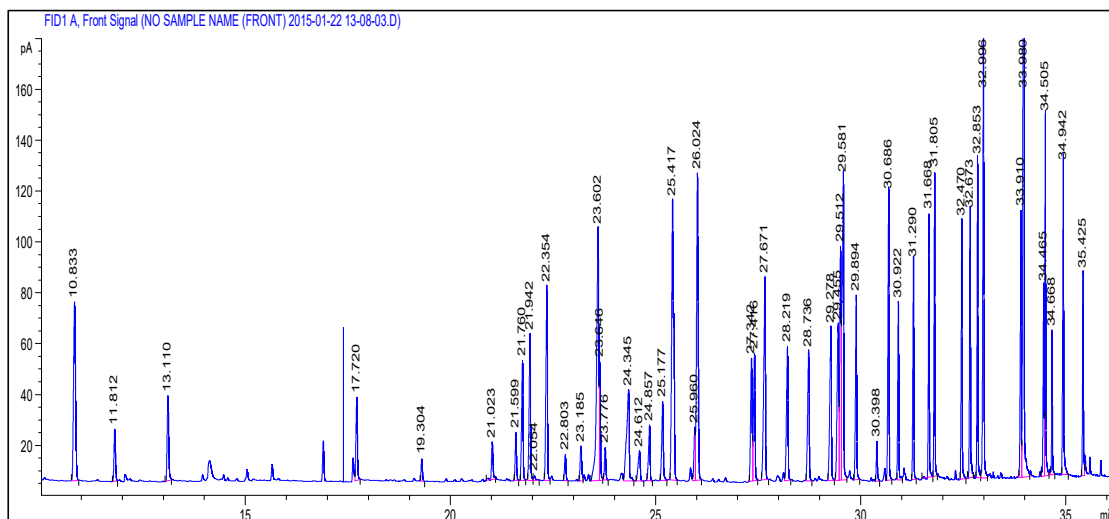




有机磷在NanoChrom BP-5MS上的分离与检测



Column: NanoChrom BP-5MS
 Dimension: 30m×0.25mm×0.25μm
 Oven: 60 °C (1 min.), 5 °C/min to 200 °C, 15 °C/min to 300 °C (5 min.)
 Carrier: Hydrogen, constant flow 1.5 mL/min
 Inlet: Split, 275 °C, 2.0 μL, splitless (0.75 min.)
 Detector: FID 325 °C
 Inject: U.S. EPA 8141 standard 1 μL

Peak	Compound	Retention time (min)	Resolution
1	敌敌畏 Dichlorvos	10.833	
2	六甲基磷酰胺 Hexamethyl phosphoramide (HMPA)	11.812	
3	1-溴-2-硝基苯 1-Bromo-2-nitrobenzene (I.S.)	13.11	
4	速灭磷异构体 Mevinphos isomers	17.72	
5	敌百虫 Trichlorfon	19.304	
6	焦磷酸四乙酯 Tetraethyl pyrophosphate (TEPP)	21.023	
7	硫磷嗪 Thionazin (Zinophos)	21.599	
8	内吸磷-O Demeton-O	21.76	4.26
9	灭克磷 Ethoprop	21.942	4.68
10	二溴磷 Naled	22.054	2.66
11	百治磷 Dicrotophos	22.354	
12	治螟磷 Sulfotepp	22.803	
13	久效磷 Monocrotophos	23.185	
14	甲拌磷 Phorate	23.602	
15	乐果 Dimethoate	23.776	3.95
16	西玛嗪 Simazine	24.345	
17	莠去津 Atrazine	24.612	4.51



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Peak	Compound	Retention time (min)	Resolution
18	敌杀磷Dioxathion	24.857	
19	特丁硫磷Terbufos	25.177	
20	地虫硫磷Fonophos (Dyfonate)	25.417	
21	二嗪磷Diazinon	25.96	
22	乙拌磷Disulfoton	26.024	1.67
23	磷胺Phosphamidon	27.342	
24	除线磷Dichlorofenthion	27.416	1.84
25	甲基氯吡啶Methyl chloropyrifos	27.671	
26	甲基对硫磷Methyl parathion	28.219	
27	皮蝇磷Ronnell	28.736	
28	杀螟硫磷Fenitrothion	29.278	
29	马拉硫磷Malathion	29.455	3.99
30	丙硫特普Aspon	29.512	1.47
31	氯吡啶Chloropyrifos	29.512	0.00
32	倍硫磷Fenthion	29.581	1.92
33	乙基对硫磷Ethyl parathion	29.581	0.00
34	壤虫磷Trichloronate	29.894	
35	毒虫畏Chlorfenvinphos	30.686	
36	克罗氧磷Crotoxyphos	30.922	
37	乐本松Stirophos	31.29	
38	丙硫磷Tokuthion	31.668	
39	DEF (from oxidation of MerphosIn theInjection port)	31.805	
40	丰索磷Fensulfothion	32.47	
41	乙硫磷Ethion	32.673	
42	硫丙磷Bolstar	32.853	
43	氨磺磷Famphur	32.996	
44	三硫磷Carbophenothion	32.996	0.00
45	获斯灭Phosmet	33.91	
46	苯硫磷EPN	33.98	2.49
47	对溴磷Leptophos	34.465	
48	甲基谷硫磷Methyl azinphos	34.505	1.72
49	磷酸三邻甲苯酯Tri-o-cresyl phosphate (TOCP)	34.668	
50	乙基谷硫磷Ethyl azinphos	34.942	
51	蝇毒磷Coumaphos	35.425	