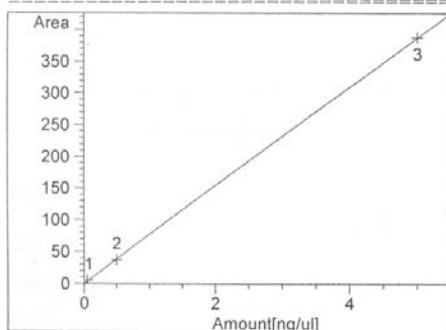


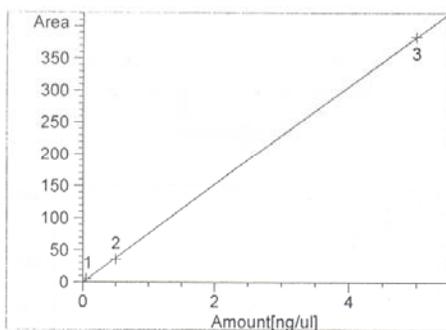
ภาคผนวก ค

กราฟมาตรฐานและโครมาโทแกรมของสารฆ่าแมลง

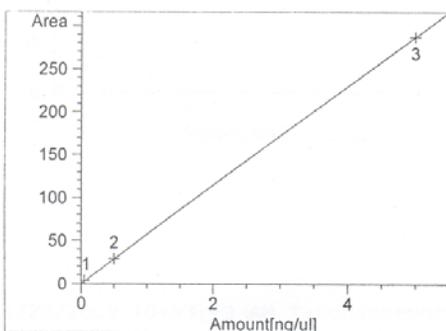
Calibration Curves



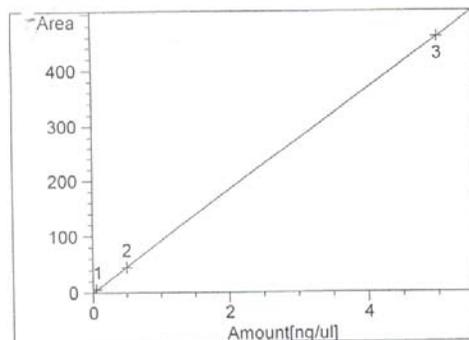
Aldicarb sulfoxide at exp. RT: 14.726
 FLD1 A, Ex=330, Em=465
 Correlation: 0.99999
 Residual Std. Dev.: 1.46966
 Formula: $y = mx$
 m: 77.48575
 x: Amount[ng/ul]
 y: Area



Aldicarb sulfone at exp. RT: 15.522
 FLD1 A, Ex=330, Em=465
 Correlation: 0.99997
 Residual Std. Dev.: 2.07814
 Formula: $y = mx$
 m: 76.53607
 x: Amount[ng/ul]
 y: Area

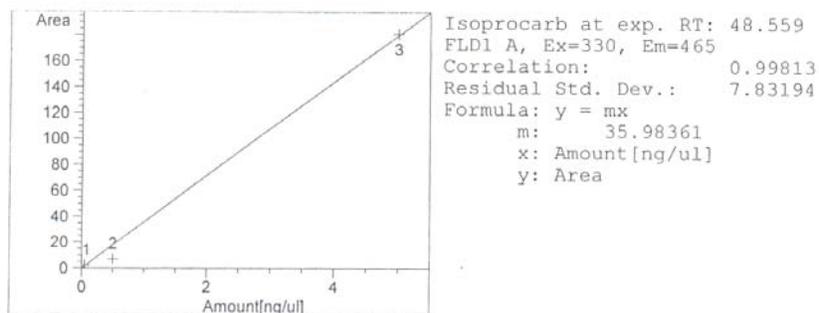
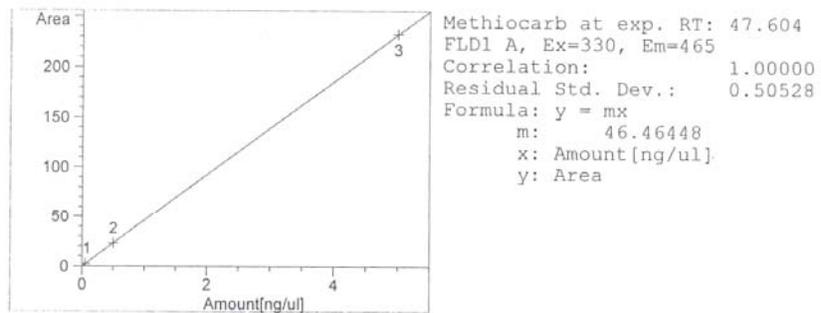
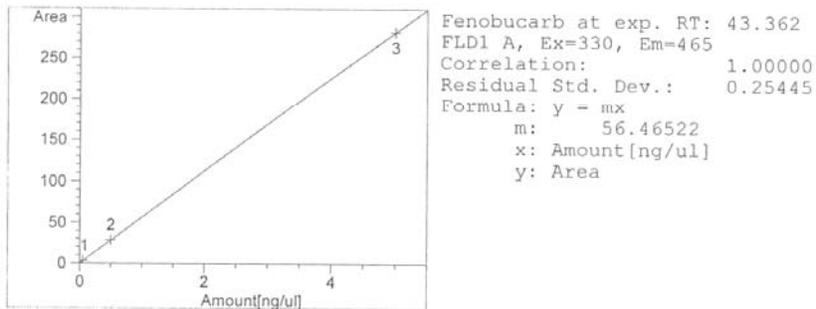
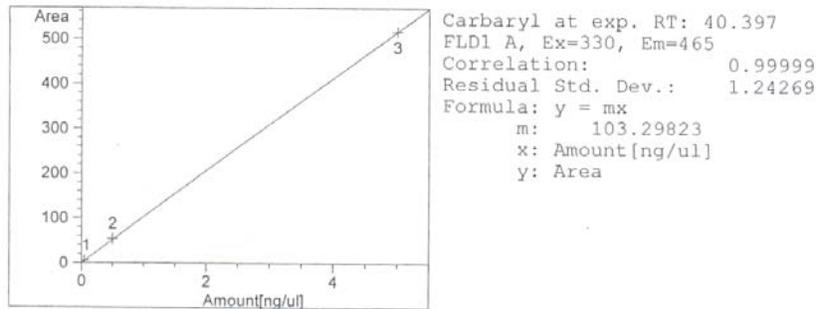


Oxamyl at exp. RT: 17.860
 FLD1 A, Ex=330, Em=465
 Correlation: 0.99999
 Residual Std. Dev.: 0.70214
 Formula: $y = mx$
 m: 57.49684
 x: Amount[ng/ul]
 y: Area

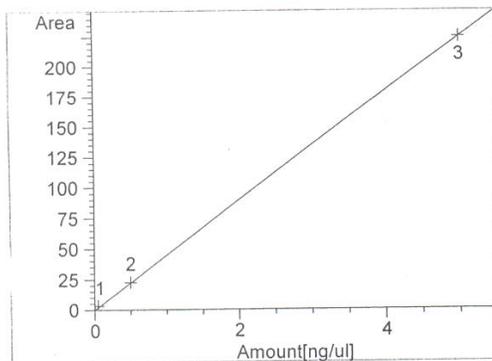


Methomyl at exp. RT: 19.600
 FLD1 A, Ex=330, Em=465
 Correlation: 0.99999
 Residual Std. Dev.: 1.26204
 Formula: $y = mx$
 m: 92.00014
 x: Amount[ng/ul]
 y: Area

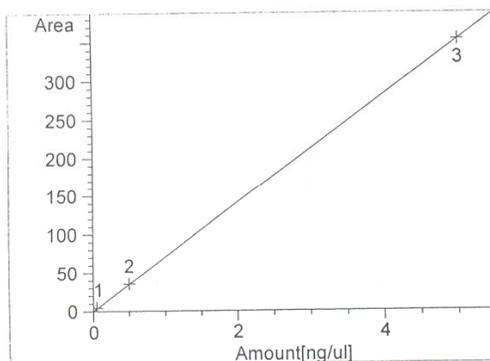
ภาพภาคผนวกที่ 1ค. กราฟมาตรฐานของ aldicarb sulfoxide, aldicarb sulfone, oxamyl และ methomyl



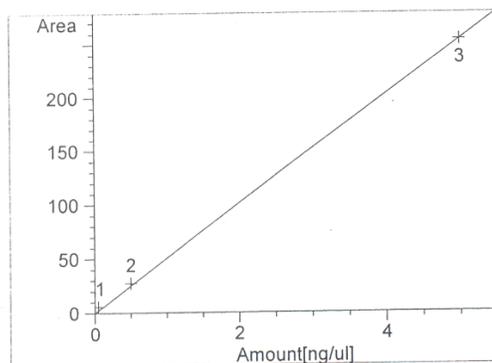
ภาพภาคผนวกที่ 2ค. กราฟมาตรฐานของ carbaryl, fenobucarb, methiocarb และ isoprocarb



Carbofuran-3-OH at exp. RT: 26.961
 FLD1 A, Ex=330, Em=465
 Correlation: 0.99999
 Residual Std. Dev.: 0.60571
 Formula: $y = mx$
 m: 44.92730
 x: Amount [ng/ul]
 y: Area

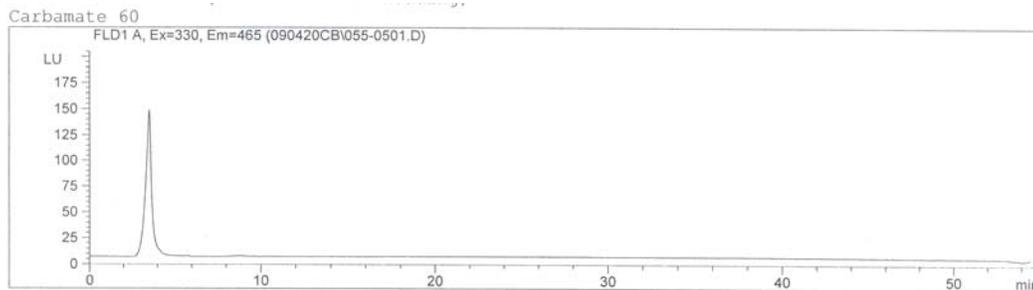


Aldicarb at exp. RT: 32.987
 FLD1 A, Ex=330, Em=465
 Correlation: 1.00000
 Residual Std. Dev.: 0.53651
 Formula: $y = mx$
 m: 70.68629
 x: Amount [ng/ul]
 y: Area



Carbofuran at exp. RT: 38.329
 FLD1 A, Ex=330, Em=465
 Correlation: 0.99989
 Residual Std. Dev.: 2.68143
 Formula: $y = mx$
 m: 50.84058
 x: Amount [ng/ul]
 y: Area

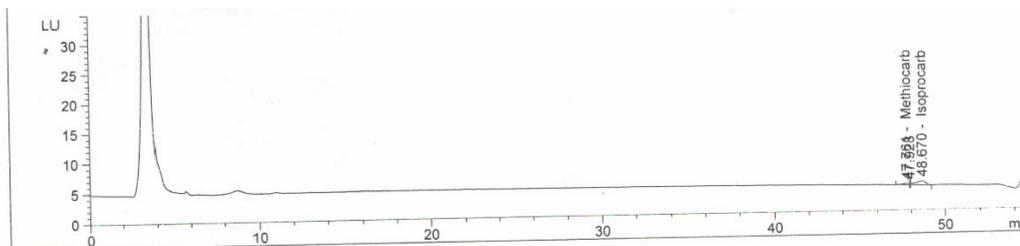
ภาพภาคผนวกที่ 3ค. กราฟมาตรฐานของ carbofuran-3-OH, aldicarb และ carbofuran



RetTime [min]	Type	Area LU	*s	Amt/Area	Amount [ng/ul]	Grp	Name
14.726		-	-	-	-		Aldicarb sulfoxide
15.522		-	-	-	-		Aldicarb sulfone
17.860		-	-	-	-		Oxamyl
19.600		-	-	-	-		Methomyl
26.961		-	-	-	-		Carbofuran-3-OH
32.987		-	-	-	-		Aldicarb
38.329		-	-	-	-		Carbofuran
40.397		-	-	-	-		Carbaryl
43.362		-	-	-	-		Fenobucarb
47.604		-	-	-	-		Methiocarb
48.559		-	-	-	-		Isoprocarb

Totals : 0.00000

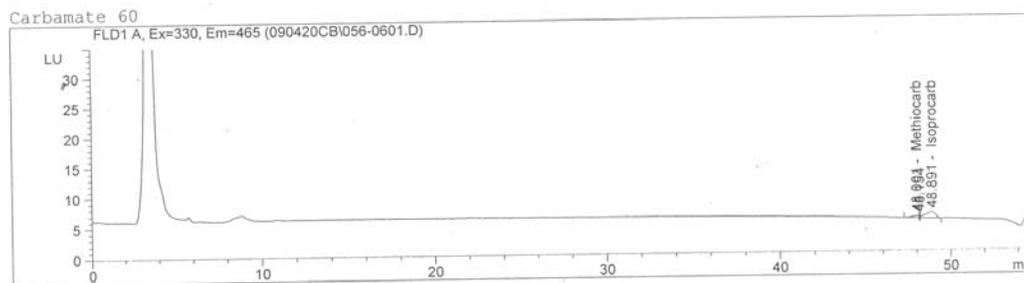
ภาพภาคผนวกที่ 4ค. โครมาโทแกรมของ blank



RetTime [min]	Type	Area LU	*s	Amt/Area	Amount [ng/ul]	Grp	Name
14.726		-	-	-	-		Aldicarb sulfoxide
15.522		-	-	-	-		Aldicarb sulfone
17.860		-	-	-	-		Oxamyl
19.600		-	-	-	-		Methomyl
26.961		-	-	-	-		Carbofuran-3-OH
32.987		-	-	-	-		Aldicarb
38.329		-	-	-	-		Carbofuran
40.397		-	-	-	-		Carbaryl
43.362		-	-	-	-		Fenobucarb
47.761	VV	6.22975		2.15218e-2	2.41336e-2		Methiocarb
48.670	VP	27.29931		2.77904e-2	1.36559e-1		Isoprocarb

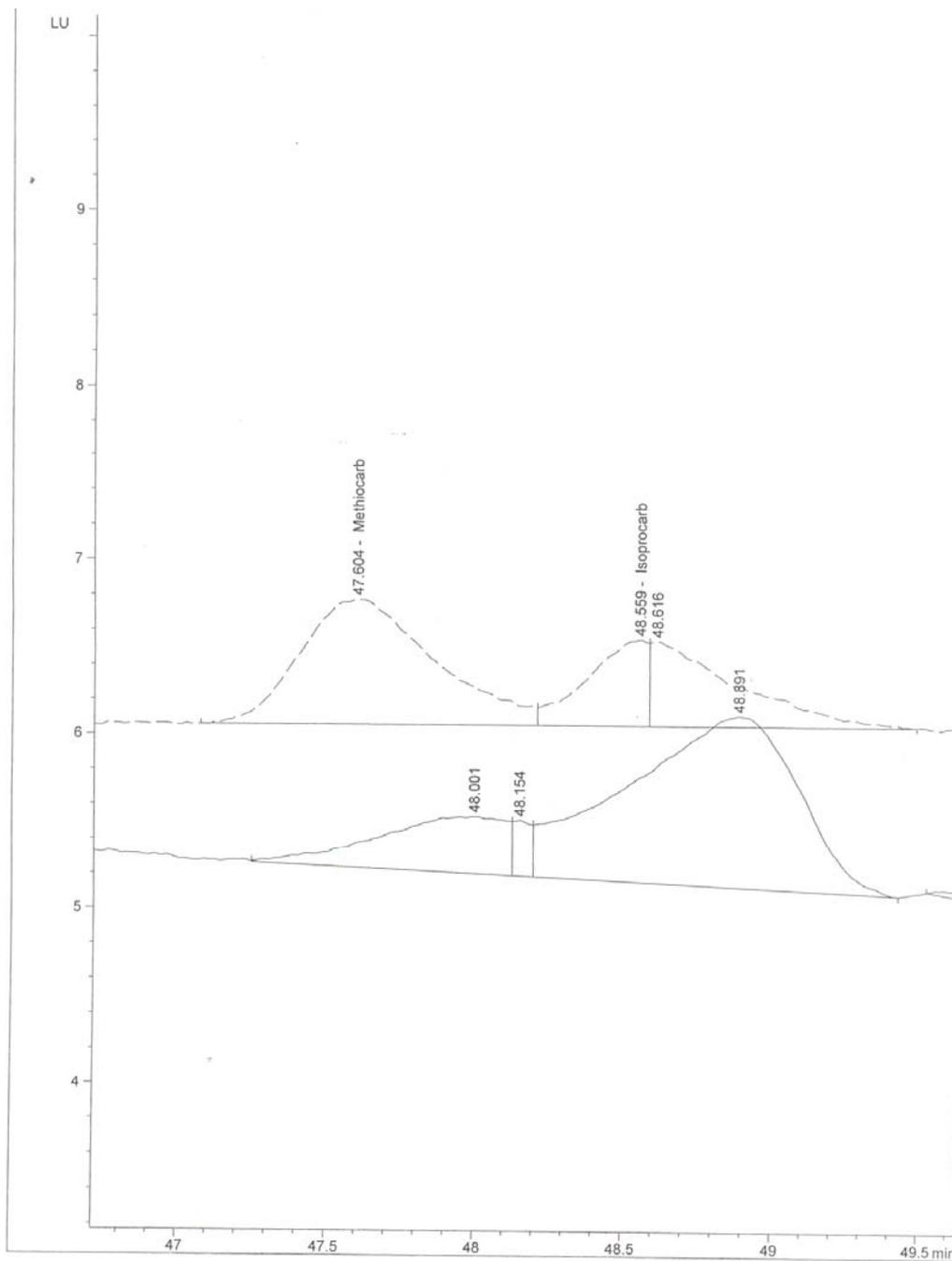
Totals : 1.60692e-1

ภาพภาคผนวกที่ 5ค. โครมาโทแกรมของ methiocarb และ isoprocarb



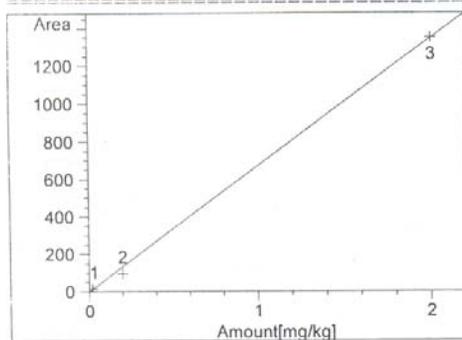
RetTime [min]	Type	Area LU	Amt/Area *s	Amount [ng/ul]	Grp	Name
14.726		-	-	-		Aldicarb sulfoxide
15.522		-	-	-		Aldicarb sulfone
17.860		-	-	-		Oxamyl
19.600		-	-	-		Methomyl
26.961		-	-	-		Carbofuran-3-OH
32.987		-	-	-		Aldicarb
38.329		-	-	-		Carbofuran
40.397		-	-	-		Carbaryl
43.362		-	-	-		Fenobucarb
48.001	VV	9.84329	2.15218e-2	3.81322e-2		Methiocarb
48.891	VP	39.14643	2.77904e-2	1.95821e-1		Isoprocarb
Totals :				2.33954e-1		

ภาพภาคผนวกที่ 6ค. โครมาโทแกรมของ methiocarb และ isoprocarb

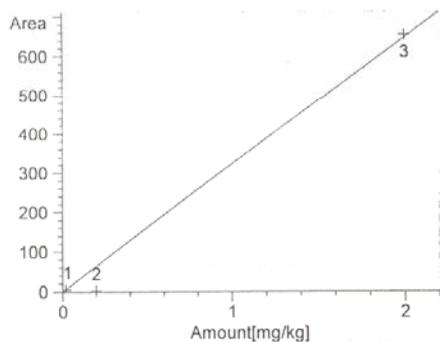


ภาพภาคผนวกที่ 7ค. โครมาโทแกรมขยายของ methiocarb และ isoprocarb

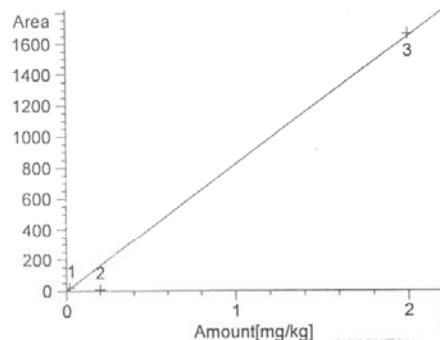
Calibration Curves



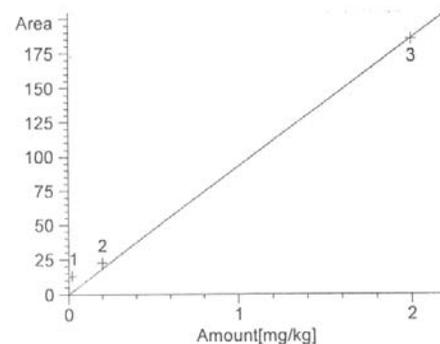
Dichlorvos at exp. RT: 8.160
 FPD1 A,
 Correlation: 0.99957
 Residual Std. Dev.: 28.10075
 Formula: $y = mx$
 m: 673.27630
 x: Amount [mg/kg]
 y: Area



Methamidophos at exp. RT: 9.510
 FPD1 A,
 Correlation: 0.99531
 Residual Std. Dev.: 44.69752
 Formula: $y = mx$
 m: 323.43417
 x: Amount [mg/kg]
 y: Area

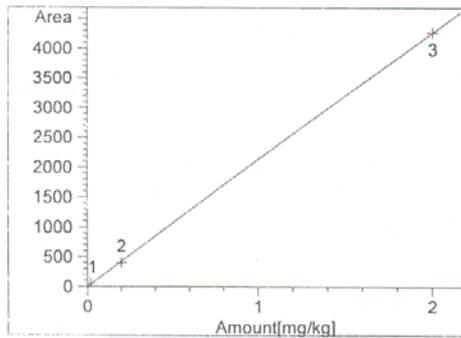


Mevinphos at exp. RT: 10.535
 FPD1 A,
 Correlation: 0.99537
 Residual Std. Dev.: 113.29495
 Formula: $y = mx$
 m: 825.38273
 x: Amount [mg/kg]
 y: Area

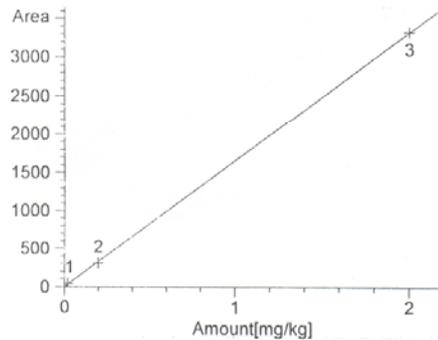


Omethoate at exp. RT: 14.137
 FPD1 A,
 Correlation: 0.99803
 Residual Std. Dev.: 8.30680
 Formula: $y = mx$
 m: 92.98111
 x: Amount [mg/kg]
 y: Area

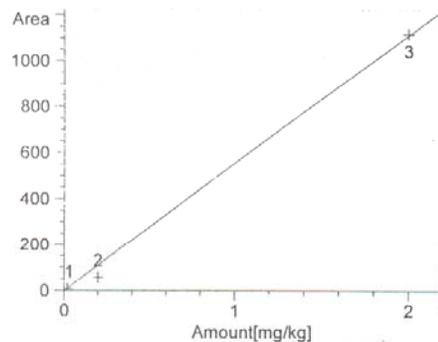
ภาพภาคผนวกที่ 9ค. กราฟมาตรฐานของ dichlorvos, methamidophos, omethoate และ omethoate



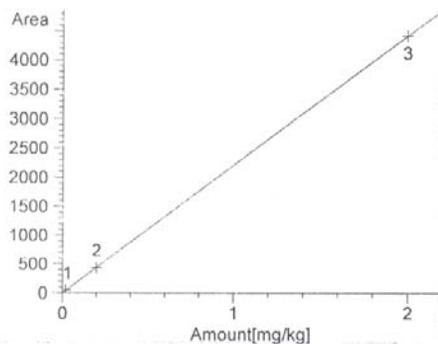
Pirimiphos-methyl at exp. RT: 17.919
 FPD1 A,
 Correlation: 0.99997
 Residual Std. Dev.: 22.70839
 Formula: $y = mx$
 m: 2133.09593
 x: Amount [mg/kg]
 y: Area



Chlorpyrifos at exp. RT: 18.821
 FPD1 A,
 Correlation: 0.99996
 Residual Std. Dev.: 20.24792
 Formula: $y = mx$
 m: 1662.27655
 x: Amount [mg/kg]
 y: Area

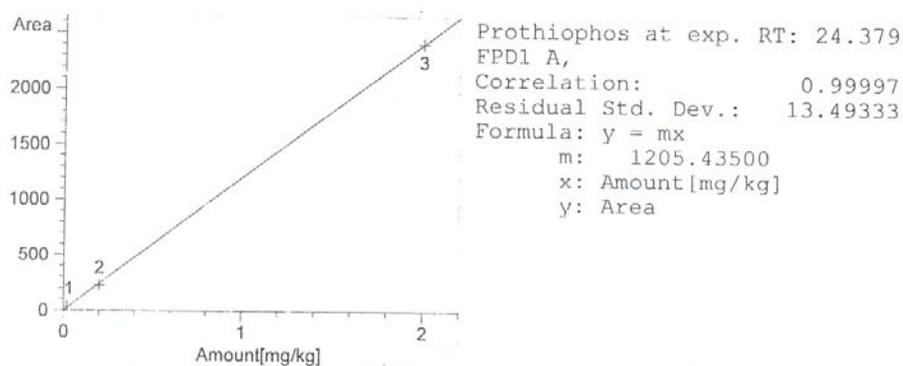
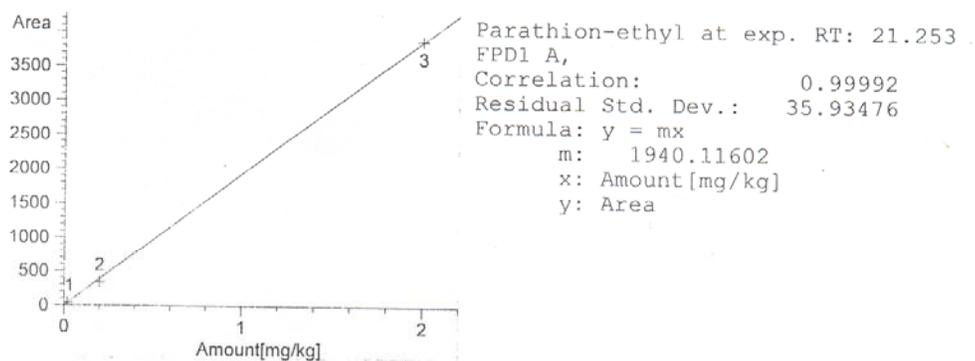
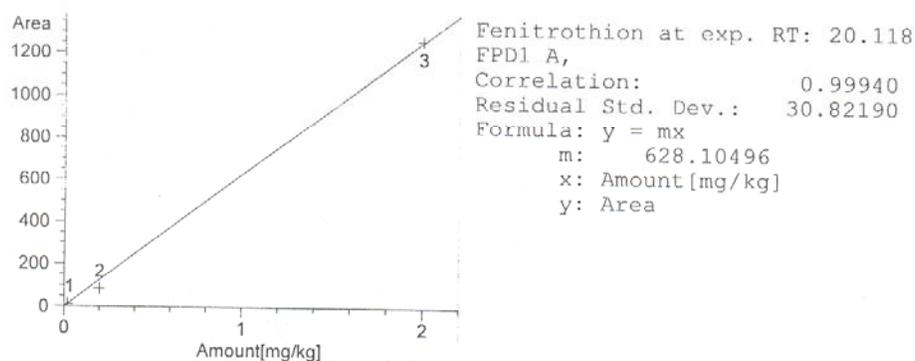
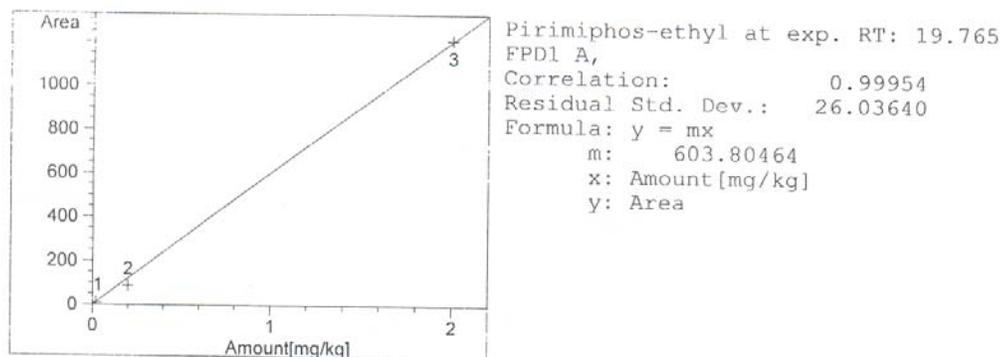


Parathion-methyl at exp. RT: 19.024
 FPD1 A,
 Correlation: 0.99878
 Residual Std. Dev.: 39.09372
 Formula: $y = mx$
 m: 556.49757
 x: Amount [mg/kg]
 y: Area

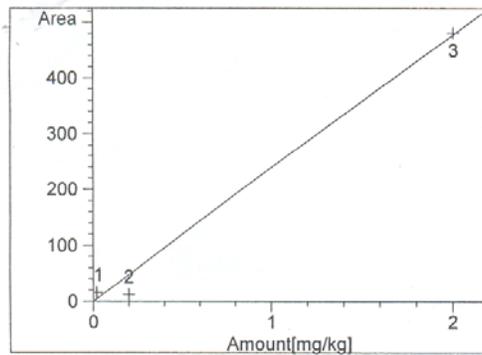


Malathion at exp. RT: 19.643
 FPD1 A,
 Correlation: 1.00000
 Residual Std. Dev.: 4.41485
 Formula: $y = mx$
 m: 2212.68280
 x: Amount [mg/kg]
 y: Area

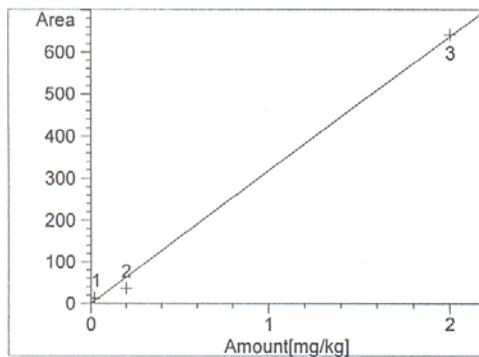
ภาพภาคผนวกที่ 10ค. กราฟมาตรฐานของ pirimiphos-methyl, chlorpyrifos, parathion-methyl และ malathion



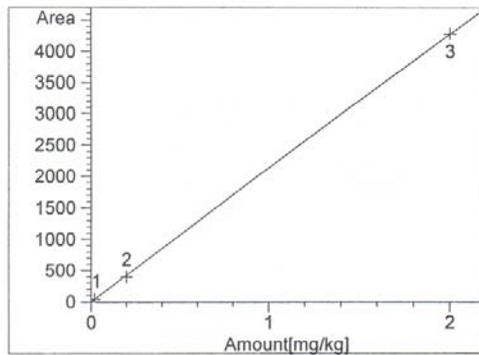
ภาพภาคผนวกที่ 11ค. กราฟมาตรฐานของ pirimiphos-ethyl, fenitrothion, parathion-ethyl และ prothiophos



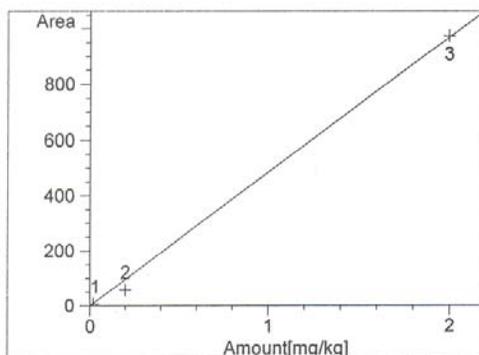
Methidathion at exp. RT: 25.839
 FPD1 A,
 Correlation: 0.99698
 Residual Std. Dev.: 26.46989
 Formula: $y = mx$
 m: 239.09693
 x: Amount [mg/kg]
 y: Area



Profenofos at exp. RT: 26.036
 FPD1 A,
 Correlation: 0.99897
 Residual Std. Dev.: 20.62460
 Formula: $y = mx$
 m: 319.10434
 x: Amount [mg/kg]
 y: Area

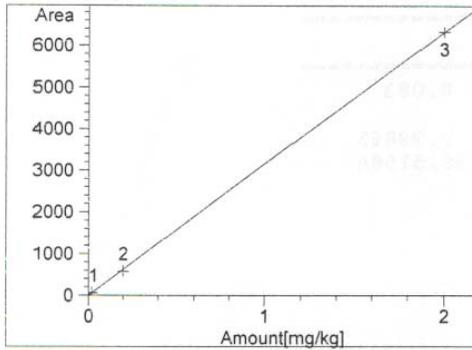


Ethion at exp. RT: 30.221
 FPD1 A,
 Correlation: 0.99997
 Residual Std. Dev.: 24.96611
 Formula: $y = mx$
 m: 2140.53456
 x: Amount [mg/kg]
 y: Area

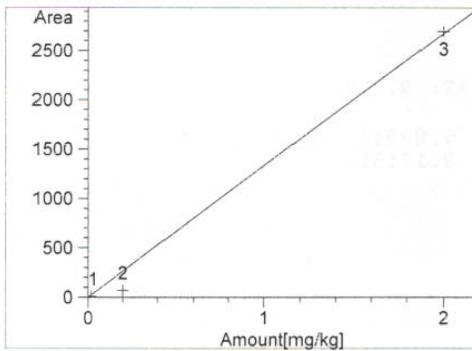


Triazophos at exp. RT: 35.214
 FPD1 A,
 Correlation: 0.99917
 Residual Std. Dev.: 28.12452
 Formula: $y = mx$
 m: 484.31576
 x: Amount [mg/kg]
 y: Area

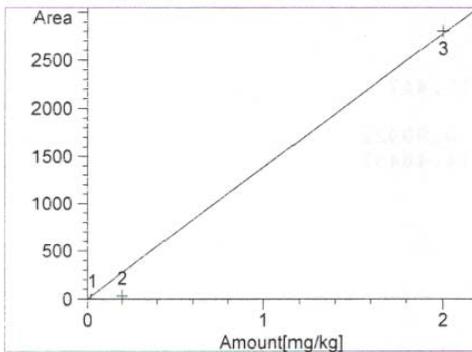
ภาพภาคผนวกที่ 12ค. กราฟมาตรฐานของ methidathion, profenofos, ethion และ triazophos



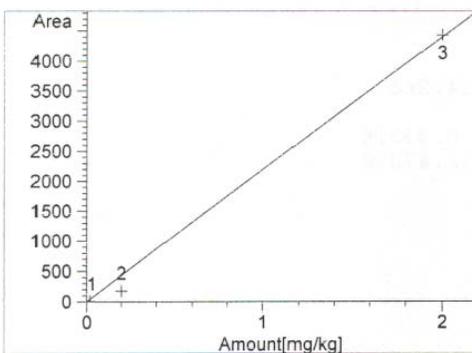
Diazinon at exp. RT: 14.424
 FPD1 A,
 Correlation: 0.99996
 Residual Std. Dev.: 41.11054
 Formula: $y = mx$
 m: 3165.69811
 x: Amount [mg/kg]
 y: Area



Dicrotophos at exp. RT: 14.636
 FPD1 A,
 Correlation: 0.99724
 Residual Std. Dev.: 141.49278
 Formula: $y = mx$
 m: 1337.68518
 x: Amount [mg/kg]
 y: Area

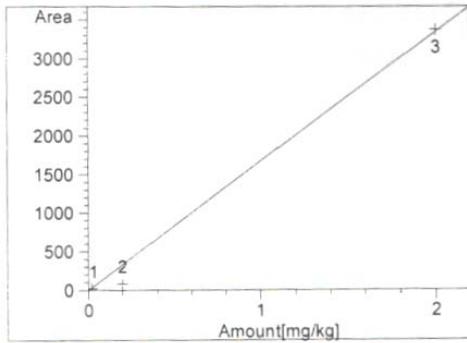


Monocrotophos at exp. RT: 16.275
 FPD1 A,
 Correlation: 0.99602
 Residual Std. Dev.: 176.72594
 Formula: $y = mx$
 m: 1388.62060
 x: Amount [mg/kg]
 y: Area

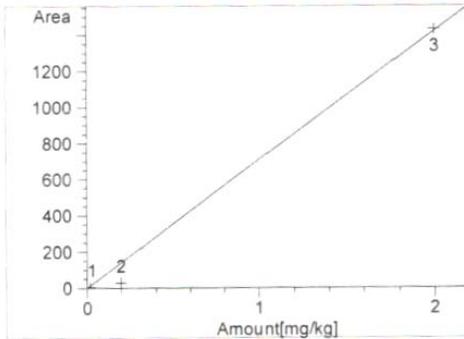


Dimethoate at exp. RT: 16.701
 FPD1 A,
 Correlation: 0.99816
 Residual Std. Dev.: 189.97511
 Formula: $y = mx$
 m: 2200.31127
 x: Amount [mg/kg]
 y: Area

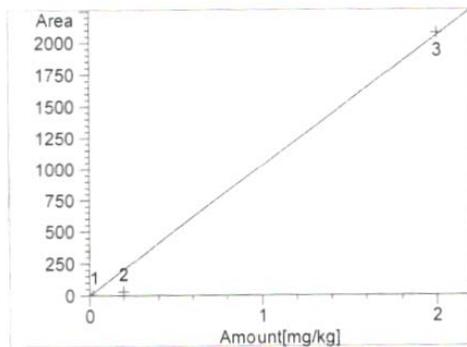
ภาพภาคผนวกที่ 13ค. กราฟมาตรฐานของ diazinon, dicrotophos, monocrotophos และ dimethoate



EPN at exp. RT: 38.628
 FPD1 A,
 Correlation: 0.99714
 Residual Std. Dev.: 179.83719
 Formula: $y = mx$
 m: 1670.73069
 x: Amount[mg/kg]
 y: Area

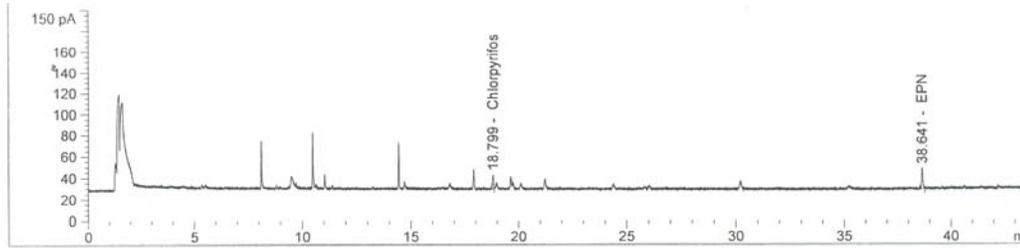


Phosalone at exp. RT: 40.591
 FPD1 A,
 Correlation: 0.99676
 Residual Std. Dev.: 81.44069
 Formula: $y = mx$
 m: 710.40835
 x: Amount[mg/kg]
 y: Area



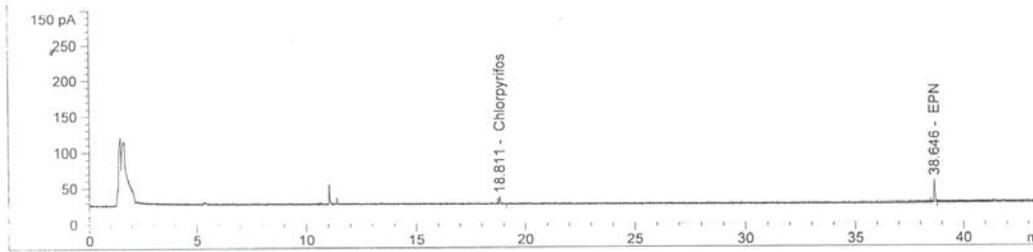
Azinphos-ethyl at exp. RT: 42.177
 FPD1 A,
 Correlation: 0.99631
 Residual Std. Dev.: 125.98229
 Formula: $y = mx$
 m: 1028.64504
 x: Amount[mg/kg]
 y: Area

ภาพภาคผนวกที่ 14ค. กราฟมาตรฐานของ EPN, phosalone และ azinphos-ethyl



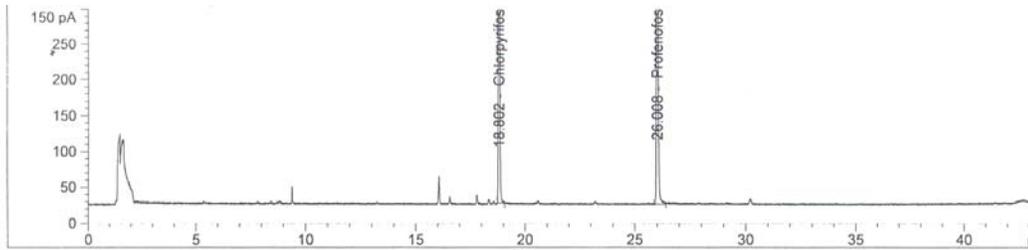
RetTime [min]	Type	Area 150 pA*s	Amt/Area	Amount [mg/kg]	Grp	Name
8.160		-	-	-		Dichlorvos
9.510		-	-	-		Methamidophos
10.535		-	-	-		Mevinphos
14.137		-	-	-		Omethoate
14.442		-	-	-		Diazinon
14.730		-	-	-		Dicrotophos
16.502		-	-	-		Monocrotophos
16.629		-	-	-		Dimethoate
17.919		-	-	-		Pirimiphos-methyl
18.799	BV	46.87752	6.01585e-4	1.01523e-2		Chlorpyrifos
19.024		-	-	-		Parathion-methyl
19.643		-	-	-		Malathion
19.765		-	-	-		Pirimiphos-ethyl
20.118		-	-	-		Fenitrothion
21.253		-	-	-		Parathion-ethyl
24.379		-	-	-		Prothiophos
25.852		-	-	-		Methidathion
26.444		-	-	-		Profenofos
30.227		-	-	-		Ethion
35.298		-	-	-		Triazophos
38.641	VBA	81.17728	2.53974e-3	7.42209e-2		EPN
40.233		-	-	-		Phosalone
42.004		-	-	-		Azinphos-ethyl
Totals :				8.43732e-2		

ภาพภาคผนวกที่ 15ค. โครมาโทแกรมของ chlorpyrifos และ EPN



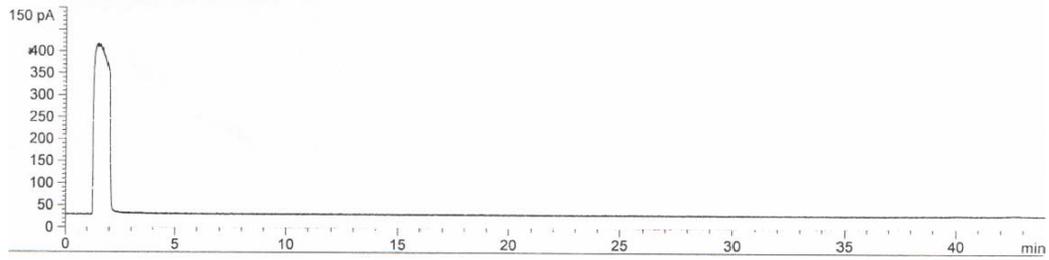
RetTime [min]	Type	Area 150 pA*s	Amt/Area	Amount [mg/kg]	Grp	Name
8.160		-	-	-		Dichlorvos
9.510		-	-	-		Methamidophos
10.535		-	-	-		Mevinphos
14.137		-	-	-		Omethoate
14.442		-	-	-		Diazinon
14.730		-	-	-		Dicrotophos
16.502		-	-	-		Monocrotophos
16.629		-	-	-		Dimethoate
17.919		-	-	-		Pirimiphos-methyl
18.811	BBA	40.45522	6.01585e-4	8.76140e-3		Chlorpyrifos
19.024		-	-	-		Parathion-methyl
19.643		-	-	-		Malathion
19.765		-	-	-		Pirimiphos-ethyl
20.118		-	-	-		Fenitrothion
21.253		-	-	-		Parathion-ethyl
24.379		-	-	-		Prothiophos
25.852		-	-	-		Methidathion
26.444		-	-	-		Profenofos
30.227		-	-	-		Ethion
35.298		-	-	-		Triazophos
38.646	VBA	120.37849	2.53974e-3	1.10063e-1		EPN 0.110063 z 0.11
40.233		-	-	-		Phosalone
42.004		-	-	-		Azinphos-ethyl
Totals :				1.18824e-1		

ภาพภาคผนวกที่ 16ก. โครมาโทแกรมของ Chlorpyrifos และ EPN



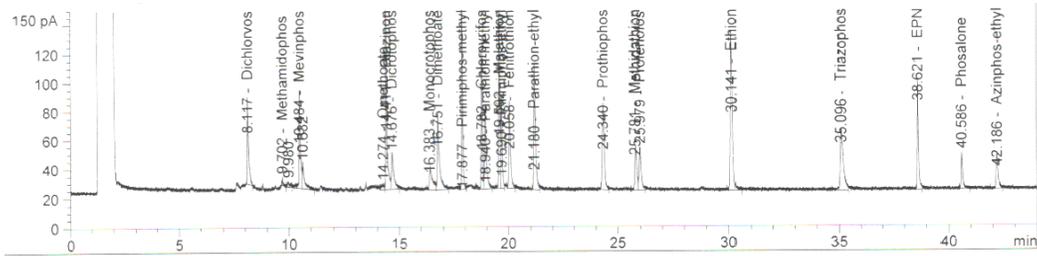
RetTime [min]	Type	Area 150 pA*s	Amt/Area	Amount [mg/kg]	Grp	Name
8.160	-	-	-	-	-	Dichlorvos
9.510	-	-	-	-	-	Methamidophos
10.535	-	-	-	-	-	Mevinphos
14.137	-	-	-	-	-	Omethoate
14.442	-	-	-	-	-	Diazinon
14.730	-	-	-	-	-	Dicrotophos
16.502	-	-	-	-	-	Monocrotophos
16.629	-	-	-	-	-	Dimethoate
17.919	-	-	-	-	-	Pirimiphos-methyl
18.802	BBA	2772.36450	6.01585e-4	6.00412e-1	-	Chlorpyrifos 0.66
19.024	-	-	-	-	-	Parathion-methyl
19.643	-	-	-	-	-	Malathion
19.765	-	-	-	-	-	Pirimiphos-ethyl
20.118	-	-	-	-	-	Fenitrothion
21.253	-	-	-	-	-	Parathion-ethyl
24.379	-	-	-	-	-	Prothiophos
25.852	-	-	-	-	-	Methidathion
26.008	BV	2633.82764	4.58028e-3	4.34292	-	Profenofos 4.34
30.227	-	-	-	-	-	Ethion
35.298	-	-	-	-	-	Triazophos
38.668	-	-	-	-	-	EPN
40.233	-	-	-	-	-	Phosalone
42.004	-	-	-	-	-	Azinphos-ethyl
Totals :				4.94333		

ภาพภาคผนวกที่ 17ค. โครมาโทแกรมของ Chlorpyrifos และ Profenofos



RetTime [min]	Type	Area 150 pA*s	Amt/Area	Amount [mg/kg]	Grp	Name
8.160	-	-	-	-	-	Dichlorvos
9.510	-	-	-	-	-	Methamidophos
10.535	-	-	-	-	-	Mevinphos
14.137	-	-	-	-	-	Omethoate
14.442	-	-	-	-	-	Diazinon
14.730	-	-	-	-	-	Dicrotophos
16.502	-	-	-	-	-	Monocrotophos
16.629	-	-	-	-	-	Dimethoate
17.919	-	-	-	-	-	Pirimiphos-methyl
18.821	-	-	-	-	-	Chlorpyrifos
19.024	-	-	-	-	-	Parathion-methyl
19.643	-	-	-	-	-	Malathion
19.765	-	-	-	-	-	Pirimiphos-ethyl
20.118	-	-	-	-	-	Fenitrothion
21.253	-	-	-	-	-	Parathion-ethyl
24.379	-	-	-	-	-	Prothiophos
25.852	-	-	-	-	-	Methidathion
26.444	-	-	-	-	-	Profenofos
30.227	-	-	-	-	-	Ethion
35.298	-	-	-	-	-	Triazophos
38.668	-	-	-	-	-	EPN
40.233	-	-	-	-	-	Phosalone
42.004	-	-	-	-	-	Azinphos-ethyl
Totals :				0.00000		

ภาพภาคผนวกที่ 18ค. โครมาโทแกรมของ blank



RetTime [min]	Type	Area 150 pA*s	Amt/Area	Amount [mg/kg]	Grp	Name
8.117	BBA	265.61957	9.53869e-4	1.01346e-1		Dichlorvos
9.702	BP	17.93939	1.27493e-2	9.14857e-2		Methamidophos
10.484	VV	320.52374	6.11333e-4	7.83787e-2		Mevinphos
14.274	VV	34.19004	6.41456e-3	8.77256e-2		Omethoate
14.411	VV	667.68030	3.15886e-4	8.43644e-2		Diazinon
14.676	VV	191.29631	1.06191e-3	8.12562e-2		Dicrotophos
16.383	VV	153.47800	1.32929e-3	8.16067e-2		Monocrotophos
16.751	VV	365.43927	7.09934e-4	1.03775e-1		Dimethoate
17.877	VV	507.51611	3.98209e-4	8.08391e-2		Pirimiphos-methyl
18.782	VV	400.61951	5.00328e-4	8.01764e-2		Chlorpyrifos
18.940	VV	332.51505	7.00836e-4	9.32154e-2		Parathion-methyl
19.592	VV	519.61884	3.88890e-4	8.08299e-2		Malathion
19.690	VV	268.89078	7.84587e-4	8.43873e-2		Pirimiphos-ethyl
20.058	VV	330.69046	6.24148e-4	8.25599e-2		Fenitrothion
21.180	BV	502.22189	3.62914e-4	7.29054e-2		Parathion-ethyl
24.340	BV	391.47641	4.88805e-4	7.65423e-2		Prothiophos
25.781	VV	193.97615	1.09989e-3	8.53411e-2		Methidathion
25.979	VV	199.42313	9.14490e-4	7.29482e-2		Profenofos
30.141	BV	716.47906	2.59768e-4	7.44472e-2		Ethion
35.096	VV	421.20526	4.40613e-4	7.42354e-2		Triazophos
38.621	VV	317.57788	5.98541e-4	7.60333e-2		EPN
40.586	VP	129.71840	1.94039e-3	1.00681e-1		Phosalone
42.186	EB	153.18384	1.26956e-3	7.77902e-2		Azinphos-ethyl

Totals : 1.92287

ภาพภาคผนวกที่ 19ค. โครมาโทแกรมของตัวอย่างพริกที่เติมสารมาตรฐานกลุ่มออร์กาโนฟอสเฟตลง
ไป 0.1 mg/kg



Internal Quality Control for Organophosphate Analysis

Extracted Date: 03/07/52
 Extracted by: ทัชณีนภรณ์ นิตยา
 Analysed by: ทัชณีนภรณ์ นิตยา
 Injection Date: 03/07/52

Refer Mix Standard Code: -
 Refer Batch No. : 52/76
 Fortified Sample No. : KK52/04657
 Duplicate Sample No. : KK52/04657

Test items	Fortified Value <input checked="" type="checkbox"/> (mg/kg) <input type="checkbox"/> (mg/L)	Sample Duplicate				Found Value		% Recovery		
		Dup 1	Dup 2	Average	%Dif.	QC 1	QC 2	QC 1	QC 2	Average
Dichlorvos						0.101346		101.35		
Methamidophos						0.091486		91.49		
Mevinphos						0.078379		78.38		
Omethoate						0.087726		87.73		
iazinon						0.084364		84.36		
Dicrotophos						0.081256		81.26		
Monocrotophos						0.081607		81.61		
Dimethoate						0.103775		103.78		
Pirimiphos-methyl						0.080839		80.84		
Chlorpyrifos						0.080176		80.18		
Parathion-methyl						0.093215		93.22		
Malathion	0.10	ND	ND	ND	0	0.080830		80.83		
Pirimiphos-ethyl						0.084387		84.39		
Fenitrothion						0.082560		82.56		
Parathion-ethyl						0.072905		72.91		
Prothiophos						0.076542		76.54		
Methodathion						0.085341		85.34		
Profenofos						0.072948		72.95		
Ethion						0.074447		74.45		
Triazophos						0.074235		74.24		
EPN						0.076033		76.03		
Phosalone						0.100681		100.68		
Azinphos-ethyl						0.077790		77.79		

$$\% \text{ Recovery} = \frac{(\text{Found value (mg/kg)} - \text{Blank value (mg/kg)}) \times 100}{\text{Fortified value (mg/kg)}}$$

$$\% \text{ Dif.} = \frac{|\text{Dup 1} - \text{Dup 2}|}{\text{Average of duplicate}} \times 100$$

% Target Recovery

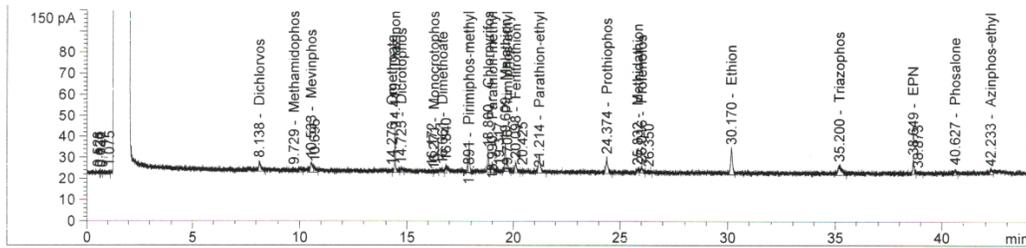
Concentration	% Target Recovery
0.01 mg/kg < Conc. ≤ 0.1 mg/kg	70 - 120

Approved by:

Approved Date: ๐๘/๐๗/๕๒

FM-TE-CH-031-001-R01(23/09/51)P1/1-KK

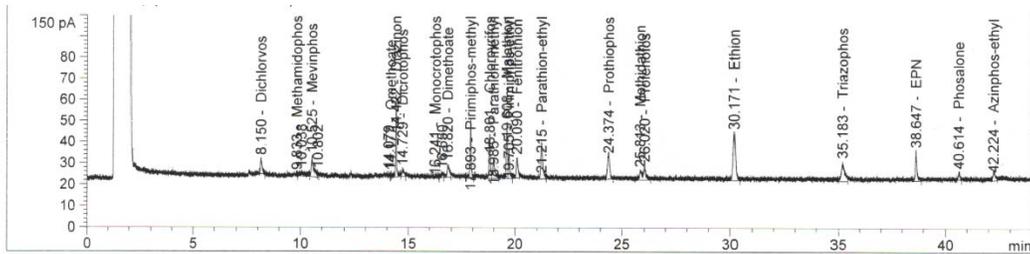
ภาพภาคผนวกที่ 20ค. เปรอร์เซ็นต์การได้กลับคืนเมื่อเติมสารมาตรฐานกลุ่มออร์กาโนฟอสเฟต ลงไป 0.1 mg/kg



RetTime [min]	Type	Area 150 pA*s	Amt/Area	Amount [mg/kg]	Grp	Name
8.138	VV	48.93226	3.72875e-4	7.29825e-3		Dichlorvos
9.729	VB	44.18255	5.67974e-4	1.00378e-2		Methamidophos
10.533	VV	36.95913	4.92178e-4	7.27619e-3		Mevinphos
14.276	VV	9.10393	2.24506e-3	8.17557e-3		Omethoate
14.419	VB	68.86428	3.15886e-4	8.70131e-3		Diazinon
14.725	BV	22.90497	9.60896e-4	8.80372e-3		Dicrotophos
16.271	VV	12.58559	2.00963e-3	1.01170e-2		Monocrotophos
16.661	VV	15.47073	1.39795e-3	8.65091e-3		Dimethoate
17.891	BB	51.55760	3.98209e-4	8.21229e-3		Pirimiphos-methyl
18.800	BV	45.50829	4.35597e-4	7.92932e-3		Chlorpyrifos
18.990	VV	25.94788	9.25611e-4	9.60706e-3		Parathion-methyl
19.609	BV	52.61681	3.88890e-4	8.18487e-3		Malathion
19.706	VB	22.66603	9.73657e-4	8.82758e-3		Pirimiphos-ethyl
20.098	BV	34.85699	6.24148e-4	8.70236e-3		Fenitrothion
21.214	VP	66.26962	3.62914e-4	9.62007e-3		Parathion-ethyl
24.374	BV	54.43034	4.26843e-4	9.29328e-3		Prothiophos
25.832	BV	12.50870	1.94863e-3	9.74996e-3		Methidathion
26.016	VB	22.41910	1.11669e-3	1.00141e-2		Profenofos
30.170	VV	87.77132	2.59768e-4	9.12006e-3		Ethion
35.200	VV	65.05727	3.97288e-4	1.03386e-2		Triazophos
38.649	VV	36.65017	5.98541e-4	8.77464e-3		EPN
40.627	VV	20.41171	1.09726e-3	8.95877e-3		Phosalone
42.233	VV	26.31446	9.72153e-4	1.02327e-2		Azinphos-ethyl

Totals : 2.06626e-1

ภาพภาคผนวกที่ 21ค. โครมาโทแกรมของตัวอย่างพริกที่เดิมสารมาตรฐานกลุ่ม
ออร์กาโนฟอสเฟตลงไป 0.01 mg/kg



RetTime [min]	Type	Area 150 pA*s	Amt/Area	Amount [mg/kg]	Grp	Name
8.150	BBA	42.27245	9.53869e-4	1.61289e-2		Dichlorvos
9.833	VV	2.86320	1.70544e-2	1.95321e-2		Methamidophos
10.525	VV	77.31432	4.92178e-4	1.52210e-2		Mevinphos
14.177	VV	2.27986	2.17366e-2	1.98226e-2		Omethoate
14.422	VB	121.04426	3.15886e-4	1.52945e-2		Diazinon
14.729	BV	25.97349	1.83253e-3	1.90388e-2		Dicrotophos
16.241	VV	12.98757	3.92075e-3	2.03684e-2		Monocrotophos
16.820	VV	49.68438	9.87816e-4	1.96316e-2		Dimethoate
17.893	VP	98.15807	3.98209e-4	1.56350e-2		Pirimiphos-methyl
18.801	VV	93.92152	4.35597e-4	1.63648e-2		Chlorpyrifos
18.985	VV	64.96922	7.00836e-4	1.82131e-2		Parathion-methyl
19.608	VV	106.33120	3.88890e-4	1.65405e-2		Malathion
19.705	VP	58.64801	7.84587e-4	1.84058e-2		Pirimiphos-ethyl
20.090	VV	63.97336	6.24148e-4	1.59715e-2		Fenitrothion
21.215	VV	113.30045	3.62914e-4	1.64473e-2		Parathion-ethyl
24.374	BP	88.72746	4.26843e-4	1.51491e-2		Prothiophos
25.813	VV	34.50846	1.09989e-3	1.51822e-2		Methidathion
26.020	VV	54.24637	9.14490e-4	1.98431e-2		Profenofos
30.171	VV	167.31961	2.59768e-4	1.73857e-2		Ethion
35.183	VV	99.65025	3.97288e-4	1.58359e-2		Triazophos
38.647	VV	81.68513	5.98541e-4	1.95567e-2		EPN
40.614	VV	20.58538	1.94039e-3	1.59774e-2		Phosalone
42.224	VV	38.20280	9.72153e-4	1.48556e-2		Azinphos-ethyl

Totals :

3.96402e-1

ภาพภาคผนวกที่ 22ก. โครมาโทแกรมของตัวอย่างพริกที่เดิมสารมาตรฐานกลุ่มออร์กาโนฟอสเฟตลง
ไป 0.02 mg/kg



Internal Quality Control for Organophosphate Analysis

Extracted Date: 03/07/52
 Extracted by: ทักษณีนภรณ์ นิตยา
 Analysed by: ทักษณีนภรณ์ นิตยา
 Injection Date: 03/07/52

Refer Mix Standard Code: -
 Refer Batch No.: 52/76
 Fortified Sample No.: KK52/04957
 Duplicate Sample No.: KK52/04957

Test items	Fortified Value <input checked="" type="checkbox"/> (mg/kg) <input type="checkbox"/> (mg/L)	Sample Duplicate				Found Value		% Recovery		
		Dup 1	Dup 2	Average	%Dif.	QC 1	QC 2	QC 1	QC 2	Average
Dichlorvos						0.016129		80.64		
Methamidophos						0.019532		97.66		
Mevinphos						0.015221		76.11		
Omethoate						0.019823		99.11		
inon						0.015295		76.47		
Dicrotophos						0.019039		95.19		
Monocrotophos						0.020368		101.84		
Dimethoate						0.019632		98.16		
Pirimiphos-methyl						0.015635		78.18		
Chlorpyrifos						0.016365		81.82		
Parathion-methyl						0.018213		91.07		
Malathion	0.02	ND	ND	ND	0	0.016541		82.70		
Pirimiphos-ethyl						0.018406		92.03		
Fenitrothion						0.015972		79.86		
Parathion-ethyl						0.016447		82.24		
F 'hiophos						0.015149		75.75		
Methidathion						0.015182		75.91		
Profenofos						0.019843		99.22		
Ethion						0.017386		86.93		
Triazophos						0.015836		79.18		
EPN						0.019557		97.78		
Phosalone						0.015977		79.89		
Azinphos-ethyl						0.014856		74.28		

$$\% \text{ Recovery} = \frac{(\text{Found value (mg/kg)} - \text{Blank value (mg/kg)}) \times 100}{\text{Fortified value (mg/kg)}}$$

$$\% \text{ Dif.} = \frac{|\text{Dup 1} - \text{Dup 2}|}{\text{Average of duplicate}} \times 100$$

% Target Recovery

Concentration	% Target Recovery
0.01 mg/kg < Conc. ≤ 0.1 mg/kg	70 - 120

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Approved by: 

Approved Date: 03/07/52 13

ภาพภาคผนวกที่ 23ก. เปรอ์เซ็นต์การได้กลับคืนเมื่อเติมสารมาตรฐานกลุ่มออร์กาโนฟอสเฟต ลงไป

0.02 mg/kg