

## 测试报告

样品信息			
样品名称	平菇	编号	SHZ-20230403-001
样品重量	/	剂型	/
收样日期	2023/04/03	测试期间	2023/04/03-2023/04/08
样品描述	/		
测试需求			
测试成分	抗蚜威、甲萘威、燕麦敌、腈菌唑、氟硅唑、氯苯嘧啶醇、禾草敌、噁虫威、噻虫胺、乙啶硫磷、磷胺、甲基嘧啶磷、氟环唑、乙硫磷、利谷隆、胺丙畏、丙溴磷		
参考标准			
参考标准	GB 23200.12-2016	标样	有
仪器信息			
测试仪器	高效液相色谱串联质谱仪	仪器型号	Xevo TQ-S micro

## ● 色谱条件:

色谱柱:	月旭 Ultimate® UHPLC AQ-C18 2.1×100mm, 1.8μm		
流动相:	时间	流动相 A: (0.1%甲酸水溶液) %	流动相 B: (乙腈) %
	0.00	99.0	1.0
	3.00	70.0	30.0
	6.00	60.0	40.0
	9.00	60.0	40.0
	15.00	40.0	60.0
	19.00	1.0	99.0
	23.00	1.0	99.0
25.00	99.0	1.0	
柱温:	40 °C		



流速:	0.4 mL/min
进样量:	5 $\mu$ L
注意事项	本次测试采用基质曲线。

● 流动相的配置:

流动相 A: 0.1%甲酸水溶液 (取 100 $\mu$ L 甲酸, 加水定容至 100mL)

流动相 B : 乙腈

● 质谱条件:

离子源: ESI

检测方式: MRM

干燥气: 氮气, 450°C, 流速: 1000L/Hr

碰撞气: 氩气

离子喷雾电压: 0.5kV

名称	母离子 (m/z)	子离子 (m/z)	Cone (V)	Collisio26n (V)	Polarity
抗蚜威	239.2	72.0	8	22	Positive
		85.1		26	
		182.1		16	
甲萘威	202.1	117.1	22	24	Positive
		127.1		26	
		145.1		8	
燕麦敌	270.0	86.1	26	14	Positive
		108.9		28	
		128.1		10	
腈菌唑	289.1	70.1	28	16	Positive
		125.1		28	
		151.0		24	
氟硅唑	316.1	81.0	32	26	Positive



		165.0		28	
		247.1		18	
氯苯嘧啶醇	331.0	81.1	48	32	Positive
		139.0		36	
		268.1		22	
禾草敌	188.1	55.0	24	22	Positive
		83.1		14	
		126.1		10	
噁虫威	224.1	81.1	16	30	Positive
		109.1		16	
		167.1		6	
噻虫胺	250.0	113.0	24	22	Positive
		132.0		12	
		169.0		12	
乙嘧硫磷	293.1	56.1	18	30	Positive
		125.1		28	
		265.1		16	
磷胺	300.1	72.1	40	30	Positive
		127.0		22	
		174.1		12	
甲基嘧啶磷	306.2	67.0	26	40	Positive
		108.1		30	
		164.2		22	
氟环唑	330.1	121.1	24	18	Positive
		141.1		14	
乙硫磷	385.0	143.0	22	22	Positive
		171.0		14	
		199.0		8	
利谷隆	249.0	62.1	244	12	Positive
		169.1		16	
		182.1		14	



胺丙畏	282.2	138.0	16	18	Positive
		156.0		8	
		195.0		10	
丙溴磷	372.9	96.9	44	36	Positive
		302.9		16	
		344.9		10	

### ● 样品溶液的配制：

样品溶液：称取 20 g 样品（精确到 0.01 g）于 80 mL 离心管中，加入 40 mL 乙腈，15000 r/min 匀浆提取 1 min，加入 5 g 氯化钠，再匀浆提取 1 min，4200 r/min 离心 5 min，取上清液 20 mL，40℃ 水浴旋转浓缩至 1 mL 左右，备用。

Carb/NH<sub>2</sub> 固相萃取柱（500mg/1g，6 mL），再加入约 2 cm 高的无水硫酸钠，4 mL 乙腈-甲苯活化。

备用液过柱，收集。

2 mL 乙腈-甲苯淋洗，重复三次并收集。

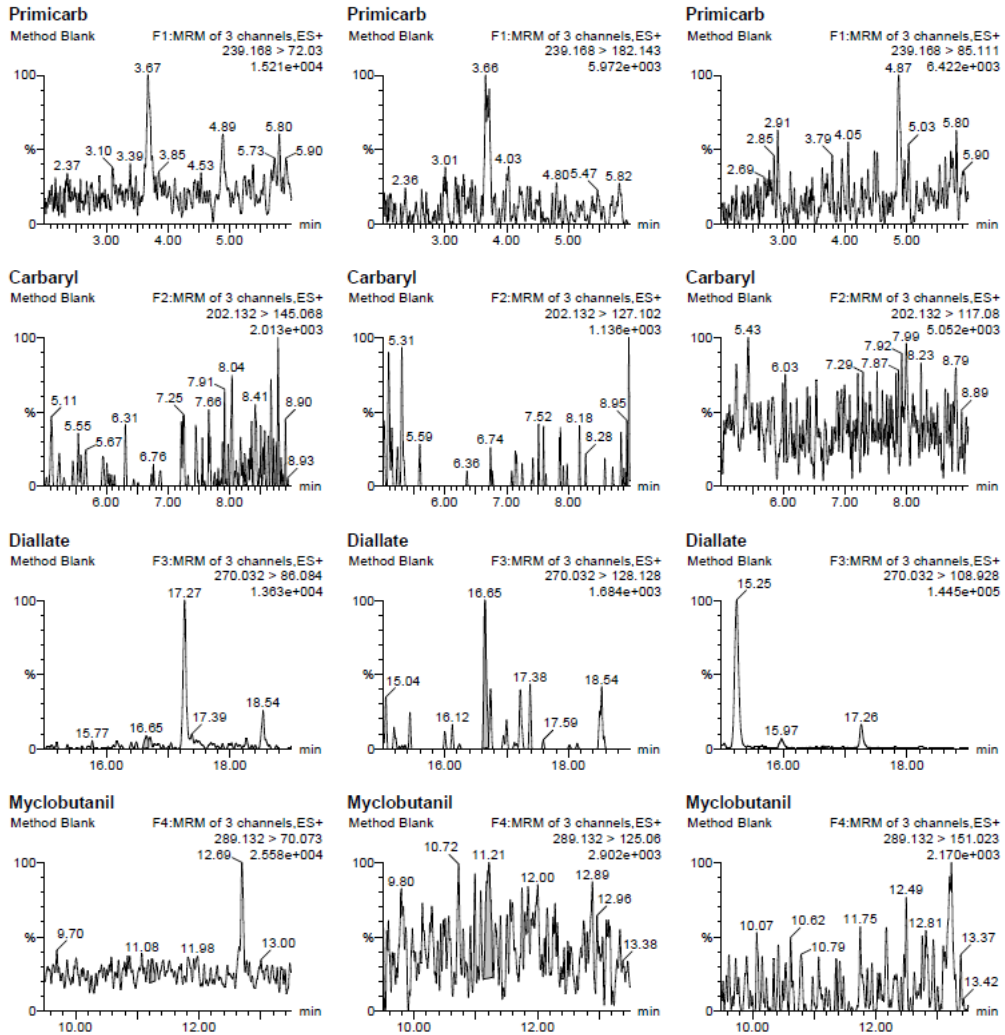
25 mL 乙腈-甲苯洗脱，收集。

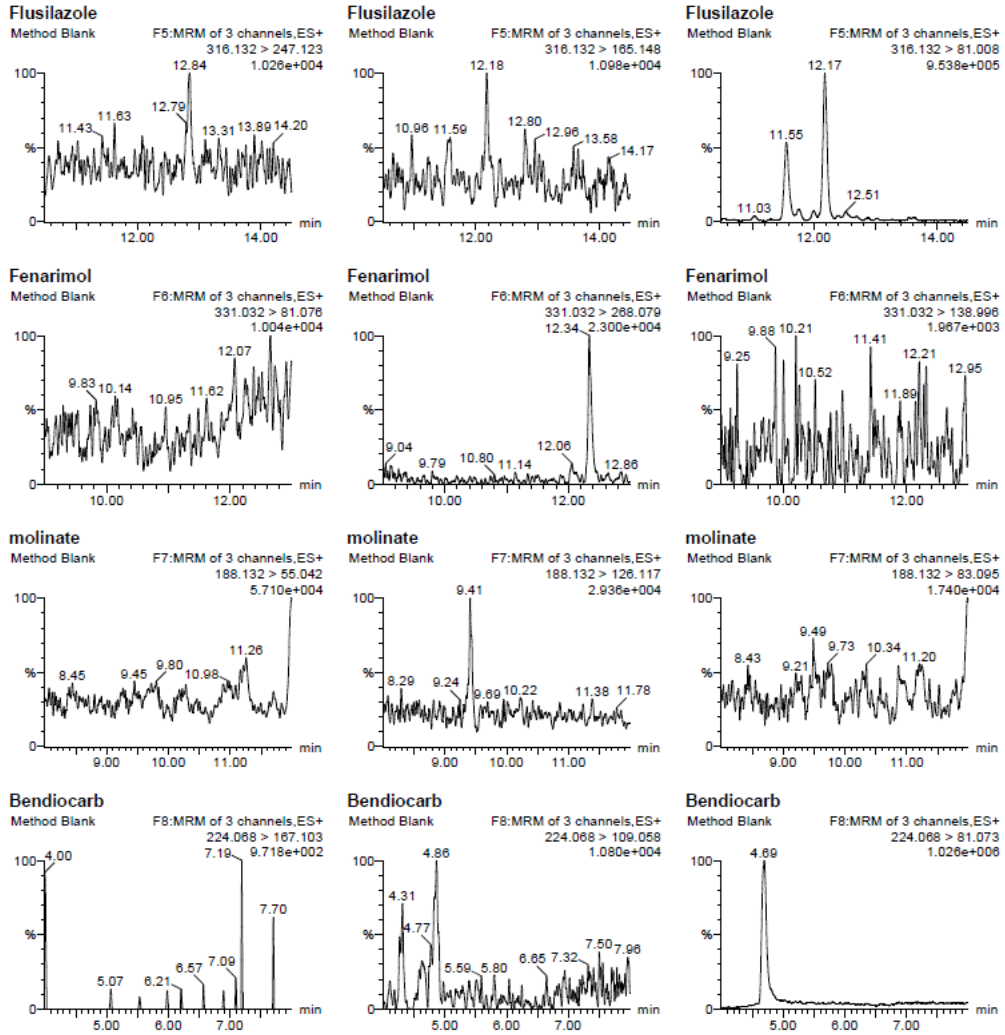
合并收集液于 40℃ 旋转浓缩至约 0.5 mL，于 45℃ 氮吹至根干，用 1 mL 乙腈-水溶液溶解残渣，过 0.22 μm 滤膜，上机分析。

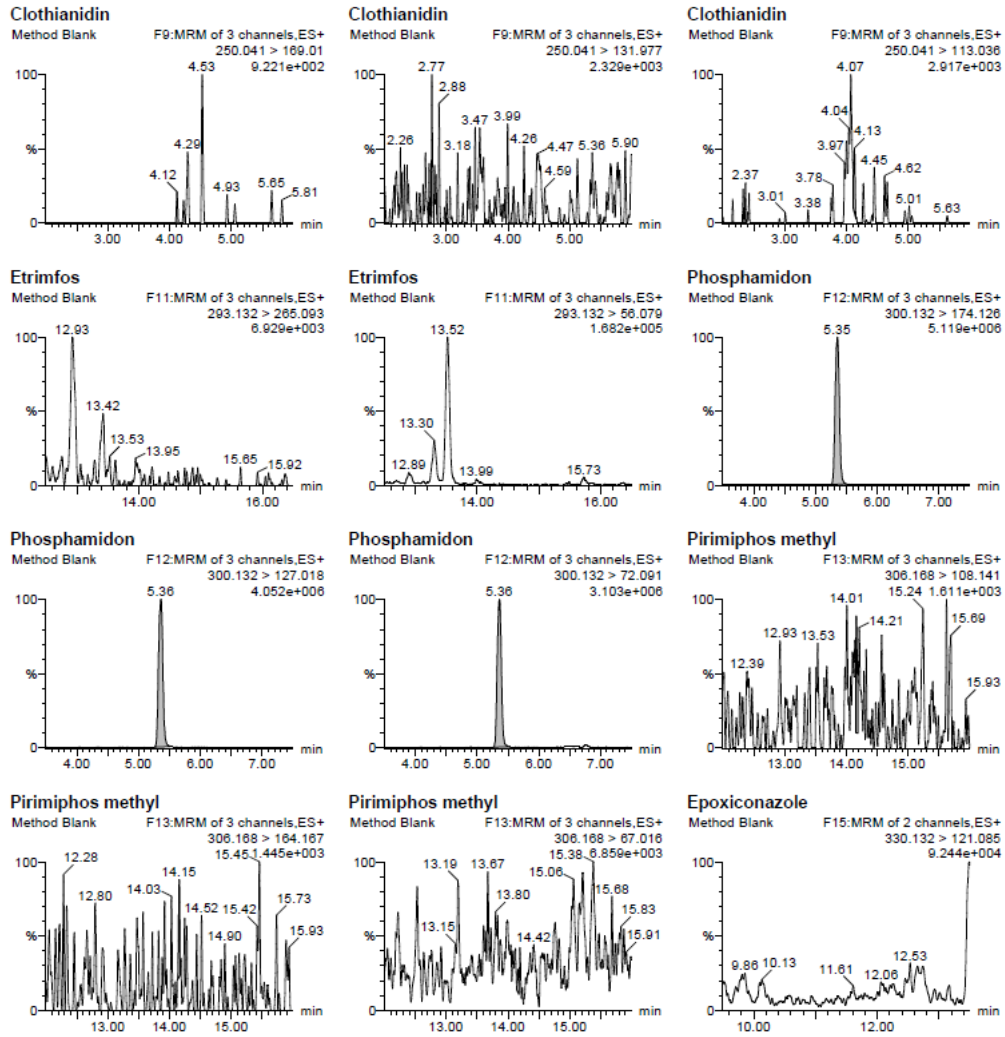
### 谱图和数据

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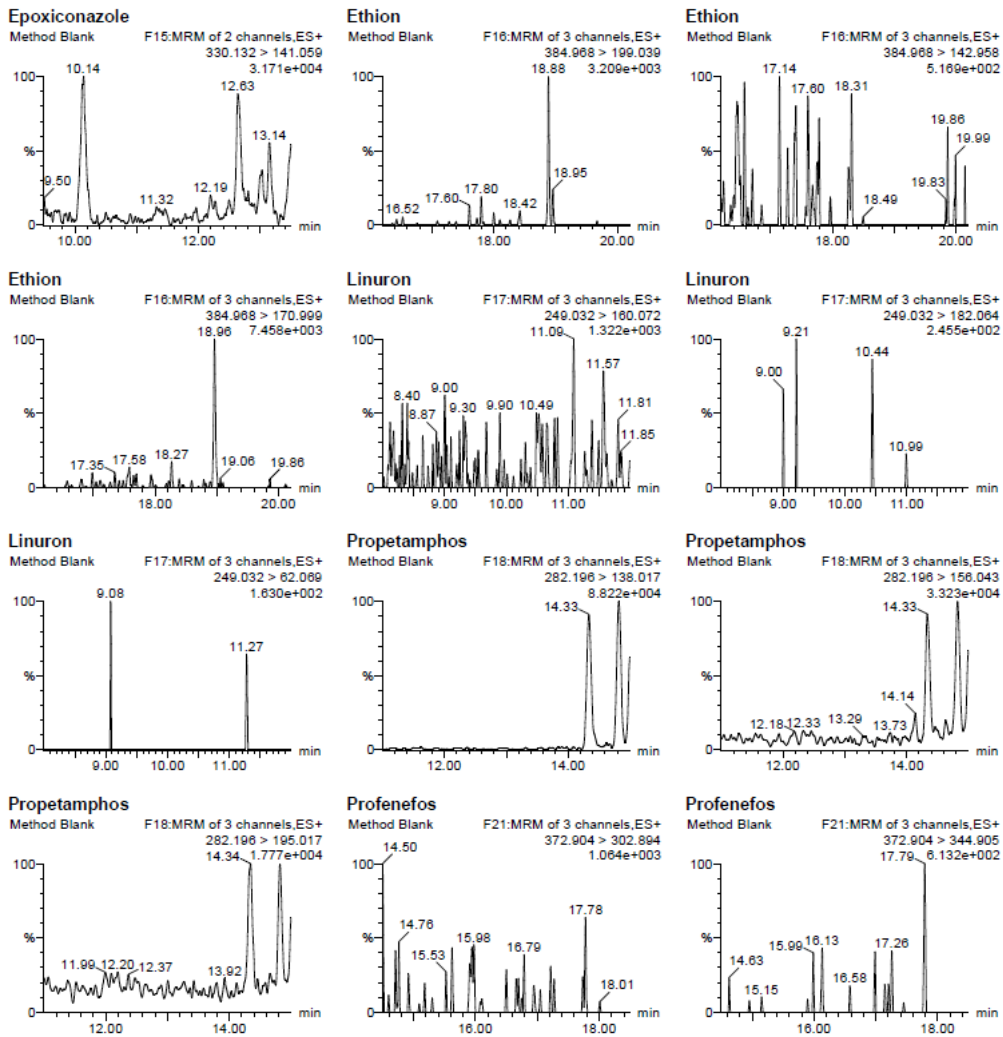












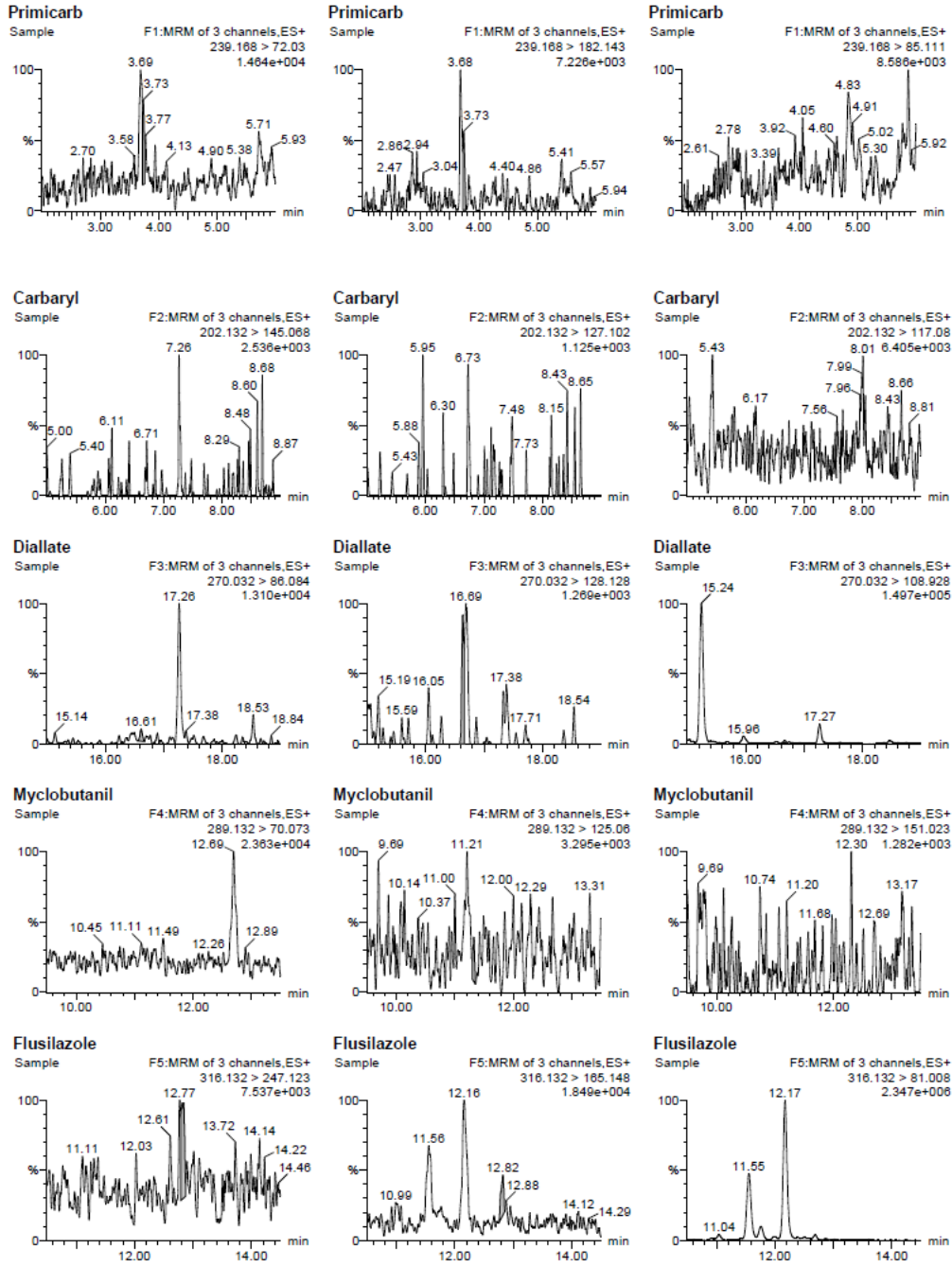
Sample Text	Name	Trace	RT	Area	Primar...	ng/mL	1° Ratio (A...	2° Ratio...	plate a...
Method Blank	Primicarb	239.168 ...							
Method Blank	Carbaryl	202.132 ...	6.76	4.776	db	0.004	2.579	0.354	22062...
Method Blank	Diallate	270.032 ...	16.65	67.786	bd	0.110	0.868	0.600	17357...
Method Blank	Myclobutanil	289.132 ...	11.24	199.710	bd	0.003	0.979	9.534	43958...

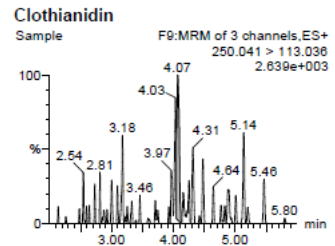
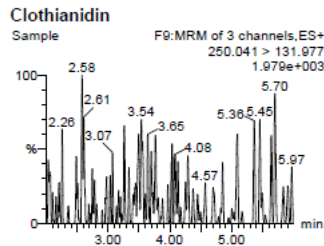
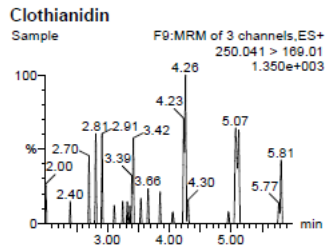
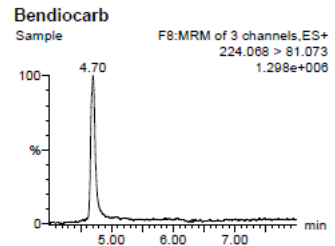
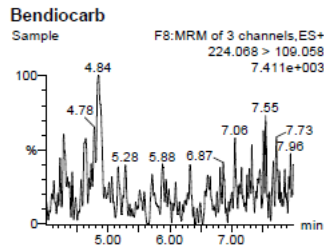
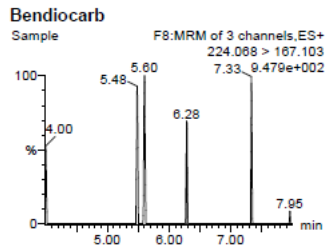
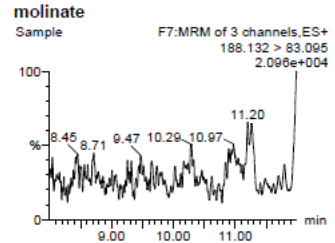
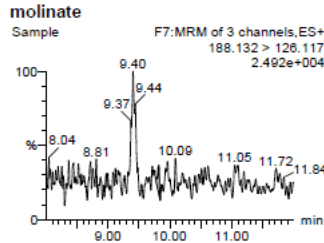
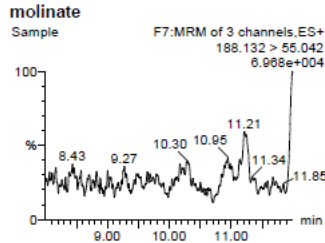
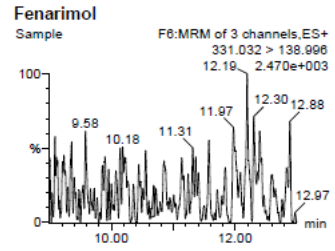
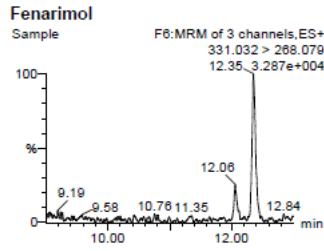
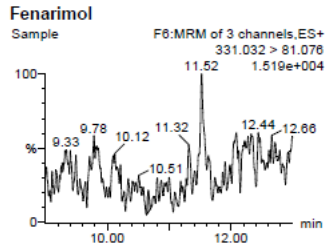
Sample Text	Name	Trace	RT	Area	Primar...	ng/mL	1° Ratio (A...	2° Ratio...	plate a...
Method Blank	Flusilazole	316.132 ...							
Method Blank	Fenarimol	331.032 ...	10.78	29.994	bb	0.008	1.003	1.102	29443...
Method Blank	molinate	188.132 ...	9.84	82.610	bb	0.052	1.424	1.707	15410...
Method Blank	Bendiocarb	224.068 ...	6.21	2.063	bb	0.001	0.322	0.008	12444...
Method Blank	Clothianidin	250.041 ...	4.12	3.867	bb	0.003	0.239	0.119	53042...
Method Blank	Etrinfos	293.132 ...							
Method Blank	Phosphamidon	300.132 ...	5.35	385435.438	bb	0.622	1.226	1.668	24212...
Method Blank	Pirimiphos m...	306.168 ...	14.16	29.937	dd	0.001	1.730	1.339	33758...
Method Blank	Epoxiconazole	330.132 ...							
Method Blank	Ethion	384.968 ...	18.10	2.139	bb	0.006	1.086	0.103	99836...
Method Blank	Linuron	249.032 ...	9.54	7.346	db	0.012			11764...
Method Blank	Propetamphos	282.196 ...							
Method Blank	Profenefos	372.904 ...							

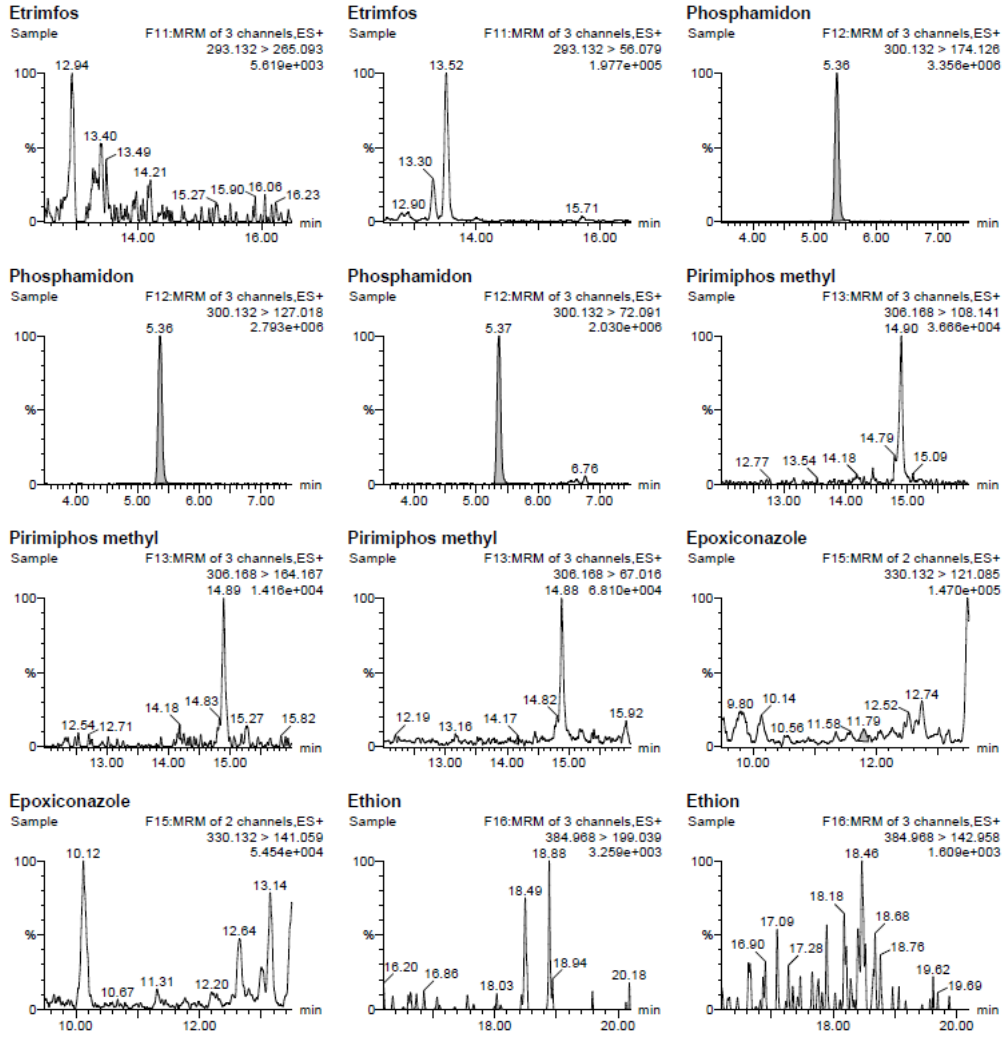
(2) 样品溶液

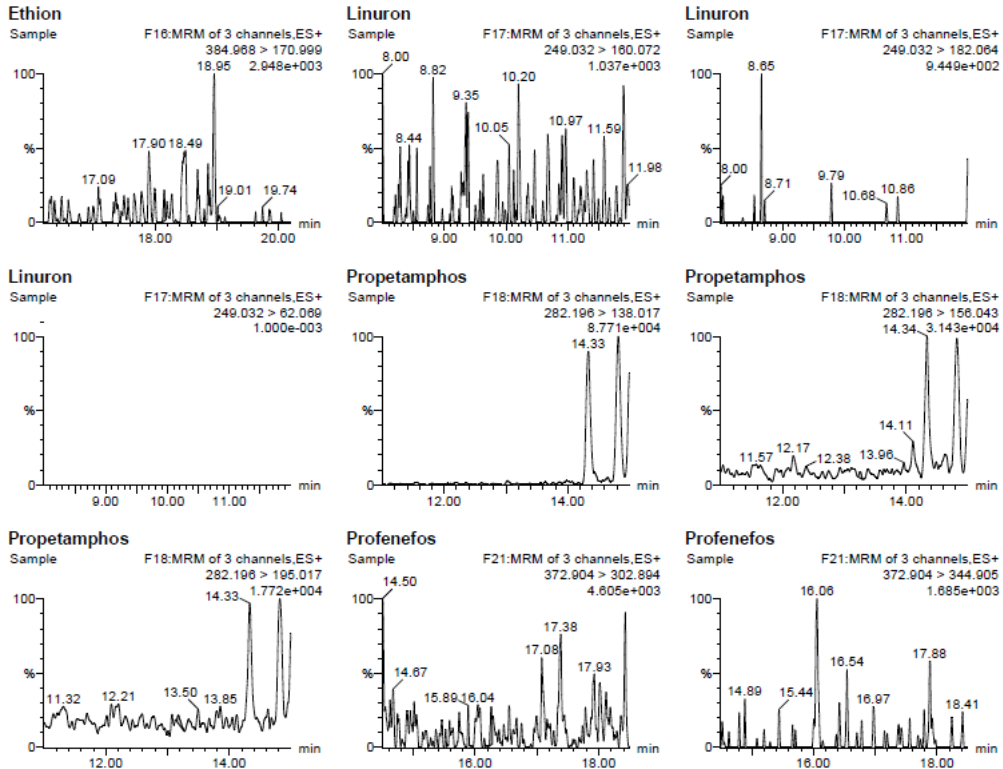










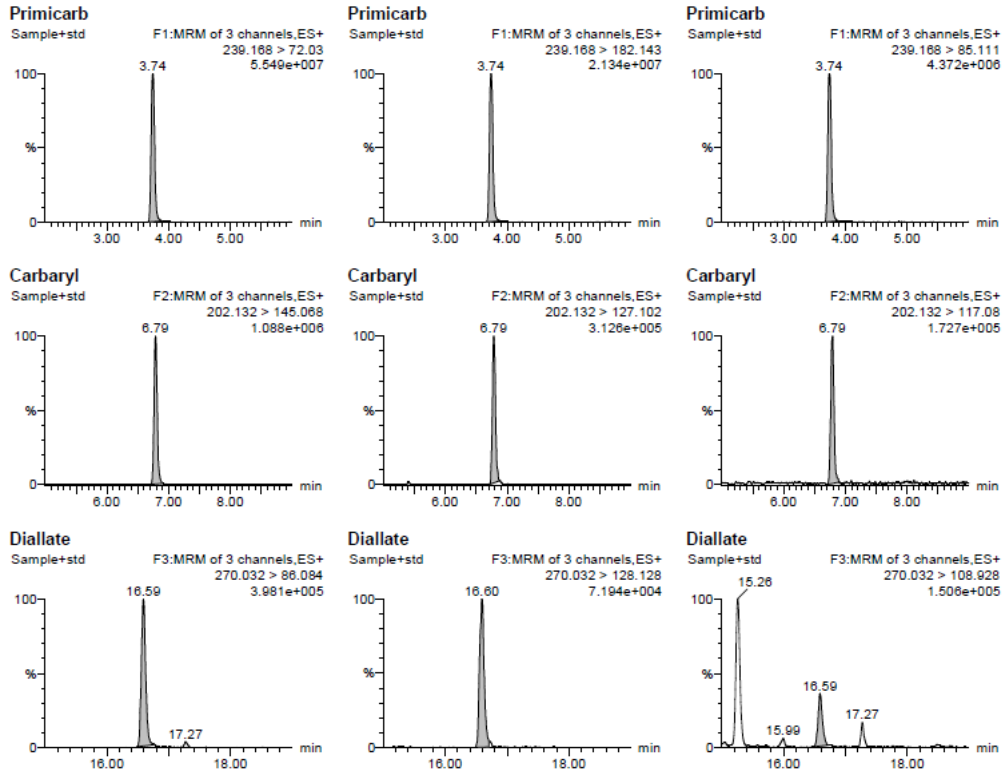


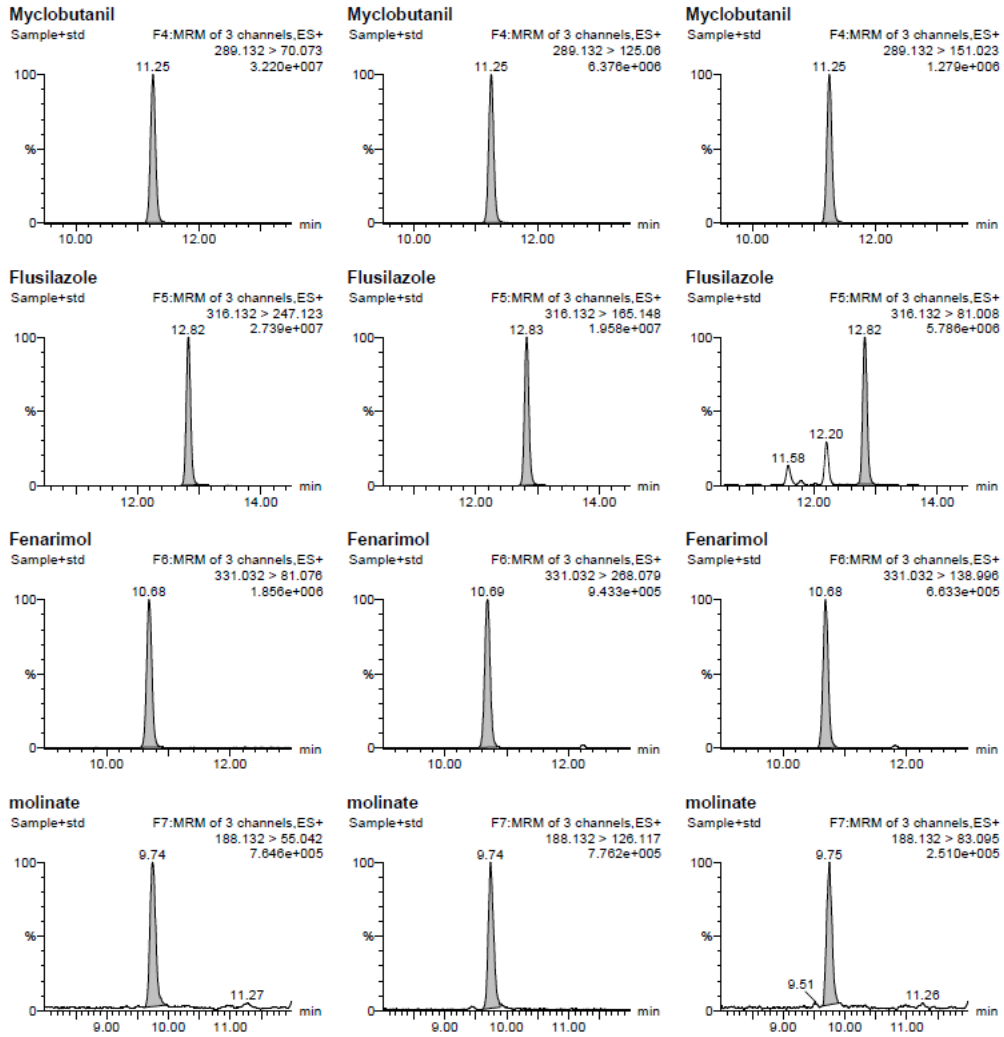
Sample Text	Name	Trace	RT	Area	Primar...	ng/mL	1° Ratio (A...	2° Ratio...	plate a...
Sample	Primicarb	239.168 ...	3.73	243.900	dd	0.004	1.837	9.849	21915...
Sample	Carbaryl	202.132 ...	6.82	3.230	bd	0.003		0.153	15022...
Sample	Diallate	270.032 ...	16.61	50.171	bb	0.081	1.089	0.383	13535...
Sample	Myclobutanil	289.132 ...	11.29	30.396	bb	0.001	0.902	6.728	15318...
Sample	Flusilazole	316.132 ...	12.83	330.325	dd	0.008	1.128	0.254	77437...
Sample	Fenarimol	331.032 ...	10.66	69.976	bb	0.020	1.293	3.746	10058...
Sample	molinate	188.132 ...	9.69	96.940	db	0.061	0.665		58416...
Sample	Bendiocarb	224.068 ...	6.28	10.672	bb	0.003		0.017	19028...
Sample	Clothianidin	250.041 ...	4.05	2.013	bb	0.002	0.078	0.019	37766...
Sample	Etrinfos	293.132 ...	14.50	6.718	db	0.000		0.140	47759...
Sample	Phosphamidon	300.132 ...	5.36	238047.219	bb	0.384	1.203	1.685	31892...
Sample	Pirimiphos m...	306.168 ...	14.18	15.009	bb	0.000	0.546	0.146	15647...
Sample	Epoxiconazole	330.132 ...	11.79	1066.589	bd	0.033			24066...
Sample	Ethion	384.968 ...	18.10	1.836	bb	0.005	0.983	0.124	99756...
Sample	Linuron	249.032 ...	9.58	4.145	bb	0.007			22033...
Sample	Propetamphos	282.196 ...	13.18	41.968	bd	0.075	0.777	0.743	49419...

Sample Text	Name	Trace	RT	Area	Primar...	ng/mL	1° Ratio (A...	2° Ratio...	plate a...
Sample	Profenefos	372.904 ...	16.26	32.379	bd	0.051	10.578		24983...

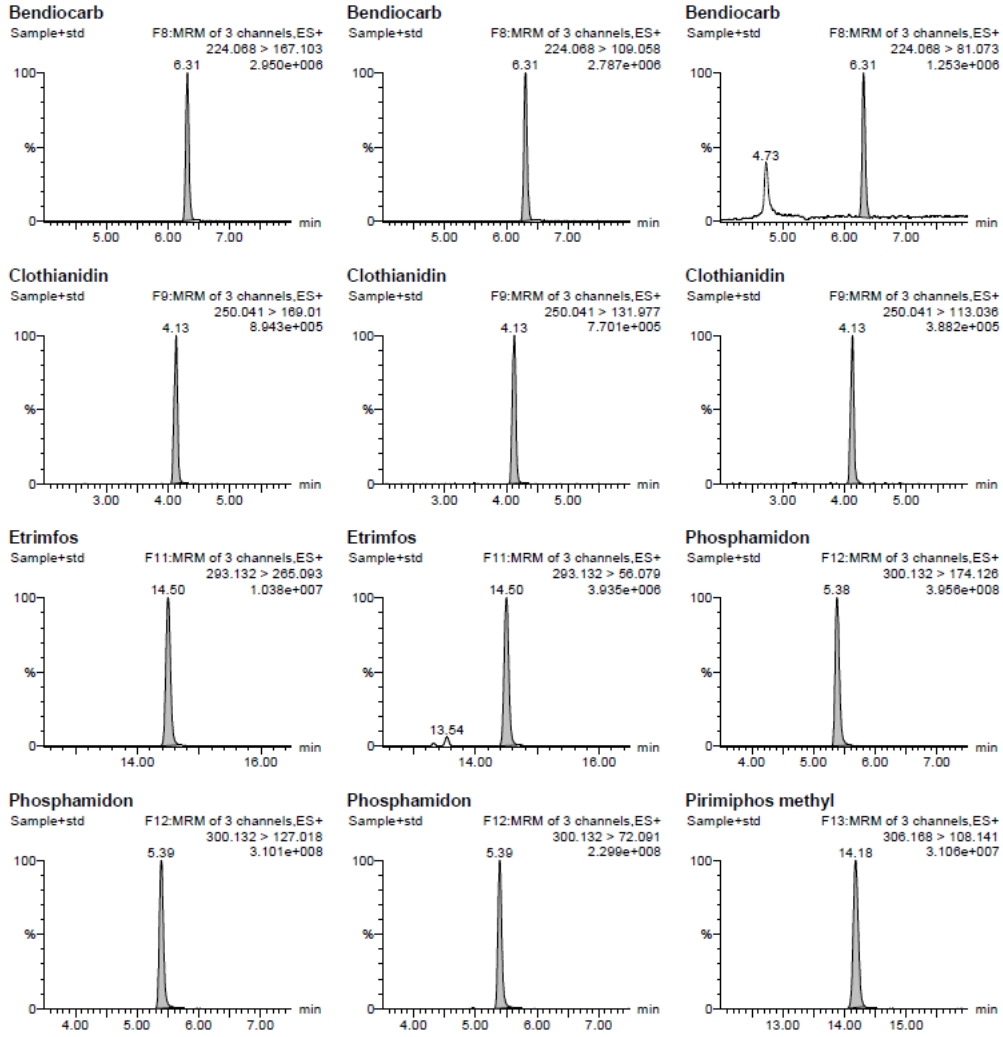
(3) 50 ng/mL 基质曲线

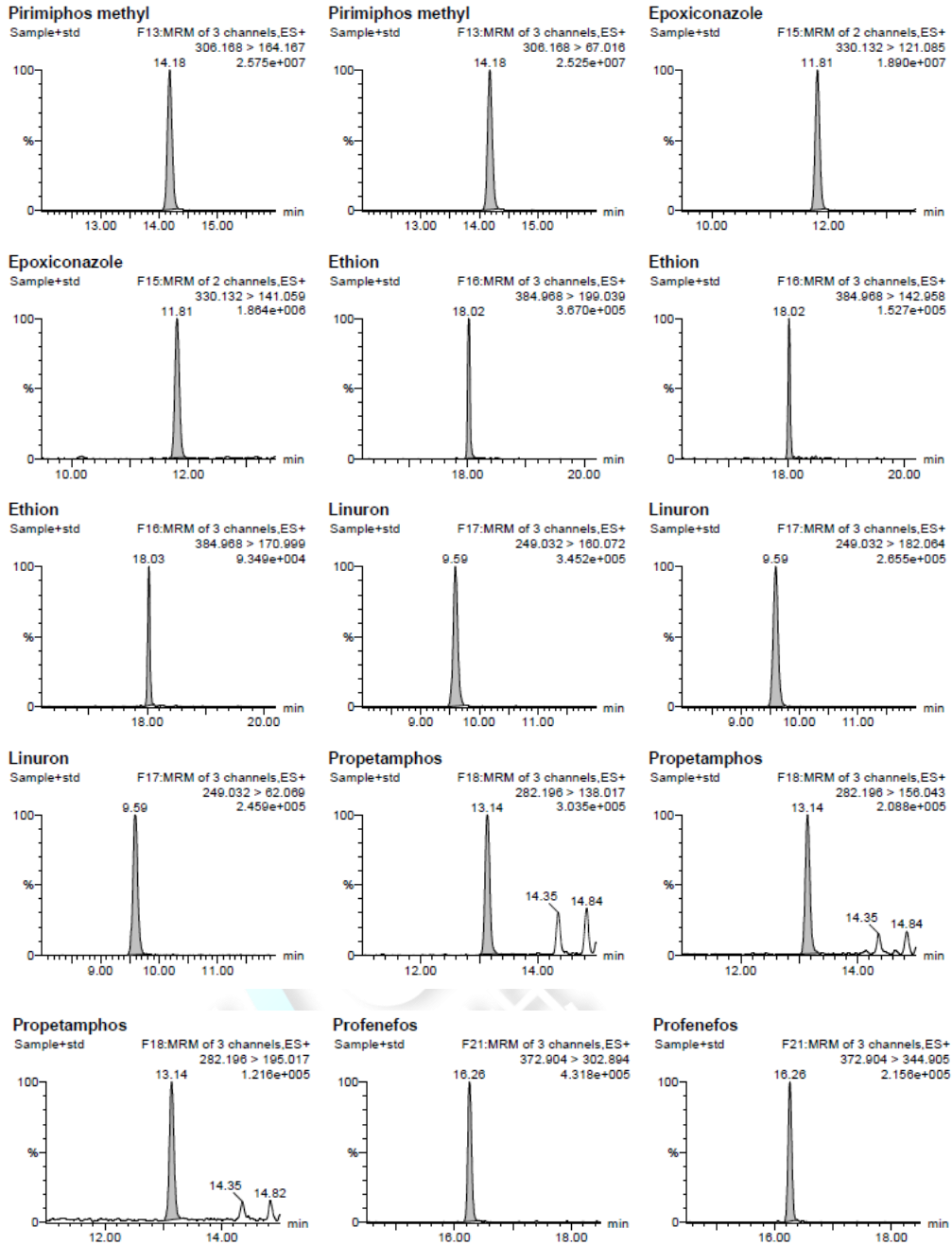








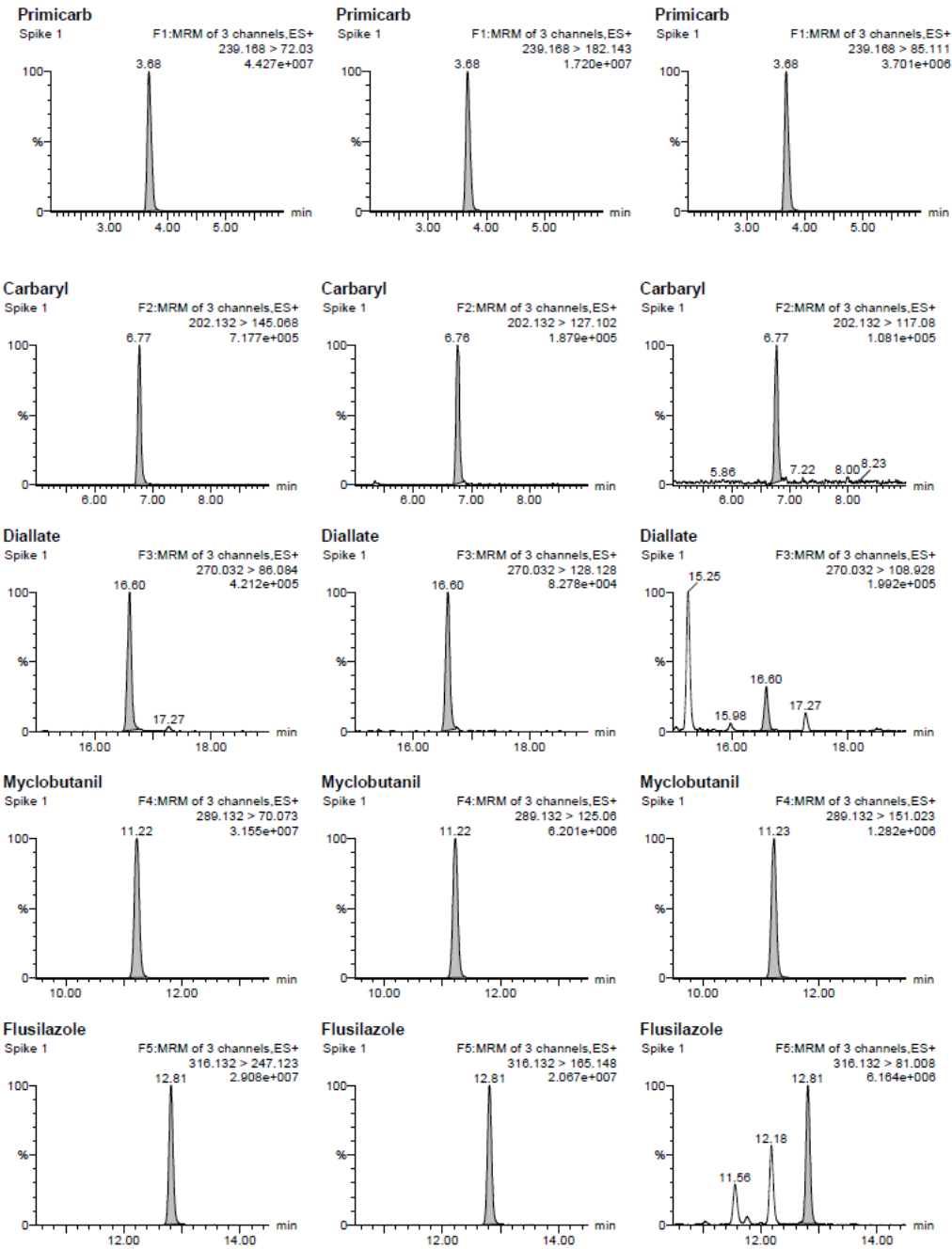


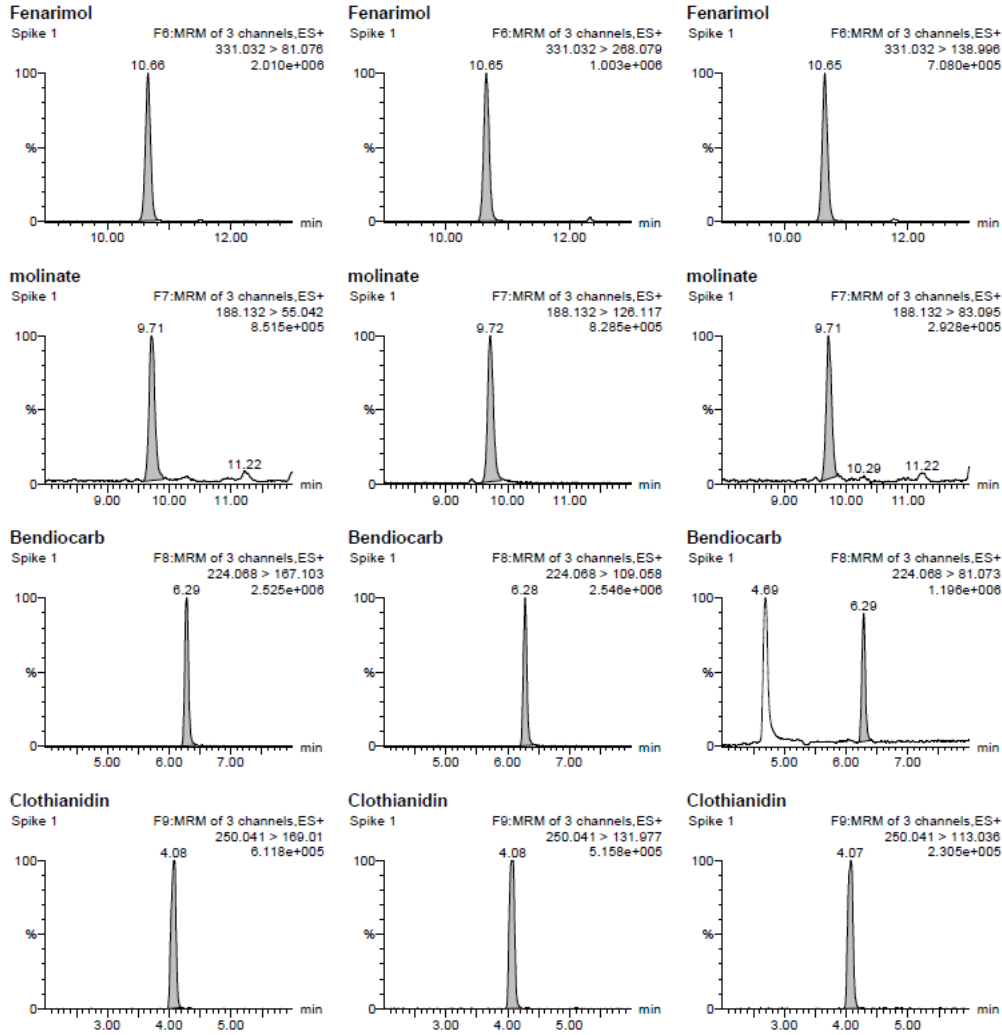


Sample Text	Name	Trace	RT	Area	Primar...	ng/mL	1 <sup>o</sup> Ratio (A...	2 <sup>o</sup> Ratio...	plate a...
Sample+std	Primicarb	239.168 ...	3.74	3439862.750	bb	50.000	2.585	12.366	20527...
Sample+std	Carbaryl	202.132 ...	6.79	61098.723	bb	50.000	3.564	6.004	90197...
Sample+std	Diallate	270.032 ...	16.59	30781.957	bb	50.000	5.136	7.500	35126...
Sample+std	Myclobutanil	289.132 ...	11.25	2957143.500	bb	50.000	5.102	25.216	90172...
Sample+std	Flusilazole	316.132 ...	12.62	2195228.000	bb	50.000	1.383	4.668	15527...
Sample+std	Fenarimol	331.032 ...	10.68	179166.078	bb	50.000	1.901	2.811	80421...
Sample+std	molinate	188.132 ...	9.74	79271.875	bb	50.000	1.069	3.352	46809...
Sample+std	Bendiocarb	224.068 ...	6.31	171290.375	bb	50.000	1.038	2.403	59089...
Sample+std	Clothianidin	250.041 ...	4.13	55440.508	bb	50.000	1.096	2.342	58628...
Sample+std	Etrinfos	293.132 ...	14.50	887786.250	bb	50.000	2.619	16833...	
Sample+std	Phosphamidon	300.132 ...	5.38	30984342.0...	bb	50.000	1.320	1.916	27863...
Sample+std	Pirimiphos m...	306.168 ...	14.18	2835799.000	bb	50.000	1.220	1.249	15456...
Sample+std	Epoxiconazole	330.132 ...	11.81	1625803.625	bb	50.000	9.966		11847...
Sample+std	Ethion	384.968 ...	18.02	17631.346	bb	50.000	2.836	4.368	73365...
Sample+std	Linuron	249.032 ...	9.59	30417.141	bb	50.000	1.207	1.332	88230...
Sample+std	Propetamphos	282.196 ...	13.14	27846.760	bb	50.000	1.480	2.628	11340...
Sample+std	Profenofos	372.904 ...	16.26	31761.482	bb	50.000	2.085		29525...

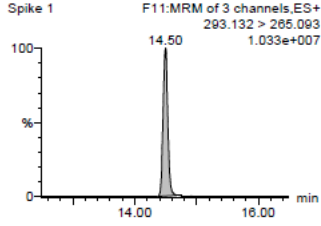


(4) 样品加标, 10 ng/mL。

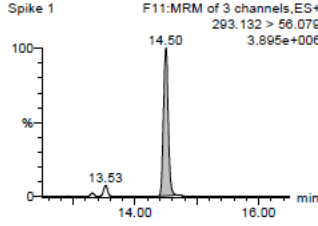




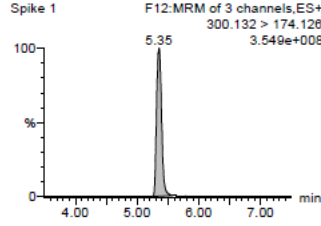
Etrifos



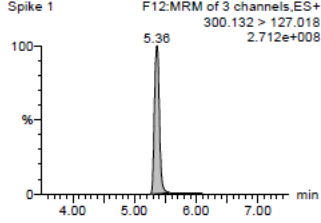
Etrifos



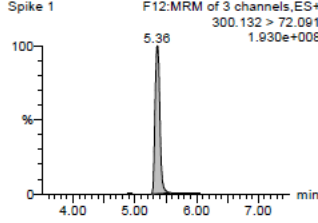
Phosphamidon



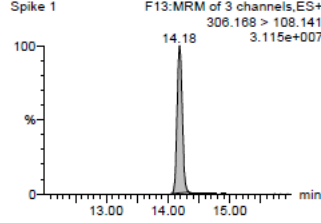
Phosphamidon



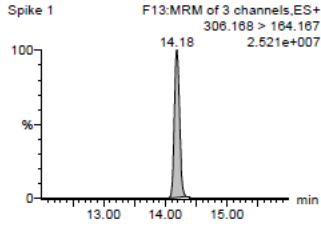
Phosphamidon



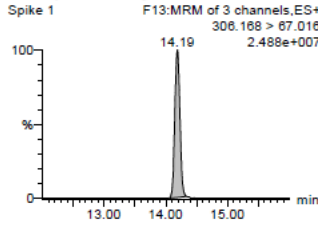
Pirimiphos methyl



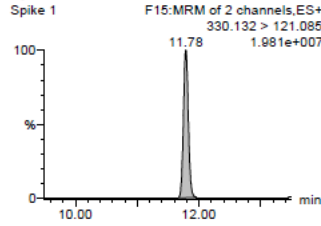
Pirimiphos methyl



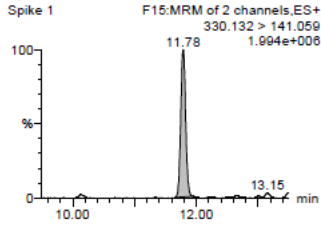
Pirimiphos methyl



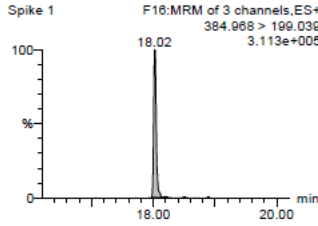
Epoxiconazole



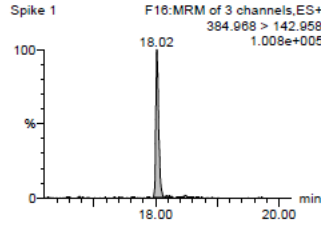
Epoxiconazole

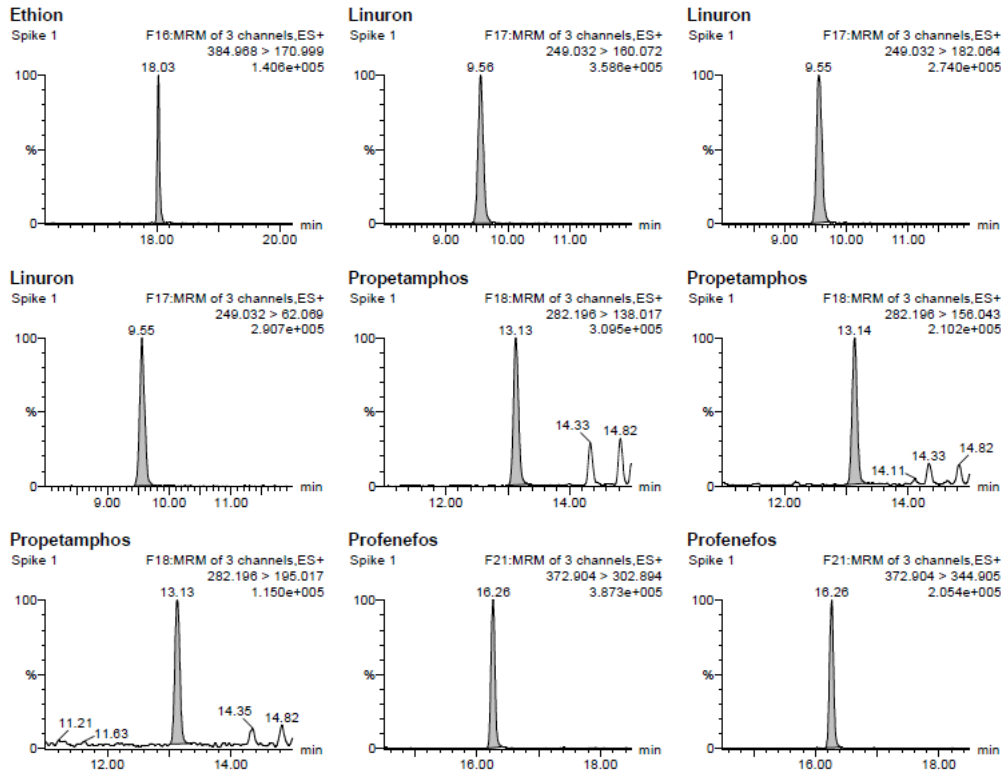


Ethion



Ethion





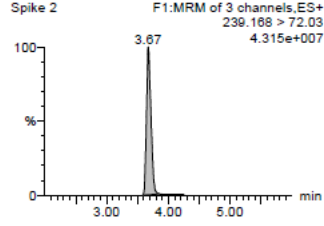
Sample Text	Name	Trace	RT	Area	Primar...	ng/mL	1° Ratio (A...	2° Ratio...	plate a...
Spike 1	Primicarb	239.168 ...	3.68	3518607.500	bb	51.145	2.523	11.978	23034...
Spike 1	Carbaryl	202.132 ...	6.77	45564.773	MM	37.288	3.574	6.491	89080...
Spike 1	Diallate	270.032 ...	16.60	32884.680	bb	53.416	4.817	6.967	45732...
Spike 1	Myclobutanil	289.132 ...	11.22	3115058.500	bb	52.670	5.161	25.076	77153...
Spike 1	Flusilazole	316.132 ...	12.81	2339255.000	bb	53.280	1.377	4.697	16392...
Spike 1	Fenarimol	331.032 ...	10.66	190063.031	bb	53.041	1.886	2.763	12700...
Spike 1	molinat	188.132 ...	9.71	91293.766	bd	57.583	1.060	3.226	58483...
Spike 1	Bendiocarb	224.068 ...	6.29	175495.188	bb	51.227	1.075	2.640	54089...
Spike 1	Clothianidin	250.041 ...	4.08	55374.684	bb	49.941	1.088	2.499	18445...
Spike 1	Etrifos	293.132 ...	14.50	882425.500	bb	49.698	2.612	2.1565...	
Spike 1	Phosphamidon	300.132 ...	5.35	32297614.0...	bb	52.119	1.323	1.915	17406...
Spike 1	Pirimiphos m...	306.168 ...	14.18	2909468.750	bb	51.299	1.216	1.261	14131...
Spike 1	Epoxiconazole	330.132 ...	11.78	1751269.125	bb	53.859	9.984		11678...
Spike 1	Ethion	384.968 ...	18.02	14361.167	bb	40.726	2.798	2.431	10463...
Spike 1	Linuron	249.032 ...	9.56	34041.645	bb	55.958	1.244	1.306	74694...
Spike 1	Propetamphos	282.196 ...	13.13	28586.348	bb	51.328	1.496	2.764	11993...

Sample Text	Name	Trace	RT	Area	Primar...	ng/mL	1° Ratio (A...	2° Ratio...	plate a...
Spike 1	Profenefos	372.904 ...	16.26	28438.955	bb	44.770	1.878		26193...

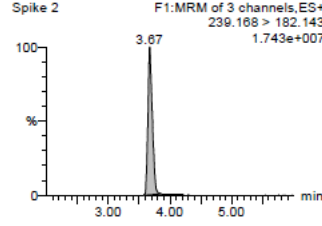




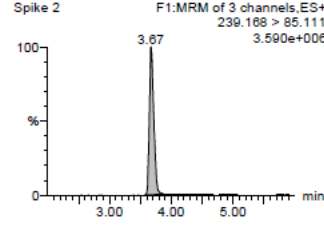
Primicarb



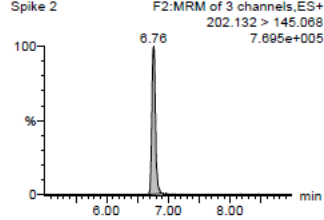
Primicarb



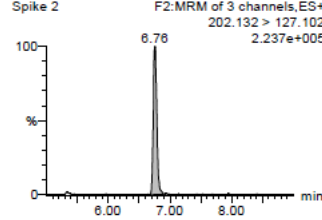
Primicarb



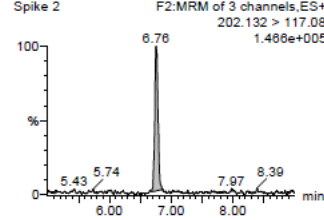
Carbaryl



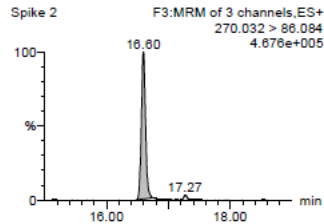
Carbaryl



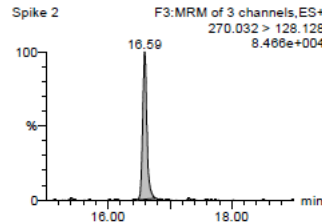
Carbaryl



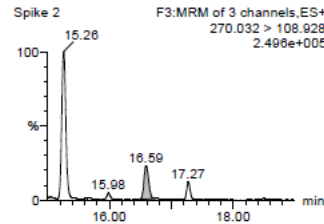
Diallate



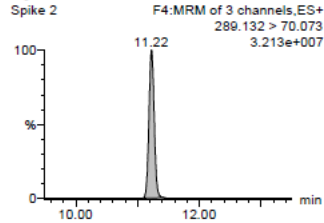
Diallate



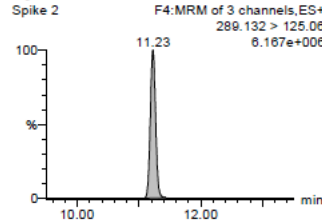
Diallate



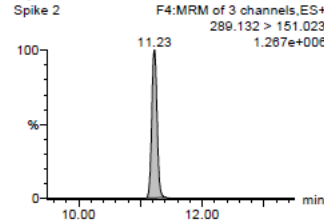
Myclobutanil



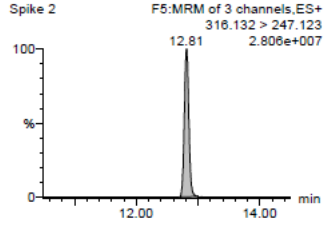
Myclobutanil



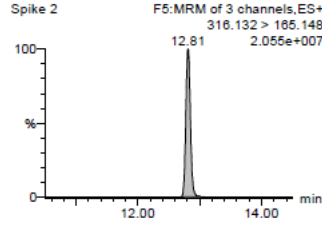
Myclobutanil



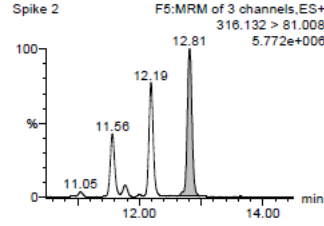
Flusilazole



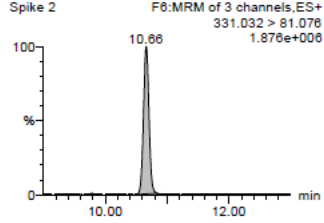
Flusilazole



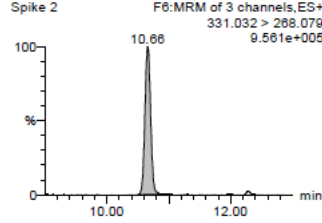
Flusilazole



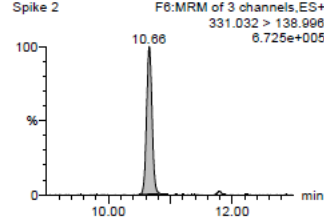
Fenarimol



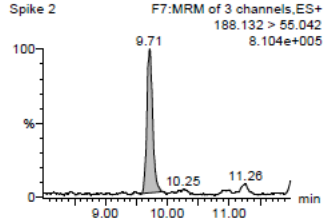
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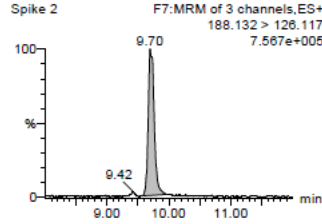
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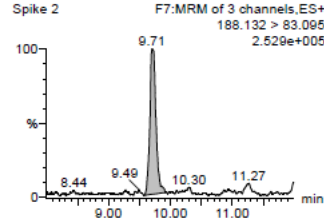
molinate



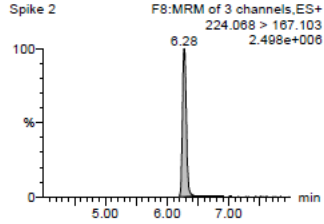
molinate



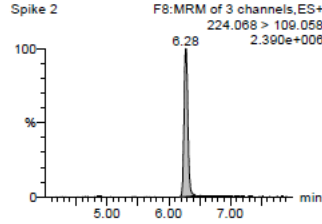
molinate



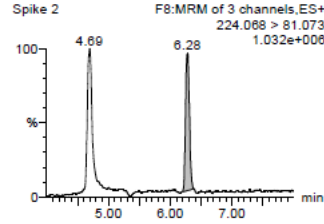
Bendiocarb

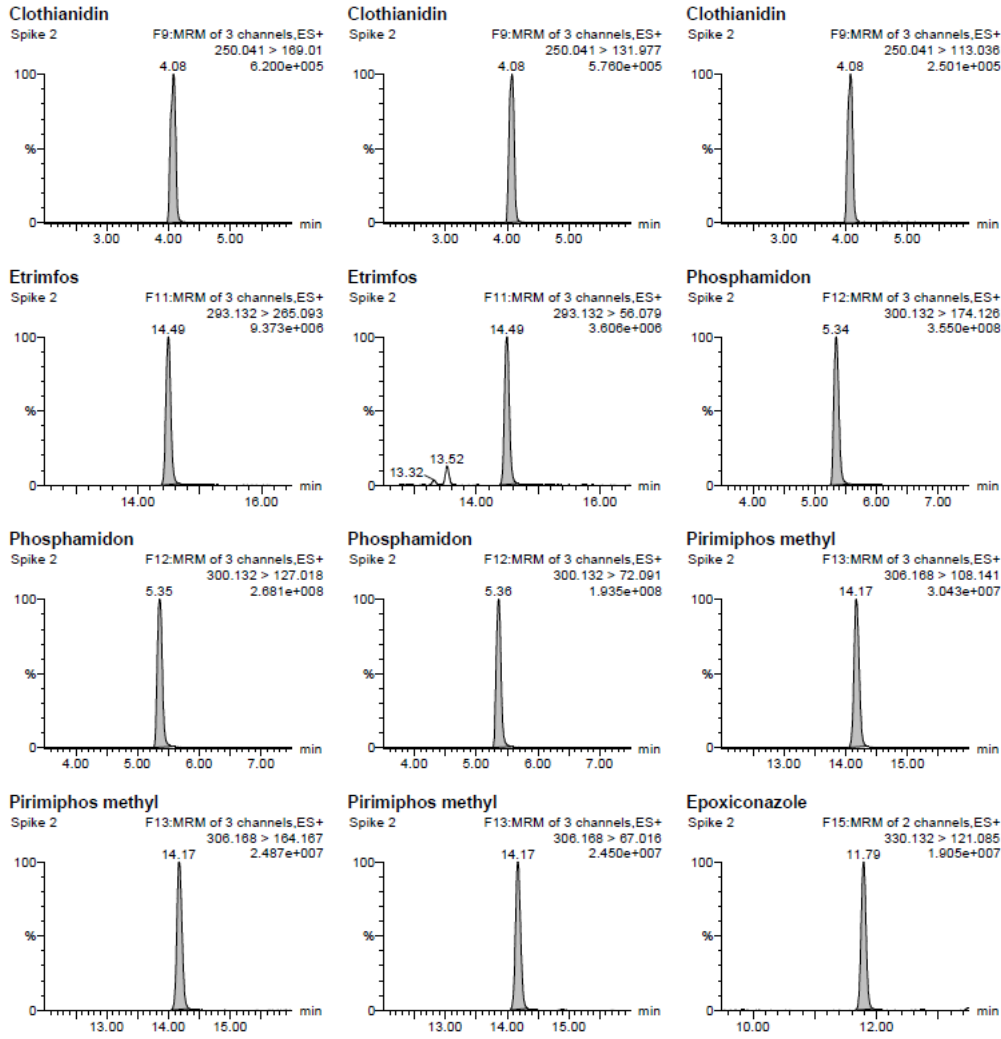


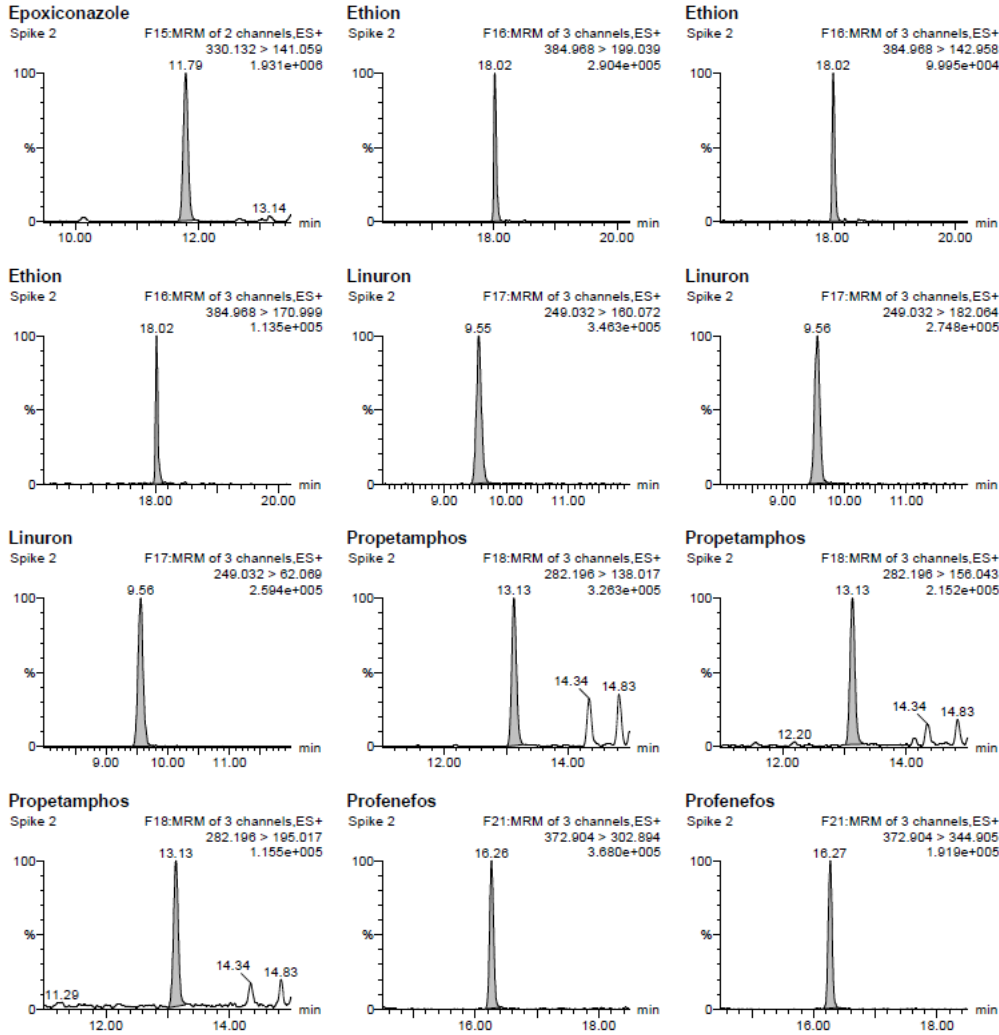
Bendiocarb



Bendiocarb







Sample Text	Name	Trace	RT	Area	Primar...	ng/mL	1° Ratio (A...	2° Ratio...	plate a...
Spike 2	Primicarb	239.168 ...	3.67	3483186.750	bb	50.630	2.536	12.178	26413...
Spike 2	Carbaryl	202.132 ...	6.76	49658.563	bb	40.638	3.425	5.855	72823...
Spike 2	Diallate	270.032 ...	16.60	34633.555	bb	56.256	5.386	7.346	40240...
Spike 2	Myclobutanil	289.132 ...	11.22	3068330.500	bb	51.880	5.170	25.210	79626...

Sample Text	Name	Trace	RT	Area	Primar...	ng/mL	1° Ratio (A...	2° Ratio...	plate a...
Spike 2	Flusilazole	316.132 ...	12.81	2285370.250	bb	52.053	1.360	4.675	15917...
Spike 2	Fenarimol	331.032 ...	10.66	185037.484	bb	51.639	1.884	2.783	69438...
Spike 2	molinat	188.132 ...	9.71	83526.547	bb	52.684	1.021	3.012	44924...
Spike 2	Bendiocarb	224.068 ...	6.28	174359.781	bb	50.896	1.065	2.602	47021...
Spike 2	Clothianidin	250.041 ...	4.08	58009.777	bb	52.317	1.085	2.469	21543...
Spike 2	Etrifos	293.132 ...	14.49	841789.375	bb	47.409		2.613	13425...
Spike 2	Phosphamidon	300.132 ...	5.34	32471320.0...	bb	52.400	1.318	1.916	15676...
Spike 2	Pirimiphos m...	249.032 ...	14.17	2855782.000	bb	50.352	1.222	1.257	13766...
Spike 2	Epoxiconazole	330.132 ...	11.79	1720105.875	bb	52.900	10.089		99493...
Spike 2	Ethion	384.968 ...	18.02	13271.987	bb	37.637	2.770	2.781	85303...
Spike 2	Linuron	249.032 ...	9.55	31851.207	bb	52.357	1.192	1.311	14950...
Spike 2	Propetamphos	282.196 ...	13.13	28217.449	bb	50.666	1.460	2.812	15355...
Spike 2	Profenefos	372.904 ...	16.26	26426.334	bb	41.601	1.945		27245...

● 结论:

使用月旭 Ultimate® UHPLC AQ-C18 2.1×100mm, 1.8μm 检测平菇中抗蚜威、甲萘威、燕麦敌、腈菌唑、氟硅唑、氯苯嘧啶醇、禾草敌、噁虫威、噻虫胺、乙嘧硫磷、磷胺、甲基嘧啶磷、



氟环唑、乙硫磷、利谷隆、胺丙畏、丙溴磷回收率为 101.8%、77.9%、109.7%、104.6%、105.3%、104.7%、110.3%、102.1%、102.3%、97.1%、104.5%、101.7%、106.8%、78.4%、108.3%、102.0%、86.4%，样品回收率满足要求。

日期: 2023/04/11

Welch  
月旭科技

