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# 台灣市售中藥及青草藥農藥殘留之調查研究 (全程總報告)

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## 摘要

中藥與青草藥在台灣被廣泛的使用，且青草藥多無典籍記載，而中藥在農藥殘留限量標準上規範也不多，為了確保治療疾病時，使用的安全性，宜進一步進行相關管理及檢測。

本研究歷時兩年，赴台灣各地青草藥店收集10家常用之20種青草藥—車前草、鳳尾草、夏枯草、白鶴靈芝、黃蓮蕉、桑葉、雷公根、酢漿草、金線蓮、羊帶來、艾草、筆仔草（金絲草）、白花馬齒莧、紅田烏（蓮子草）、虎杖、絞股藍、煮飯花頭、五爪金英、山葡萄、洛神花，並在台灣各地中藥店收集11家常用之23種中藥—人參、人參鬚、黃耆、甘草、番瀉葉、丹參、麥門冬、桔梗、杜仲、黃芩、葛根、白芷、貝母、延胡索、金銀花、香附、黨參、川芎、柴胡、續斷、玄參、知母、白芍，進行有機氯農藥殘留情形，檢驗鮮品及乾品以氣相層析儀-電子捕捉檢測器進行農藥殘留檢測。

九十六年度，青草藥共有10種藥材，100個樣品，結果顯示：雷公根在總Aldrin + Dieldrin之檢測方面，有兩家高於歐盟50 ppb之規定，其檢測值分別為74 ppb，94 ppb。

九十七年度，青草藥共有10種藥材，105個檢品，結果顯示：艾草共10個檢品，有3個檢品的PCNB高於歐盟1.0 ppm之規定(5521.9015，7525.7882，2288.6790 ppb)，有2個檢品的總BHC超過歐盟0.9 ppm之規定(3048.8414，2969.3193 ppb)，有3個檢品的總DDT超過歐盟1.0 ppm之規定(4714.6370，4470.5512，5114.1802 ppb)，有4個檢品的總Aldrin + Dieldrin超過歐盟50 ppb的規定(86.6856，2420.7063，242.8865，1851.6223 ppb)，有3個檢品的Endrin超過歐盟50 ppb之規定(2377.3257，131.4546，375.1981 ppb)，有3個檢品的Heptachlor超過歐盟50 ppb之規定(530.2732，970.4249，679.6699 ppb)；筆仔

草共10個檢品，有5個檢品的總Aldrin + Dieldrin過量(77.7715，1195.1610，77.7689，171.3689，73.8370 ppb)；白花馬齒莧共10個檢品，有1個檢品的總Aldrin + Dieldrin過量(1489.1351 ppb)；絞股藍(葉)共10個檢品，有2個檢品的Endrin過量(52.3339，51.2066 ppb)，其餘藥材也有測得部分有機氯農藥殘留，但均未超過規定之限量標準。

九十六年度共檢測12種中藥，132個樣品，人參在總BHC之檢測方面有3家高於日本藥局方0.2 ppm之規定，其檢測值分別為214.6058，200.6525，403.3813 ppb。在Aldrin + Dieldrin之檢測方面有2家高於歐盟50 ppb之規定，其檢測值分別為50.5990，366.2027 ppb。人參鬚在11家檢品中檢測出有4個檢品之PCNB超出歐盟限量標準1 ppm 其檢測值分別為2247.6492，1166.6187，1076.0022，1138.5178 ppb。在總BHC方面，有3家超過歐盟規定之0.9 ppm其檢測值分別為1507.4446，1272.9798，1146.0561 ppb。另外在Aldrin + Dieldrin中，11家僅有2家能符合歐盟規範之0.05 ppm，高於標準之檢測濃度分別為70.3512，122.4808，177.3369，322.1615，352.3678，452.6130，473.6095，554.3756，1075.2380 ppb。在Endrin殘留檢測方面，有5家超過歐盟限量標準，其檢測值分別為53.7675，106.3574，126.0050，147.5012，251.4876。番瀉葉在總DDT之檢測方面有1家高於日本藥局方與中華中藥典0.2 ppm之規定，其檢測值為279.7882 ppb，在Aldrin + Dieldrin之檢測方面有兩家高於歐盟50 ppb之規定，其檢測值分別為61.2913 ppb，62.1031 ppb。九十七年度共檢

測12種藥材，151個檢品，結果顯示：金銀花共12個檢品，有2個Heptachlor量超過歐盟標準的50 ppb(53.5271，55.4034 ppb)；香附檢品13個中，全數對於歐盟規範的BHC ( $\alpha + \beta + \delta$ )殘留量0.3 ppm都不合格，對歐盟規範的 $\gamma$ -BHC殘留量0.6 ppm也有9個檢品不合格，其中又有12個檢品的總BHC量超過歐盟標準0.9 ppm (2176.8691，3289.1258，1051.2524，3500.9359，1924.2248，2355.8497，3489.6547，3235.5667，1859.1521，3284.7578，963.5271 ppb)，有9個檢品的總Aldrin + Dieldrin量超過歐盟標準50 ppb (96.0974，54.6147，142.3382，66.7391，87.3632，153.0644，172.8308，71.6052，122.2372 ppb)，有11個檢品的Endrin殘留量超過歐盟規定標準50 ppb (136.2766，177.4229，50.5641，374.9811，193.5363，50.1580，475.0580，789.6397，61.6174，121.6585，202.6193 ppb)，有10個檢品的Heptachlor殘留量超過歐盟規定標準50 ppb (72.9515，58.8757，92.4116，63.5822，275.4702，118.5363，229.8192，226.6363，169.2471，106.9734 ppb)；川芎12個檢品中有1個總Aldrin + Dieldrin量超過歐盟標準50 ppb (56.1887 ppb)，有5個檢品的Endrin殘留量超過歐盟規定標準50 ppb (106.8442，187.8964，109.6521，195.1335，85.2870 ppb)；知母有1個檢品的Endrin殘留量超過歐盟

規定標準 50 ppb (70.2472 ppb)。

其餘中藥、草藥雖有零星檢測出農藥殘留，但均遠低於目前各國藥典現行農藥殘留限量標準。

關鍵詞：農藥殘留、中藥、青草藥、氣相層析儀/電子捕捉檢測

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## Studies on the Pesticide Residue of TCM and Green Herbs in Taiwan (Final Report)

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### ABSTRACT

TCM crude drugs and green herbs had been used in folk medicine in Taiwan for many years. Because it is not regulated by the Department of Health under current laws, it is always a concern of the Health authority.

For the Safety of the general public, the quality of those TCM crude drugs and green herbs deserved more attention.

In 2007, this project studied the current status of pesticide residue of 10 most frequently used 10 green herbs from 10 green herbs stores in Taiwan. They are: *Plantago asiatica* L., *Pteris multifida* Poiret, *Prunella vulgaris* L. subsp. *asiatica* (Nakai) H. Hara var. *asiatica*, *Rhinacanthus nasutus* (L.) Kurz, *Canna faccida* Salisb, *Morus alba* L., *Centella asiatica* (Linn.) Urban, *Oxalis corniculata* L., *Anoectochilus formosanus* Hayata, *Xanthium strumarium* Linn. Additionally, 11 TCM crude drugs from 10 Chinese medicine herbal stores in Taiwan were also examined for their pesticide residue contents. They are: Ginseng Radix, Ginseng Rootlet, Astragalus Radix, Glycyrrhizae Radix, Sennae Folium, Salviae Miltiorrhizae Radix, Ophiopogonis Radix, Platycodi Radix, Eucommiae Cortex, Scutellariae Radix, Puerariae Radix, Angelicae Dahuricae Radix. Either fresh herbs or dried herbs were analyzed for the pesticide residue by the GC-ECD method.

The results showed that two *Centella asiatica* (Linn.) Urban contained Aldrin + Dieldrin (74 ppb, 94 ppb). In the TCM crude drugs specimen, there Ginseng Radix were found to contain total BHC (214.6058 ppb, 200.6525 ppb, 403.3813 ppb), and Aldrin + Dieldrin (50.5990 ppb, 366.2027 ppb). One Sennae Folium contained total DDT (279.7882 ppb), and Aldrin + Dieldrin (61.2913 ppb, 62.1031 ppb).

In 2008, this project studied the current status of pesticide residue in ten most frequently used green herbs from ten green herb stores in Taiwan. They are: *Artemisia princeps* Pamp. var. *orientalis* (Pamp) Hara, *Pogonatherum crinitum* (Thunb.) Kunth, *Portulaca oleracea* Linn., *Alternanthera sessili* (L.) R. Brown, *Polygonum cuspidatum* Sieb. et Zucc., *Gynostemma pentapphyllum* (Thunb.) Makino., *Mirabilis jalapa* Linn., *Tithonia diversifolia* (Hemsl.) A. Gray, *Ampelopsis brevipedunculata* var. *hancei* (Planch.) Li, *Hibiscus sabdariffa* L.

Additionally, twelve TCM crude drugs from 11 to 13 Chinese medicine herbal stores in Taiwan were also examined for their pesticide residue contents. They are: *Fritillariae Thunbergii* Bulbaceous, *Corydalis* Rhizoma, *Lonicerae* Flos, *Cyperi* Rhizoma, *Codonopsis* Radix, *Chuanxiong* Rhizoma, *Bupleuri* Radix, *Dipsaci* Radix, *Scrophulariae* Radix, *Anemarrhenae* Rhizoma, *Paeoniae Albae* Radix, *Glycyrrhizae* Radix. Both fresh herbs and dried herbs were analyzed the pesticide residues by the GC-ECD method

The results showed that three samples of *Artemisia princeps* Pamp. var. *orientalis* (Pamp) Hara contained excessive amount of PCNB (5521.9015, 7525.7882 and 2288.6790 ppb), two contained excessive amount of total BHC (3048.8414 and 2969.3193 ppb), three contained total DDT (4714.6370, 4470.5512 and 5114.1802 ppb), four contained Aldrin+Dieldrin (86.6856, 2420.7063, 242.8865 and 1851.6223 ppb), three contained Endrin (2377.3257, 131.4546 and 375.1981 ppb), three contained Heptachlor (530.2732, 970.4249 and 679.6699 ppb). Five *Pogonatherum crinitum* (Thunb.) Kunth contained excessive amount of Aldrin+Dieldrin (77.7715, 1195.1610, 77.7689, 171.3689 and 73.8370 ppb). One *Portulaca oleracea* Linn. contained excessive amount of Aldrin+Dieldrin (1489.1351 ppb). Two *Gynostemma pentapphyllum* (Thunb.) Makino. contained excessive amount of Endrin (52.3339 and 51.2066 ppb)

In the TCM crude drug category, two *Lonicerae* Flos were found to contain Heptachlor (53.5271 and 55.4034 ppb). All of the *Cyperi* Rhizoma contained extra ( $\alpha + \beta + \delta$ ) BHC according to the standard defined by EU (over 0.3 ppm). Nine *Cyperi* Rhizoma contained excessive amount of  $\gamma$ -BHC (912.3202, 1482.5323, 1413.6054, 731.6812, 978.3980, 1555.5734, 1768.9438, 797.4712 and 1171.6295 ppb). There was only one *Cyperi* Rhizoma not found with excessive total BHC residue (601.0202 ppb). Nine *Cyperi* Rhizoma samples contained excessive amount of Aldrin+Dieldrin (496.0974, 54.6147, 142.3382, 66.7391, 87.3632, 153.0644, 172.8308, 71.6052 and 122.2372 ppb). Eleven *Cyperi* Rhizoma

contained excessive amount of Endrin (136.2766, 177.4229, 50.5641, 374.9811, 193.5363, 50.1580, 475.0580, 789.6397, 61.6174, 121.6585 and 202.6193 ppb). Ten *Cyperi Rhizoma* contained excessive amount of Heptachlor (72.9515, 58.8757, 92.4116, 63.5822, 275.4702, 118.5363, 229.8192, 226.6363, 169.2471 and 106.9734 ppb). One *Chuanxiong Rhizoma* contained excessive amount of Aldrin+Dieldrin (56.1887 ppb). Five *Chuanxiong Rhizoma* contained excessive amount of Endrin (106.8442, 187.8964, 109.6521, 195.1335 and 85.2870 ppb). Only one *Anemarrhenae Rhizoma* was found to contain excessive amount of Endrin (70.2472 ppb).

Although a few samples from the rest of the TCM crude drugs were found to contain pesticide residues such as DDT, BHC, Aldrin+Dieldrin, Endrin or PCNB, but the values were well below the allowed limit.

Keywords: Pesticide Residue, TCM, Green Herbs, GC-ECD

## 壹、前言

青草藥在台灣使用頻繁，大都使用台灣本產藥用植物，因長期經驗累積，有一些具特殊療效之品種，值得重視。過去中國醫藥大學曾對全省各縣市作藥用植物調查<sup>(4-23)</sup>，只要該縣市有該植物之生長即列入，範圍太過廣泛，許多不具實用價值之品種也收載，不易掌握重點。

青草藥於民間時有誤用情況發生，因多無典籍記載，且青草藥店不列管，使得青草藥業者一直是醫藥管理上的一大漏洞，有鑒於此，行政院衛生署中醫藥委員會曾將「青草藥納入藥政管理之可行性評估」納入九十三年研究重點，探討青草藥納入管理有何困難點及技術障礙及其是否納入管理進行評估。九十三年度主持人以協同主持人身份參與「台灣青草藥店現狀之調查研究」，以全省各青草藥店實際使用之品項為調查對象，以了解台灣青草藥店實際情形。

「台灣青草藥店現狀之調查研究」自2003年9月1日至2005年5月20日為止，根據實際訪查（86家）與中華電信hiPage的資料（197家）去除重複的店家，共獲得223家青草店的名冊。青草藥店販賣乾燥藥材268種、新鮮青草藥168種、絞汁青草品項56種、醫院中藥局的青草品項，飲片類41種，濃縮中藥44種、青草店中販售中藥材51種、本草中有收載，但一般當草藥販賣者25種、青草茶常用品項47種，青草茶茶包21種，青草藥相關網站13筆、藥用植物研究會相關團體21筆，藥用植物園38家，並根據田野調查整理出青草藥前50名排行榜<sup>(24)</sup>。此外，並舉辦「青草藥是否列入藥政管理」座談會，收集正反兩方意見，提供衛生署中醫藥委員制定相關政策之參考。

而在台灣傳統藥典之農藥殘留限量標準僅有規定番瀉葉的總BHC 0.2 ppm及總DDT 0.2 ppm，其餘中藥品項則尚未規定<sup>(25)</sup>。故本研究擬分二年進行，每年收集台灣各地10家青草藥店之常用10種青草藥，以氣相層析儀進行有機氯農藥殘留檢測。另為建立中藥的農藥殘留背景值研究及限量標準，本計畫每年也赴台灣各地中藥店收集10家常用之11種中藥，進行有機氯農藥殘留檢測。並將實驗結果歸納分析，以提供中醫藥委員會對未來青草藥管理時之農殘限量標準值參考。而本計畫擬在九十四年度計畫之研究成果基礎上，更廣泛探討「台灣市售中藥及青草藥農藥殘留之調查研究」，二年共選擇台灣常用20種青草藥及22種中藥進行農藥殘留情形檢測，以作為未來對青草藥管理及中藥之農殘限量標準值之參考。

而「有機氯農藥(Organochlorine Pesticides, OCPs)」是持久性有機

污染物(Persistent Organic Pollutants, 簡稱POPs)中的一部分<sup>(23)</sup>。所謂持久性有機污染物,係具難分解性或蓄積性之化學物質,持久性有機污染物的衰解期長達數十年,因此長期累積於環境中,會經由食物鏈造成對人體之危害。我國雖已禁用有機氯農藥超過二十年,但因有機氯農藥長期濫用且其所需分解時間長,仍造成本島甚至全球性的土壤農藥污染,進而積聚於其上所栽植之藥用植物中。有機氯農藥 $\alpha$ -BHC、 $\beta$ -BHC、 $\gamma$ -BHC、 $\delta$ -BHC、PCNB、DDT及HCB等,多為脂溶性,可長期積聚於脂肪組織中,造成生物積聚與濃縮<sup>(24)</sup>,具劇毒或致腫瘤性。對人體健康有關是有機氯農藥的慢性毒害,可分為神經毒性、致癌性、荷爾蒙干擾和生殖毒性。含氯氫化合物為神經毒物,會干擾神經衝動的軸突而引發神經敏感

性增加,甚至產生不正常抽蓄和僵直<sup>(25)</sup>。目前已經由動物實驗證實,

長期暴露有機氯農藥下,老鼠可能引起肝臟惡性腫瘤、貧血、白血球減少、中樞神經等症狀。但是尚未將有機氯農藥列為致癌物質,因為在人體中並無法證實為致癌物質。依據國際癌症研究機構(International Agency for Research on Cancer, IARC)的分類,將BHC、DDT、Chlordane、Heptahhlor等歸類為第二類,亦即「疑似人類致癌物質(Possibly carcinogenic to humans)」;將Aldrin、Dieldrin、Endrin、Methoxychlor等則歸類為第三類,即「尚未確定是否為人類致癌物(not classifiable as to human carcinogenic)」<sup>(26)</sup>。

內分泌擾亂物質與人體細胞核內受體結合而產生的反應中,有些會有類原荷爾蒙類似的作用,有些則會阻礙荷爾蒙作用。DDT這類的化學物質會與雌激素受體結合,使其產生類雌激素作用,促進雌激素蛋白合成;而DDE與雄性激素受體結合後,會阻礙雄激素的作用,抑制了雄性蛋白合成<sup>(27)</sup>。同樣也有研究發現,DDT等有機氯農藥會使海鷗和燕鷗的雌性化並使生育力下降<sup>(28)</sup>,另外,一項研究則指出DDT類農藥的使用,可能會增加早產的結果<sup>(29,30)</sup>。



## 貳、材料與方法

### 一、材料

九十六年度赴台灣各地青草藥店收集10家常用之10種青草藥—車前草、鳳尾草、夏枯草、白鶴靈芝(仙鶴草)、黃蓮蕉、桑葉、雷公根、酢漿草、金線蓮、羊帶來(蒼耳)(如表1、圖1)，及台灣各地中藥店收集10家常用之11種中藥—人參(Ginseng Radix)、人參鬚(Ginseng Radix)、黃耆(Astragali Radix)、甘草(Glycyrrhizae Radix)、番瀉葉(Sennae Folium)、丹參(Salviae Miltiorrhizae Radix)、麥門冬(Ophiopogonis Radix)、桔梗(Platycodi Radix)、杜仲(Eucommiae Cortex)、黃芩(Scutellariae Radix)、葛根(Puerariae Radix)、白芷(Angelicae Dahuricae Radix)(如表2、圖2)，進行有機氯農藥殘留情形檢測。

九十七年度赴台灣各地青草藥店收集10家常用之10種青草藥—艾草、筆仔草(金絲草)、白花馬齒莧、紅田烏(蓮子草)、虎杖、絞股藍、煮飯花頭、五爪金英、山葡萄、洛神花(如表3、圖3)，及台灣各地中藥店收集11至13家常用之12種中藥—貝母(Fritillariae Thunbergii Bulbus)、延胡索(Corydalis Rhizoma)、金銀花(Lonicerae Flos)、香附(Cyperii Rhizoma)、黨參(Codonopsis Radix)、川芎(Chuanxiong Rhizoma)、柴胡(Bupleuri Radix)、續斷(Dipsaci Radix)、玄參(Scrophulariae Radix)、知母(Anemarrhenae Rhizoma)、白芍(Paeoniae Albae Radix)、甘草(Glycyrrhizae Radix)(如表4、圖4)，進行有機氯農藥殘留情形檢測。

### 二、農藥殘留檢驗方法

實驗方法係參考94年8月署授食字第0949424750號公告<sup>(31)</sup>及中國國家標準CNS總號13570類號N6276公告方法<sup>(32)</sup>，和常用食品檢驗方法專輯(五)<sup>(33)</sup>，進行常用農藥檢測。

#### (一) 藥材前處理：

取檢品粉末約3克，精確稱定，加入去離子水20 mL，混合均勻後靜置10分鐘，加入丙酮50 mL，震盪萃取5分鐘，抽氣過濾至濃縮瓶中，重複三次，將濾液合併，減壓濃縮至無有機溶媒。加入10%食鹽水30 mL及正己烷50 mL清洗濃縮瓶後，移入分液漏斗中，震盪萃取後靜置分層，將下層之水層部分移入另一分液漏斗中，上層有機層經30 g無水硫酸鈉脫水後，收集於濃縮瓶內。分液漏斗之水層部分則加入氯化鈉3 g及正己烷50 mL振搖後，靜置分層，上層液經30 g無水硫酸鈉脫水後，合併於上述濃縮瓶中，減壓濃縮至

乾。精確量取正己烷5 mL溶解，並注入經正己烷5 mL潤洗之矽酸鎂固相萃取匣，以正己烷15 mL分三次沖提，收集溶出液，減壓濃縮至乾，精確量取正己烷溶解，供作檢液。(如圖5、圖6)

(二) 檢測有機氯農藥殘留之氣相層析儀條件：

1. 層析儀：Varian 3800 (Varian Associates, Inc., CA, U.S.A.)
2. 檢測器：電子捕獲式檢出器(Electron Capture Detector, ECD)
3. 層析管：DB-608毛細管，內徑0.53 mm x 30 m，內膜厚度1.5  $\mu$ m (J&W Scientific, CA, U.S.A)。

4. 氣相層析設定條件(定性分析)：

層析管溫度：

(1) 草藥及九十六年度中藥：初溫80°C，維持0.5分鐘，再以5.0°C/min昇溫至250°C維持21分鐘，總時間55.5分鐘。

(2) 九十七年度中藥：初溫150°C，維持1分鐘，再以5.0°C/min昇溫至275°C維持25分鐘，總時間31分鐘。

檢測器(GC-ECD)溫度：300°C

樣品手動注入器溫度：250°C

移動相氣體為氮氣流速：

草藥及九十六年度中藥—5.0 mL/min，九十七年度中藥—0.8 mL/min

注入量：1  $\mu$ L

5. 氣相層析設定條件(定量分析)：檢測器

(GC-ECD)溫度：250°C 樣品自動注入器

(Autosampler)溫度：240°C 層析管溫度：層

析管溫度：

(1) 草藥及九十六年度中藥：230°C。

(2) 九十七年度中藥：初溫150°C，維持1分鐘，再以5.0°C/min昇溫至275°C維持25分鐘，總時間31分鐘。

移動相氣體為氮氣流速：5.0 mL/min

注入量：1  $\mu$ L

(三) 鑑別試驗及含量測定：精確量取檢液及標準溶液1  $\mu$ L注入氣相層析儀及10  $\mu$ L注入高

效液相層析儀中，參照上列條件進行層析，就檢液與標準溶液所得波峰之滯留時間比較鑑別之，並另配製標準溶液按上述方法作出檢量線或由波峰面積，求出檢體中殘留農藥之含量(ppm)：

$$\text{檢體中殘留農藥之含量 (ppm)} = \frac{x}{M}$$

C：由各農藥檢量線或波峰面積求得檢液中各農藥之濃度( $\mu\text{g/mL}$ )。

V：檢體最後經定容之體積(1 mL)。

M：取樣分析檢體之重量(約3.0 g)。

### 三、比較不同農藥萃取方法：

使用方法：均質法。

使用機器及機型：Glas-Col，Cat. No. 099C K54。

實驗方法：精秤3 g的檢品粉末，分3次放入15 mL試管中，每次加入10 mL去離子水潤濕，以轉速4000 rpm，30 min將檢品均質後，放入125 mL附塞三腳瓶，加入丙酮50 mL，震盪萃取30分鐘後，抽氣過濾至濃縮瓶中，減壓濃縮後步驟同本實驗前處理。

## 參、結果

### 一、標準品六種濃度之檢量線

由於青草藥及中藥實驗時間不同，故標準曲線及檢量線必須於不同時間製作。

(一) 九十六年度：取標準品 1 ppm，500 ppb，250 ppb，125 ppb，62.5 ppb，30 ppb 等六點製備標準檢量線，標準品圖譜如圖 7。

(二) 九十七年度：

#### 1. 青草藥實驗

取標準品 1 ppm，500 ppb，250 ppb，125 ppb，62.5 ppb，30 ppb 等六點製備標準檢量線，標準品圖譜如圖 15，各農藥標準檢量線如圖 16-1 至圖 16-19，回歸係數分別如下： $\alpha$ -BHC= 0.998343、PCNB= 0.997302、 $\gamma$ -BHC= 0.996257、Heptachlor= 0.989260、Aldrin= 0.985184、 $\beta$ -BHC= 0.996744、 $\delta$ -BHC= 0.994982、Heptachlor epoxide= 0.988726、Endosulfan I= 0.990326、4,4'-DDE= 0.997229、Dieldrin= 0.989192、Endrin= 0.998450、4,4'-DDD= 0.997838、Endosulfan II= 0.991015、4,4'-DDT= 0.997100、Endrin aldehyde= 0.994322、Methoxychlor= 0.972799、Endosulfan sulfate= 0.998061、Endrin ketone= 0.996870。

#### 2. 中藥實驗

取標準品 1 ppm，500 ppb，250 ppb，125 ppb，62.5 ppb，30 ppb 等六點製備標準檢量線，標準品圖譜如圖 17，各農藥標準檢量線如圖 18-1 至圖 18-19，回歸係數分別如下： $\alpha$ -BHC= 0.997846、PCNB= 0.990350、 $\gamma$ -BHC= 0.998160、Heptachlor= 0.994665、Aldrin= 0.994581、 $\beta$ -BHC= 0.994732、 $\delta$ -BHC= 0.999402、Heptachlor epoxide= 0.998977、Endosulfan I= 0.994584、4,4'-DDE= 0.992745、Dieldrin= 0.998007、Endrin= 0.992985、4,4'-DDD= 0.993470、Endosulfan II= 0.995997、4,4'-DDT= 0.998753、Endrin aldehyde= 0.999296、Methoxychlor= 0.997502、Endosulfan sulfate= 0.997169、Endrin ketone= 0.994656。

### 二、有機氯農藥殘留檢測之再現性與精密度試驗

於標準品檢量線範圍內，選取 PCNB， $\alpha$ -BHC，DDE 三種農藥，各農藥再分別選取三種濃度 (30 ppb, 62.5 ppb, 125 ppb)，於同一日及不同的三天重複分析各三次，計算其相對標準差 (Relative standard

derivation, RSD)。所得之結果相對標準差(RSD)intraday的範圍為0.0192 ~ 0.2938%，interday的範圍為0.0620 ~ 0.2561%之間。全部數值均低於0.29%，顯示出本檢測之再現性與精密度極為良好。（結果如表5）

### 三、有機氯農藥殘留檢測結果

人參在總BHC之檢測方面有三家高於日本藥局方0.2 ppm之規定，其檢測值分別為214.6058 ppb, 200.6525 ppb, 403.3813 ppb。在Aldrin + Dieldrin之檢測方面有兩家高於歐盟50 ppb之規定，其檢測值分別為50.5990 ppb, 366.2027 ppb。人參鬚在11家檢品中檢測出有四個檢品之

PCNB超出歐盟限量標準

1 ppm 其檢測值分別為2247.6492 ppb, 1166.6187 ppb, 1076.0022 ppb, 1138.5178 ppb。在總DDT方面，無論依歐盟或中華人民共和國藥典之標準11家人參鬚均合於標準。在Heptachlor之檢測方面，11家人參鬚也均符合歐盟0.05 ppm之標準。在總BHC方面，有3家超過歐盟規定之0.9 ppm其檢測值分別為1507.4446 ppb, 1272.9798 ppb, 1146.0561 ppb。另外在Aldrin + Dieldrin中，11家僅有2家能符合歐盟規範之0.05 ppm，高於標準之檢測濃度分別為70.3512 ppb, 122.4808 ppb, 177.3369 ppb, 322.1615 ppb, 352.3678 ppb, 452.6130 ppb, 473.6095 ppb, 554.3756 ppb, 1075.2380 ppb。在Endrin殘留檢測方面，有1家完全檢測不出Endrin，另有5家超過歐盟限量標準，其檢測值分別為53.7675 ppb, 106.3574 ppb, 126.0050 ppb, 147.5012 ppb, 251.4876。番瀉葉在總DDT

之檢測方面有一家高於日本藥局方與中華中藥典0.2 ppm之規定，其檢測值為279.7882 ppb，在Aldrin + Dieldrin之檢測方面有兩家高於歐盟50 ppb之規定，其檢測值分別為61.2913 ppb, 62.1031 ppb。

雷公根在總Aldrin + Dieldrin之檢測方面有兩家高於歐盟50 ppb之規定，其檢測值分別為74 ppb, 94 ppb。

其餘黃耆、甘草、麥門冬、桔梗、杜仲、黃芩、葛根、白芷與丹參；車前草、鳳尾草、夏枯草、白鶴靈芝、黃蓮蕉、桑葉、酢醬草、羊帶來、金線蓮雖有零星檢出DDD, DDE, DDT,  $\alpha$ -BHC,  $\beta$ -BHC,  $\gamma$ -BHC,  $\delta$ -BHC, PCNB, Aldrin, Dieldrin, Endosulfan, Heptachlor等農藥殘留，但檢測值均遠低於目前歐盟、中華人民共和國藥典、日本藥局方、中華中藥典規定之限量標準。

九十七年度青草藥藥材檢品種類和數量分別有：艾草10個、筆仔草（金絲草）10個、白花馬齒莧10個、紅田烏（蓮子草）10個、虎杖10個、絞股藍（莖5個、葉10個）、煮飯花頭10個、五爪金英10個、山葡

萄10個、洛神花10個，合計10種、105個，其中檢測出禁用農藥者有：

(一) 艾草：

1. PCNB量：在10個檢品中，有3個都已超過歐盟標準1.0 ppm或是中華人民共和國藥典0.1 ppm，分別高達5521.9015 ppb（如圖19），7525.7882 ppb（如圖20），2288.6790 ppb（如圖21）。
2. 總BHC量：依照歐盟蔬果農藥殘留標準0.9 ppm之規範，10個檢品有2個過量，分別為3048.8414, 2969.3193 ppb，分析其中，前者的 $\beta$ -BHC達1141.2551 ppb（此項亦超過歐盟標準）， $\gamma$ -BHC量419.9172 ppb（如圖19）；後者的 $\delta$ -BHC達2315.4202 ppb（如圖21）；另外有一個檢品的 $(\alpha + \beta + \delta)$ -BHC 達到470.3600 ppb（如圖20），超過了歐盟所規範的0.3 ppm。
3. 總DDT量：按照歐盟標準1.0 ppm或中華人民共和國藥典及日本藥局方0.2 ppm，10個檢品有3個過量甚多，分別是4714.6370 ppb（如圖19），4470.5512 ppb（如圖20），5114.1802 ppb（如圖21）。
4. 總Aldrin + Dieldrin量：按照歐盟標準50 ppb，10個檢品有4個過量，分別是86.6856 ppb，2420.7063 ppb（如圖19），242.8865 ppb（如圖20），1851.6223 ppb（如圖21）。
5. Endrin量：按照歐盟標準50 ppb，10個檢品有3個過量，分別是2377.3257 ppb（如圖19），131.4546 ppb（如圖20），375.1981 ppb（如圖21）。
6. Heptachlor量：按照歐盟標準50 ppb，10個檢品有3個過量，分別是530.2732 ppb（如圖19），970.4249 ppb（如圖20），679.6699 ppb（如圖21）。

(二) 筆仔草：

1. 總Aldrin + Dieldrin量：按照歐盟標準50 ppb，10個檢品有5個過量，分別是77.7715 ppb（如圖22），1195.1610 ppb（如圖23），77.7689 ppb（如圖24），171.3689 ppb，73.8370 ppb。

(三) 白花馬齒莧

1. 總Aldrin + Dieldrin量：按照歐盟標準50 ppb，10個檢品有1個過量，其濃度為1489.1351 ppb（如圖25）。

(四) 絞股藍（葉）

1. Endrin量：按照歐盟標準50 ppb，10個檢品有2個過量，52.3339 ppb（如圖26），51.2066 ppb（如圖27）。

九十七年度中藥藥材檢品種類和數量分別有：貝母14個、延胡索12個、金銀花12個、香附13個、黨參13個、川芎12個、柴胡13個、續斷13個、玄參13個、知母12個、白芍12個、甘草12個，合計12種、151個，其中檢測出禁用農藥者有：

(一) 金銀花：

1. Heptachlor量：按照歐盟標準50 ppb，12個檢品有2個過量，其濃度為53.5271 ppb，55.4034 ppb（如圖30、表43）。

(二) 香附：

1. 總BHC量：因我國及、中華人民共和國藥典、日本藥局方均未對其規範，故參照歐盟對蔬果農藥殘留標準0.9 ppm，13個檢品有11個過量，有5個檢品甚至超過3 ppm（分別是3289.1258，3500.9359，3489.6547，3235.5667，3284.7578 ppb）（如圖31、表44）。再對各個檢品做進一步分析，發現全數對 $(\alpha + \beta + \delta)$ BHC含量均超過原標準0.3 ppm，13個檢品中也有9個檢品對 $\gamma$ -BHC含量超過原標準0.6 ppm（分別是912.3202，1482.5323，1413.6054，731.6812，978.3980，1555.5734，1768.9438，797.4712，1171.6295 ppb）（如表44）。
2. 總Aldrin + Dieldrin量：按照歐盟標準50 ppb，13個檢品有9個過量，其濃度分別為96.0974，54.6147，142.3382，66.7391，87.3632，153.0644，172.8308，71.6052，122.2372 ppb（如表44）。
3. Endrin量：按照歐盟標準50 ppb，13個檢品有11個過量，其濃度分別為136.2276，177.4229，50.5641，374.9811，193.5363，50.1580，475.0580，789.6397，61.6174，121.6585，202.6193 ppb（如表44）。
4. Heptachlor量：按照歐盟標準50 ppb，13個檢品有10個過量，其濃度分別為72.9515，58.8757，92.4116，63.5822，275.4702，118.5363，229.8192，226.6363，169.2471，106.9734 ppb（如表44）。

(三) 川芎：

1. 總Aldrin + Dieldrin量：按照歐盟標準50 ppb，12個檢品有1個過量，其濃度為56.1887 ppb（如表46）。
2. Endrin量：按照歐盟標準50 ppb，12個檢品有5個過量，其濃度分別為106.8442，187.8964，109.6521，195.1355，85.2870 ppb（如表46）。

(四) 知母：

1. Endrin量：按照歐盟標準50 ppb，12個檢品只有有1個過量，其濃度為70.2472 ppb（如表50）。

四、人參鬚經過輻射照射後農藥殘留檢測結果

將5家檢測出農藥較高之人參檢品，送至國立清華大學原子科學技術發展中心請周鳳英教授代為進行Gamma射線輻射照射20 kGy後，進行有機氯農藥殘留檢測，其結果如表29所示。結果顯示，大部分檢品在輻射照射過後，DDD，DDE，DDT， $\alpha$ -BHC， $\beta$ -BHC， $\gamma$ -BHC， $\delta$ -BHC，PCNB，Aldrin，Dieldrin等農藥都有顯著的下降趨勢，唯有檢品4的PCNB在輻射照射後，其濃度由433.8373 ppb升為609.5229 ppb、檢品5之總BHC在輻射照射後，其濃度由1195.8592 ppb升為1651.3929，可能與實驗取樣數太少有關，應再多做幾個相同檢品來確認。

五、比較不同萃取檢品中農藥之前處理方法：如表53、54。

- (一) PCNB：我國對於人參鬚含PCNB的限量標準為1.0 ppm。未均質的人參鬚檢品，有2、3、4號過量，濃度分別為1165.5721，1296.7890，4632.6943 ppb；均質後的人參鬚檢品，只有1號過量(6900.2003 ppb)。
- (二) 總BHC：我國對於人參鬚含總BHC的限量標準為1.0 ppm。未均質的人參鬚檢品，只有6號過量(1151.6558 ppb)；均質後的人參鬚，只有1號過量(1687.3181 ppb)。
- (三) 總DDT：均合格。
- (四) 總Aldrin + Dieldrin：參考歐盟的有機氯農藥殘留規定之50 ppb標準，未均質的人參鬚檢品1、2、3、4、5、8、9、10、11號過量，濃度分別為431.4903，730.4360，1128.0227，1598.0522，57.0148，145.7597，260.8805，404.4850，618.9680 ppb；均質後的人參鬚檢品1、2、3、4、9、10、11號過亮，濃度分別為4724.6203，539.0409，781.8053，113.0209，106.2540，127.8591，385.8865 ppb。
- (五) Endrin：參考歐盟的有機氯農藥殘留規定之50 ppb標準，未均質的人參鬚檢品1、4號過量，濃度為171.4862，76.5959 ppb；均質後的人參鬚只有檢品1號過量(98.0824 ppb)。其餘檢品雖有部分有機氯農藥殘留，但均未超過相關規定之限量標準。



## 肆、討論

目前世界各國對農藥殘留限定標準如表6所示，彼此間有些許差異，整理歐盟、中國、日本以及台灣之規範<sup>(34,35)</sup>如下：因WHO世界衛生組織針對植物性藥規定Aldrin及其三環氧化物Dieldrin，之總量不得大於0.05 ppm<sup>(36)</sup>，因此在歐盟針對蔬果訂定之農藥殘留限量標準(MRL)中Aldrin與Dieldrin總量也不得大於0.05 ppm，歐盟尚有規定總DDT不得大於1.0 ppm，PCNB不得高於1.0 ppm，總BHC不得大於0.9 ppm（ $\gamma$ -BHC不得大於0.6 ppm），Hexachlorobenzene不得大於0.1 ppm，Chlordane不得大於0.05 ppm，Endrin不得大於0.05 ppm，Heptachlor不得大於0.05 ppm<sup>(37)</sup>。

在中國大陸2005年版中華人民共和國藥典中對有機氯農藥殘留僅對甘草及黃耆兩個品項有規範：規定六六六（總BHC）不得大於0.2 ppm，滴滴涕（總DDT）不得大於0.2 ppm，五氯硝基苯(PCNB)不得大於0.1 ppm<sup>(39)</sup>。日本藥局方解說書第十四改正版中對紅參、白參、番瀉葉均規範總BHC、總DDT之含量不得大於0.2 ppm<sup>(39)</sup>。

而台灣傳統藥典（中華中藥典）僅規範番瀉葉之總BHC、總DDT之含量不得大於0.2 ppm，其他品項尚未規範<sup>(40)</sup>。因此本研究在青草藥，與各國藥典均未規範的中藥方面之標準均比照歐盟之蔬果農藥殘留標準來討論。

另外，在原計畫執行過程，在購買藥材後需將藥材放置暗處陰乾之，但在蘆薈品項方面，因為陰乾兩個星期之後並沒有乾枯或枯黃之現象，由於特殊的表皮結構，以致內層水份無法散發，在未乾的情況下難以執行後續動作。後繼將該藥材切片後再陰乾之，由於蘆薈葉中水分占約96%，經過兩個多星期之陰乾，原二兩之蘆薈葉已所剩無幾；再者，蘆薈葉將其切片後，其原內含的農藥殘留物可能已大量流失，若將該藥材放置錫箔紙上收集蘆薈液，此法可避免農藥殘留物流失，但本實驗方法並不能將陰乾後的錫箔紙隨該藥材秤重之，因此原實驗之藥材建議另尋實驗方法或處理。

後來將蘆薈替換成金線蓮原因如下：一、金線蓮並沒有原藥材水份難以散失或是內含水分過多之情況，且購得後多為乾品，無須改變原實驗之實驗方法。二、金線蓮為近幾年來廣受各界探討之青草藥，對於人體具多種療效，民間使用範圍廣泛，比起蘆薈其更為昂貴，使用方式以全草服用之，加上目前以人工栽培居多，對於民眾之用藥安全而言，更須有了解其農藥殘留之急迫性。

在精油干擾方面，不可否認部分中藥材含有精油可能會干擾到檢測，但本方法在氣相層析檢測器方面選擇針對鹵素靈敏度最高的ECD檢測器，該檢測器對鹵素之感度與單純的有機物質相差幾百到幾千倍，況且精油成分與農藥成分沸點相差甚巨，昇溫過程中，尚未到達100°C精油應該都出來了；並在30公尺長的毛細管柱中，應該會分的非常開，在很前端就會分離出來，基本上應該不會干擾到農藥之檢測。

另外，在中國大陸部分種植人參之地區，迄今仍繼續使用五氯硝基苯(PCNB)等高殘留毒性的有機氯農藥，雖然中國官方已禁止使用，但民間仍光明正大的使用，也有廠商在生產。去年即有台灣中藥商帶回大陸農民使用PCNB之影片，也許就是如此，台灣購買到的部分人參PCNB檢測值超過標準之現象。(如圖14)

表55及表56，分別列出不符合各國標準規定的藥材檢品件數及不合格率。我們發現有三成以上艾草檢品測得超出中華中藥典、日本藥局方、中國藥典規範的總DDT、總BHC、PCNB農藥殘留標準。除 $\gamma$ -BHC外，也有三成以上的艾草檢品超過歐盟所制定的各項農藥殘留標準。中藥材中，約七成以上香附的檢品無法合乎歐盟檢測的BHC、Aldrin+Dieldrin、Endrin和Heptachloride農藥標準。由於歐盟訂定Aldrin+Dieldrin和Endrin殘留量較嚴格，均為50 ppb，因此艾草、筆仔草、白花馬齒莧、絞股藍、香附、川芎、知母等藥材都有部份檢品不合格，其中筆仔草和香附檢品的Aldrin+Dieldrin不合格率超過五成。

本研究初步得到部分的艾草檢品含有DDT類、BHC類和PCNB農藥殘留，多數的香附檢品含有BHC類、Aldrin+Dieldrin、Endrin和Heptachloride農藥殘留，但是未經過氣相質譜分析(GC-Mass)再確認；如確認後仍維持此情形，即表示這些藥材進口時需要更嚴格把關。

在比較不同萃取方法實驗方面，未均質與均質後檢品誤差甚大。原預期同一個檢品均質前和均質後，同一種農藥，應會相同增加或減少，但是結果卻是有的增加有的減少；經檢視後發現，可能是使用了不同批次人參檢品而造成的，因此近日內將重新再做一次。

另外，在原九十七年度計畫執行過程時，青草藥檢測原為蚌蘭、一支黃花及牛鞭草，後將三種抽換為五爪金英、山葡萄、洛神花，業已經過衛生署中醫藥委員會核可(如附錄三、四)，抽換原因如下：

#### 一、蚌蘭：

一般蚌蘭為台灣極為常見園藝觀賞用之植物，由於耐旱性強，在強光下栽培，葉色轉為紫紅暈彩，優雅悅目，無論盆栽或庭園美化均值得

推廣。此類植物對光線適應性廣，在強光下或蔭蔽處均能成長，多當作室內植物觀賞。在採購草藥樣品過程中，店家多半建議消費者於街頭巷尾蒐集，多半於街道分隔島或公園多有種植，由於取得容易，此類植物並沒有太高之商業價值、幾乎沒有販賣，若於非店家處採集並實驗，即偏離本實驗之框架。

## 二、一枝黃花：

通常生長環境於中海拔之台灣山區，如合歡山、玉山等處，Solidago L.屬全世界多達125種，採購期間於北中南各大青草藥行實地採買，但最終難以蒐集齊全，又由於蒐集樣品多為乾品，初步難以鑑定是否為本實驗需要之真品，經採買後鑑定發現乾品裡亦有近來到處肆虐的加拿大一枝黃花，與本實驗需要之植物種作比較，兩者為不同種，更不能混為一談，鑑定後最後終究僅蒐集到3個，此檢品量不足，難以續作實驗。

## 三、牛軋草（肝炎草）：

經多處採購後發現，本土青草藥行多半不明白牛軋草之植物，更不瞭解其科名、屬名及種名，但若提及需要肝炎草，一般店家卻都聲稱有之。原因在於別名，此通稱帶來極大困擾，肝炎為本國國病，每地區或店家之青草藥行使用之草藥均為不同，但於店家認知裡，其販賣之藥草確實有治療肝炎之效果，因此稱為肝炎草，但事實上與本實驗需要之「牛軋草」，可說是完全迥異之植物，屬不同、科不同，蒐集需要10個檢品量，卻多達4、5種的不同檢品，此條件下難以後續動作。

## 伍、結論與建議

因青草藥在國內並沒有相關之規範，而在民間一般民眾於西醫療效不佳或求治無效後，卻會選擇青草藥當成另類療法，本研究接續 CCMP96-RD-004 之計畫陸續檢測台灣市售 10 種青草藥及 12 種中藥之有機氯農藥殘留，發現絕大多數青草藥檢品之農藥殘留值低於各國之農藥殘留限量標準，我國在中草藥藥材農藥殘留標準裡，僅 2004 年版之中華中藥典訂定了番瀉葉總 BHC、總 DDT 限量標準。2006 年行政院衛生署公告含中藥材製劑中，人參、甘草、黃耆、番瀉葉的總 BHC、總 DDT、PCNB 限量（如表 3 及附件）。與鄰近的日本及中國相比，我國規範藥材品項較少也較不嚴格。例如：2006 年衛生署規範含人參製劑中，人參的總 BHC 含量為 0.9 ppm，中華中藥典中未規範；但是日本藥局方第十四(2001)、十五(2006)版均訂為 0.2 ppm。因此本計畫除可具體提供我國衛生機關制定中草藥材農藥殘留限量標準的品項外，亦可制定較嚴謹的限量濃度，以維我國人民使用中草藥之安全。

由本計畫實驗結果得知，艾草和香附的農藥殘留量均偏高，尤其香附檢品在總 BHC、總 Aldrin+Dieldrin、Endrin、Heptachloride 方面均有八成以上不合格。這兩項藥材，鄰近各國僅日本有規範香附子的重金屬限量值，至目前為止亦無國家對艾草和香附有農藥限量規範。而其他中藥或青草藥是否有農藥殘留，值得未來進一步檢測確認，因此建議宜參考歐洲或日本等先進國家，儘快制定較嚴格的國家標準，仔細把關藥材進口，以保障民眾用藥安全。本研究可提供衛生主管單位對中草藥農藥殘留限量制定標準、Maximum allowable 量等之參考，如查到不合格的中草藥，可以積極取締並阻止上市。另可提供將來編修台灣傳統藥典相關農藥殘留限量數據，具實際應用價值。

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## 柒、圖、表

表1、九十六年度檢測之青草藥品項

編號	名稱	科名	學名
1.	車前草	Plantaginaceae	<i>Plantago asiatica</i> L.
2.	鳳尾草	Pteridaceae	<i>Pteris multifida</i> Poiret
3.	夏枯草	Labiatae	<i>Prunella vulgaris</i> L. subsp. <i>asiatica</i> (Nakai) H. Hara var. <i>asiatica</i>
4.	白鶴靈芝	Acanthaceae	<i>Rhinacanthus nasutus</i> (L.) Kurz
5.	黃蓮蕉	Cannaceae	<i>Canna faccida</i> Salisb
6.	桑葉	Moraceae	<i>Morus alba</i> L.
7.	雷公根	Umbelliferae	<i>Centella asiatica</i> (Linn.) Urban
8.	酢漿草	Oxalidaceae	<i>Oxalis corniculata</i> L.
9.	金線蓮	Orchidaceae	<i>Anoectochilus formosanus</i> Hayata
10.	羊帶來	Compositae	<i>Xanthium strumarium</i> Linn.

表2、九十六年度檢測之中藥品項

編號	名稱	科名	基原
1.	人參	Araliaceae	人參 <i>Panax ginseng</i> C.A. Meyer 之乾燥根
2.	黃耆	Leguminosae	蒙古黃耆 <i>Astragalus membranaceus</i> (Fisch.) Bge. var. <i>mongholicus</i> (Bge.) Hsiao 或膜莢黃耆 <i>Astragalus membranaceus</i> (Fisch.) Bge. 之乾燥根
3.	甘草	Leguminosae	甘草 <i>Glycyrrhiza glabra</i> L. 或其他同屬別種植物之乾燥根及根莖
4.	番瀉葉	Leguminosae	狹葉番瀉 <i>Cassia angustifolia</i> Vahl 或尖葉番瀉 <i>C. acutifolia</i> Del. 的小葉
5.	麥門冬	Liliaceae	麥冬 <i>Ophiopogon japonicus</i> (L. f.) Ker- Gawl 之乾燥塊根
6.	桔梗	Campanulaceae	桔梗 <i>Platycodon grandiflorum</i> (Jacq.) A. DC. 之乾燥根
7.	杜仲	Eucommiaceae	杜仲 <i>Eucommia ulmoides</i> Oliv. 之乾燥樹皮
8.	黃芩	Labiatae	黃芩 <i>Scutellaria baicalensis</i> Georgi 之乾燥根
9.	葛根	Leguminosae	野葛 <i>Pueraria lobata</i> (Willd.) Ohwi 之乾燥根
10.	白芷	Umbelliferae	白芷 <i>Angelica dahurica</i> Benth. et Hook. f. var. <i>pai-chi</i> Kimura Hata et Shan et Yuan 或台灣白芷 <i>Angelica dahurica</i> Benth. et Hook. f. var. <i>formosana</i> Yen 之乾燥根。
11.	丹參	Labiatae	丹參 <i>Salvia miltiorrhiza</i> Bge. 之乾燥根及根莖

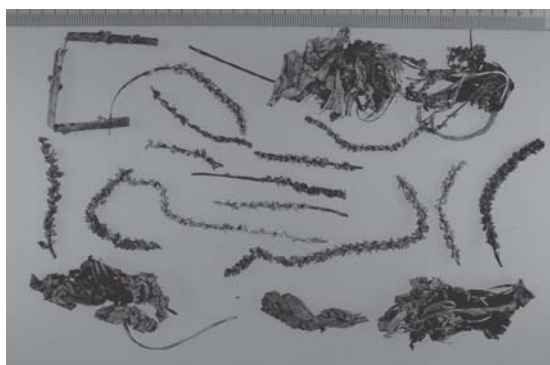


表3、九十七年度檢測之青草藥品項

編號	名稱	科名	學名
1.	艾草	Compositae	<i>Artemisia princeps</i> Pamp. var. <i>orientalis</i> (Pamp) Hara
2.	筆仔草 (金絲草)	Gramineae	<i>Pogonatherum crinitum</i> (Thunb.) Kunth
3.	白花馬齒莧	Portulacaceae	<i>Portulaca oleracea</i> Linn.
4.	紅田烏 (蓮子草)	Amaranthaceae	<i>Alternanthera sessili</i> (L.) R. Brown
5.	虎杖	Polygonaceae	<i>Polygonum cuspidatum</i> Sieb. et Zucc.
6.	絞股藍	Curcubitaceae	<i>Gynostemma pentaphyllum</i> (Thunb.) Makino
7.	煮飯花頭	Nyctaginaceae	<i>Mirabilis jalapa</i> Linn.
8.	五爪金英 (莖部)	Compositae	<i>Tithonia diversifolia</i> (Hemsl.) A. Gray
9.	山葡萄 (莖部)	Vitaceae	<i>Ampelopsis brevipedunculata</i> var. <i>hancei</i> (Planch.) Li
10.	洛神花 (花冠部)	Malvaceae	<i>Hibiscus sabdariffa</i> L.

表4、九十七年度檢測之中藥品項

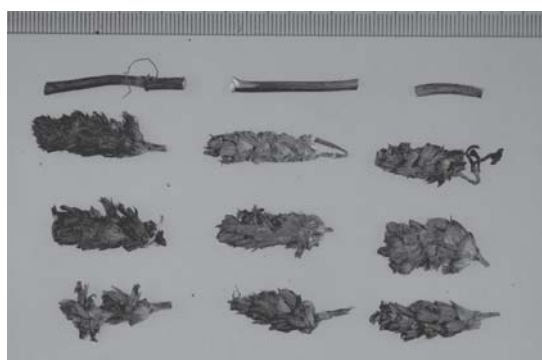
編號	名稱	科名	基原
1.	貝母	Liliaceae	浙貝母 <i>Fritillaria thunbergii</i> Miq. 之乾燥鱗莖
2.	延胡索	Papaveraceae	延胡索 <i>Corydalis yanhusuo</i> W. T. Wang 之乾燥塊莖
3.	金銀花	Caprifoliaceae	忍冬 <i>Lonicera japonica</i> Thunb. 之乾燥花蕾
4.	香附	Cyperaceae	植物莎草 <i>Cyperus rotundus</i> L. 之乾燥根莖
5.	黨參	Campanulaceae	黨參 <i>Codonopsis pilosula</i> (Franch.) Nannf.
6.	川芎	Umbelliferae	川芎 <i>Ligusticum chuanxiong</i> Hortorum 之乾燥根莖
7.	柴胡	Umbelliferae	柴胡 <i>Bupleurum chinense</i> DC. 或狹葉柴胡 <i>Bupleurum scorzonerifolium</i> Willd. 之乾燥根
8.	續斷	Dipsacaceae	川續斷 <i>Dipsacus asperoides</i> C. Y. Cheng et T. M. Ai 之乾燥根
9.	玄參	Scrophulariaceae	玄參 <i>Scrophularia ningpoensis</i> Hemsl. 之乾燥根
10.	知母	Liliaceae	知母 <i>Anemarrhena asphodeloides</i> Bunge 之乾燥根
11.	白芍	Ranunculaceae	芍藥 <i>Paeonia lactiflora</i> Pall. 之乾燥根
12.	甘草	Leguminosae	甘草 <i>Glycyrrhiza glabra</i> L. 或其他同屬別種植物之乾燥根及根莖



車前草(*Plantago asiatica*)



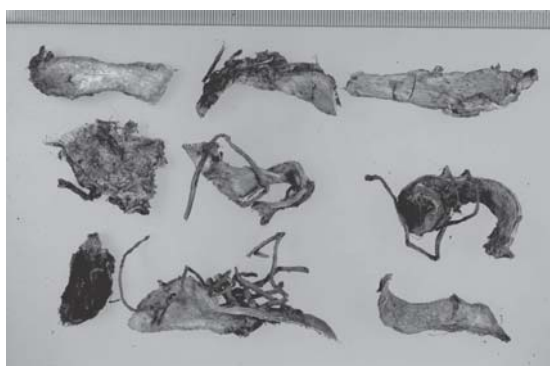
鳳尾草(*Pteris multifida*)



夏枯草(*Prunella vulgaris*)



白鶴靈芝(*Rhinacanthus nasutus*)



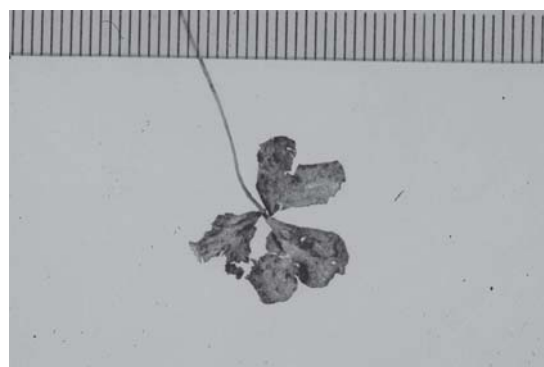
黃蓮蕉(*Canna faccida*)



桑葉(*Morus alba*)

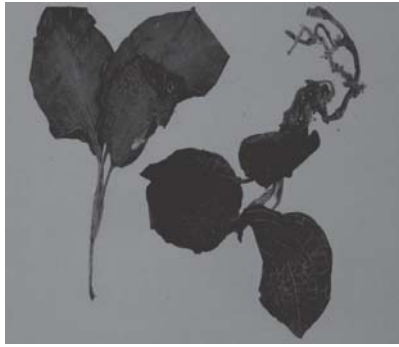


雷公根(*Centella asiatica*)

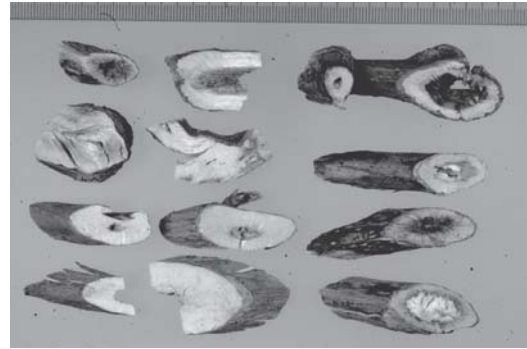


酢漿草(*Oxalis corniculata*)

圖1 九十六年青草藥檢品藥材圖片



金線蓮(*Anoectochilus formosanus*)

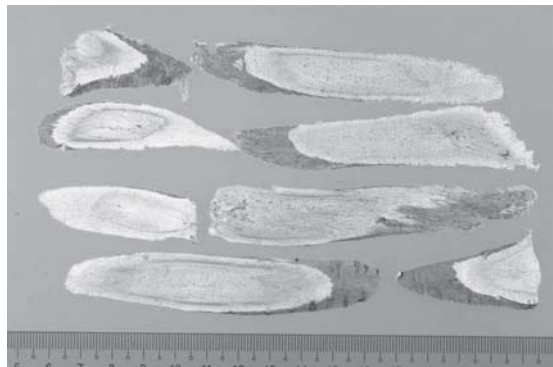


羊帶來(*Xanthium strumarium*)

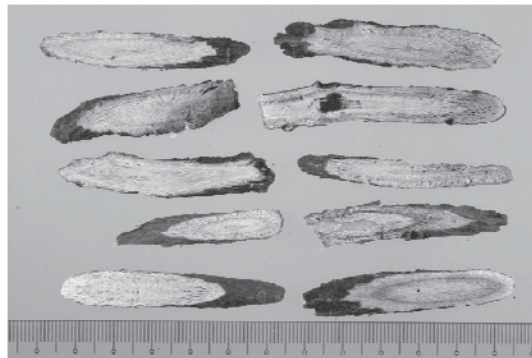
圖1 九十六年青草藥檢品藥材圖片(續)



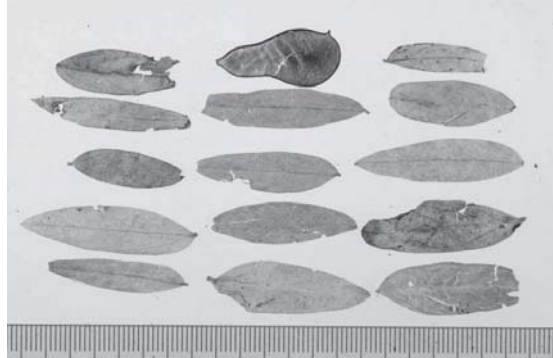
人參 *Ginseng Radix*



黃耆 *Astragali Radix*



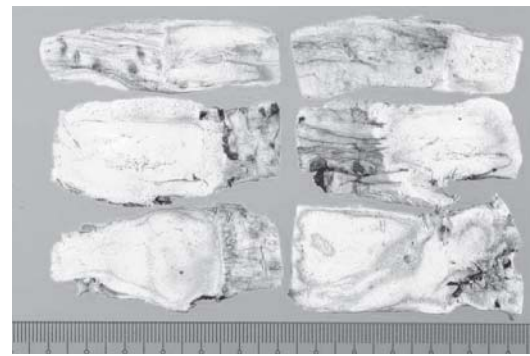
甘草 *Glycyrrhizae Radix*



番瀉葉 *Sennae Folium*

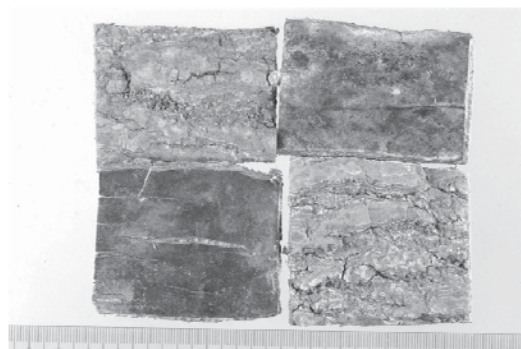


麥門冬 *Ophiopogonis Radix*

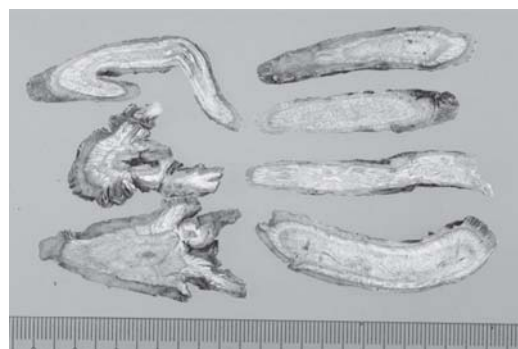


桔梗 *Platycodi Radix*

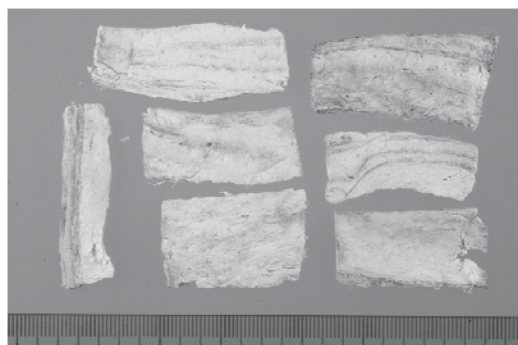
圖2 九十六年中藥檢品藥材圖片



杜仲 *Eucommiae Cortex*



黃芩 *Scutellariae Radix*



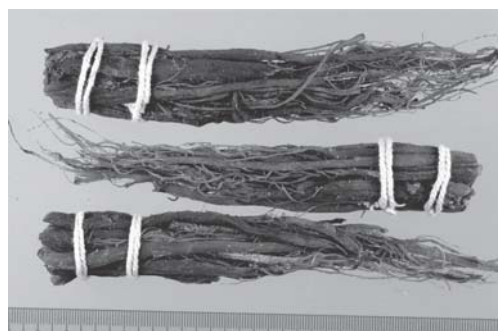
葛根 *Puerariae Radix*



白芷 *Angelicae Dahuricae Radix*

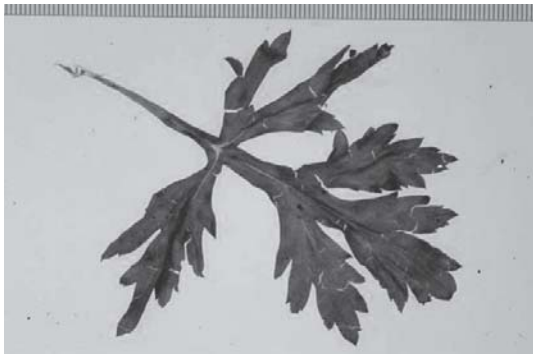


丹參 *Salviae Miltiorrhizae Radix*

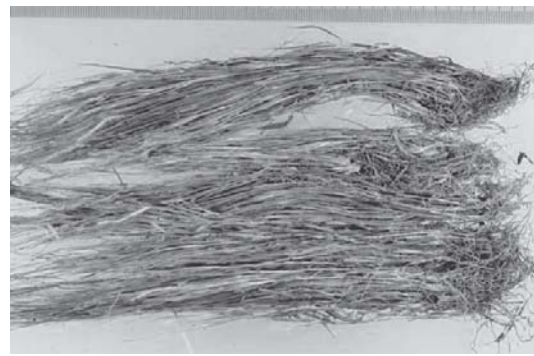


人參鬚 *Ginseng Radix (Rootlets)*

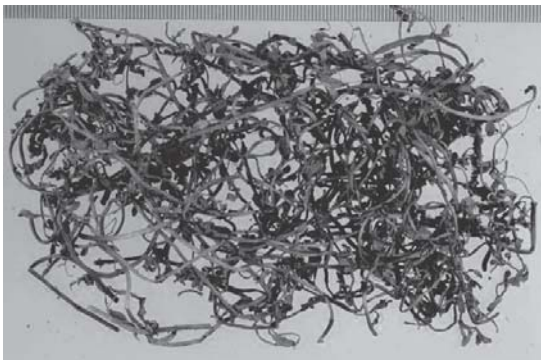
圖2 九十六年中藥檢品藥材圖片(續)



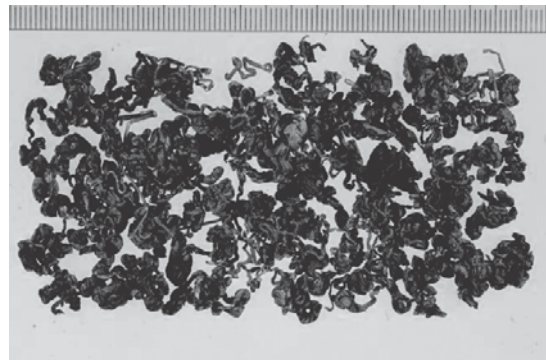
艾草(*Artemisia princeps*)



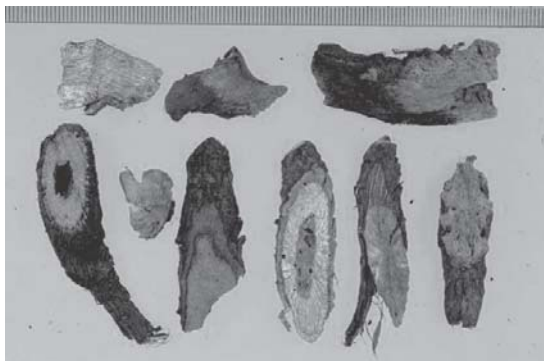
筆仔草(金絲草)(*Pogonatherum crinitum*)



白花馬齒莧(*Portulaca oleracea*)



絞股藍(葉)(*Gynostemma pentaphyllum*)

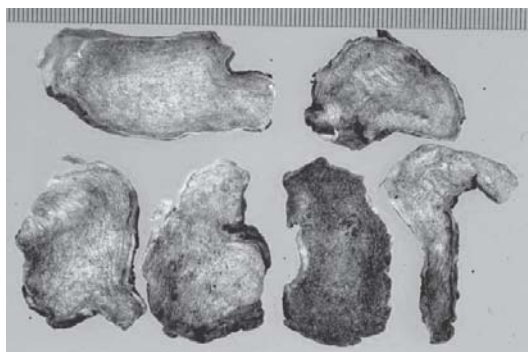


虎杖(*Gynostemma pentaphyllum*)

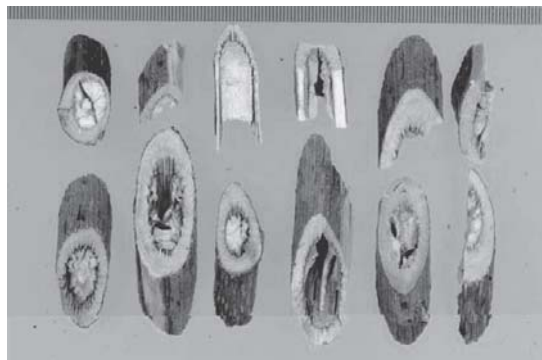


絞股藍(莖)(*Gynostemma pentaphyllum*)

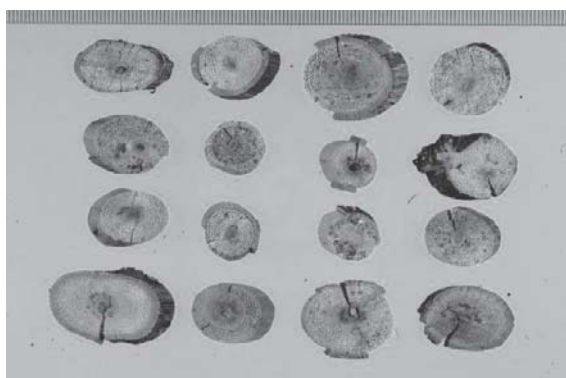
圖3 九十七年青草藥藥材檢品圖片



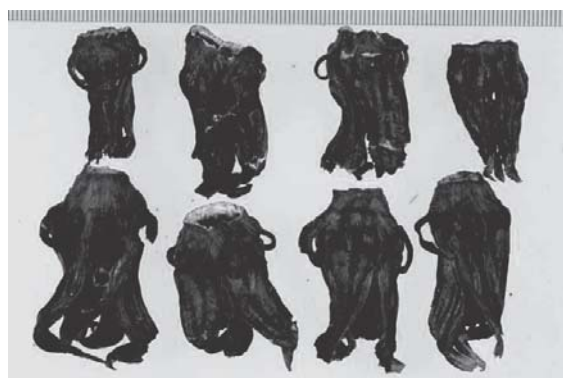
煮飯花頭(*Mirabilis jalapa*)



五爪金英(莖部)(*Tithonia diversifolia*)

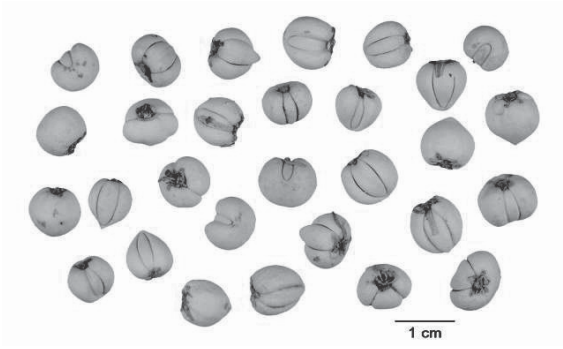


山葡萄(莖部)(*Ampelopsis brevipedunculata*)



洛神花(花冠部)(*Hibiscus sabdariffa*)

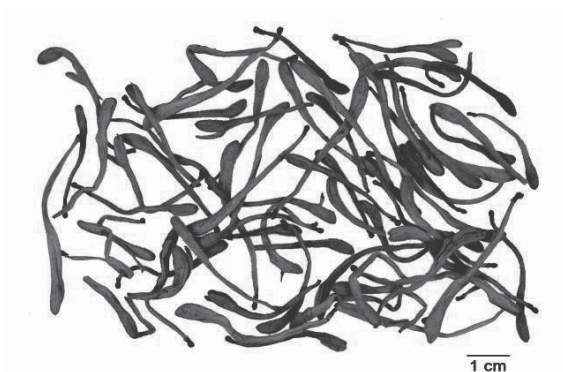
圖3 九十七年青草藥藥材檢品圖片(續)



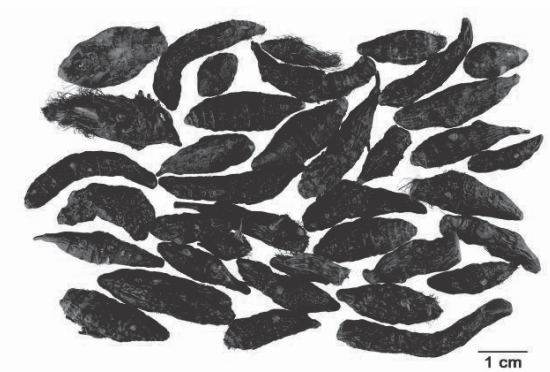
貝母(*Fritillariae Thunbergii Bulbaceous*)



延胡索(*Corydalis Rhizoma*)



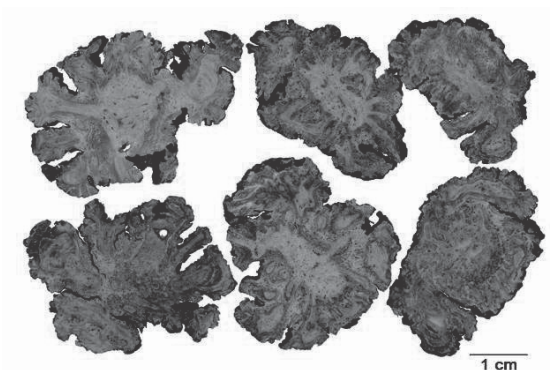
金銀花(*Lonicerae Flos*)



香附(*Cyperi Rhizoma*)

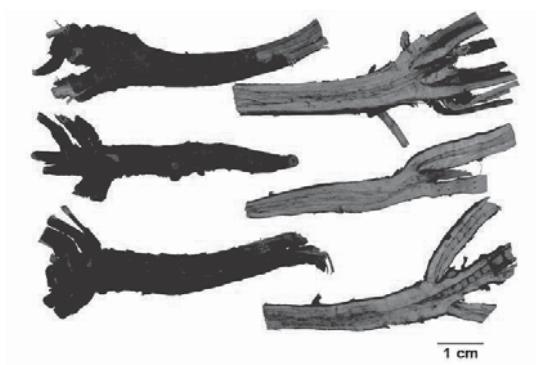


黨參(*Codonopsis Radix*)



川芎(*Chuanxiong Rhizoma*)

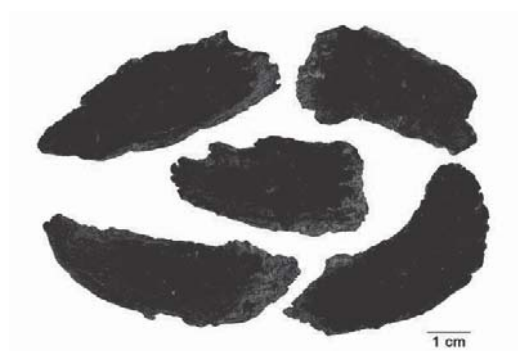
圖4 九十七年中藥藥材檢品圖片



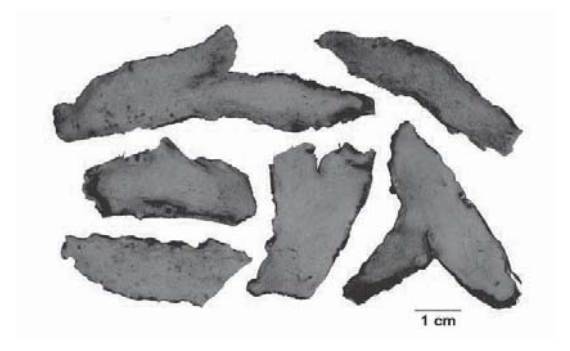
柴胡(*Bupleuri Radix*)



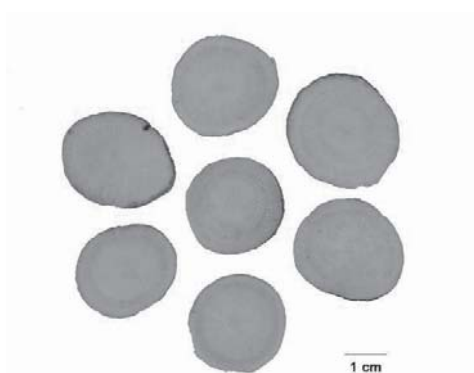
續斷(*Dipsaci Radix*)



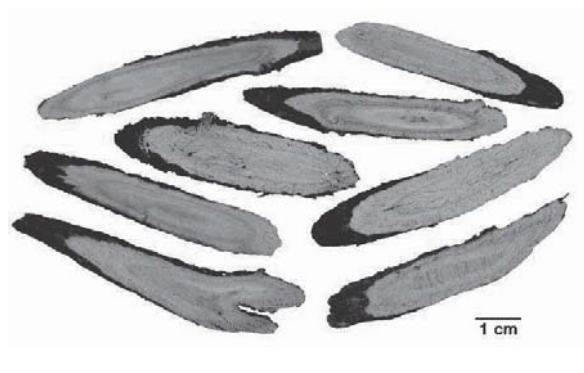
玄參(*Scrophulariae Radix*)



知母(*Anemarrhenae Rhizoma*)



白芍(*Paeoniae Albae Radix*)



甘草(*Glycyrrhizae Radix*)

圖4 九十七年中藥藥材檢品圖片(續)



表5、農藥殘留檢測之再現性與精密度試驗

PCNB

\*n = 3

Conc.	Intraday R.S.D. %	Interday R.S.D. %
30 ppb	0.159679	0.062036
62.5 ppb	0.077496	0.133655
125 ppb	0.019242	0.21558

 $\alpha$ -BHC

\*n = 3

Conc.	Intraday R.S.D. %	Interday R.S.D. %
30 ppb	0.069052	0.07559
62.5 ppb	0.036031	0.133655
125 ppb	0.019345	0.121958

4,4' -DDE

\*n = 3

Conc.	Intraday R.S.D. %	Interday R.S.D. %
30 ppb	0.136382	0.113532
62.5 ppb	0.293788	0.132086
125 ppb	0.150426	0.256064

表6、各國藥典中對有機氯農藥殘留規定之限量標準

國家 MRL(ppm)	歐盟 (蔬果農藥 殘留標準)	大陸 (甘草、 黃耆)	日本 (黃耆、番瀉葉、番瀉葉 末、紅參、人參、人參末、 遠志、遠志末、細辛、肉桂 (桂皮)、桂皮末、山茱 萸、紫蘇葉、大棗、陳皮、 枇杷葉、牡丹皮、牡丹皮 末、甘草、甘草末)	台灣 (番瀉葉)
總BHC	—	0.2	0.2	0.2
總DDT	1.0	0.2	0.2	0.2
PCNB	1.0	0.1	—	—
Aldrin +Dieldrin	0.05	—	—	—
BHC ( $\alpha, \beta, \gamma$ )	0.3	—	—	—
$\gamma$ -BHC	0.6	—	—	—
Hexachlorobenzene	0.1	—	—	—
Chlordane	0.05	—	—	—
Endrin	0.05	—	—	—
Heptachlor	0.05	—	—	—

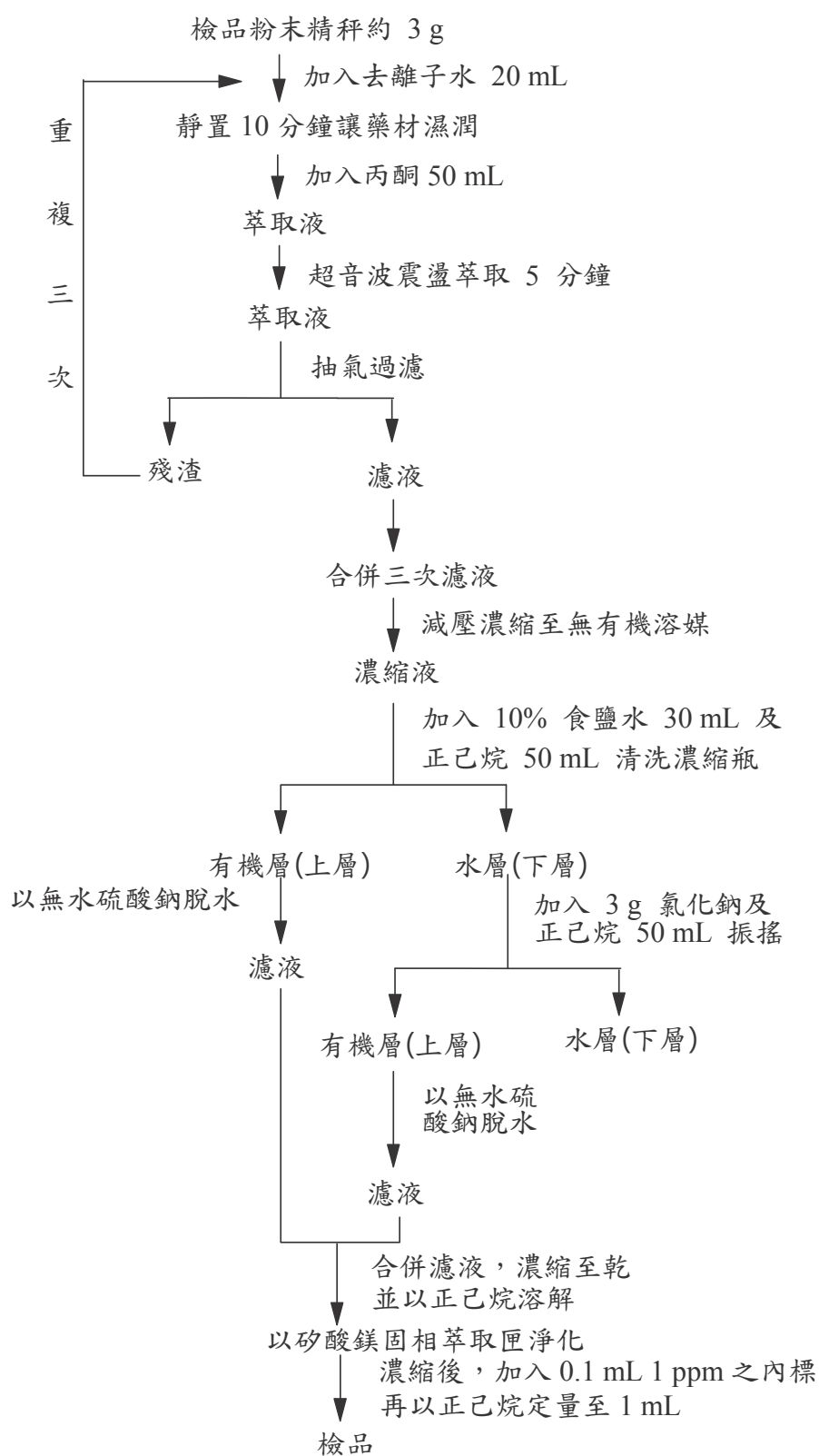


圖5 有機氯農藥殘留檢測，檢品前處理流程圖



烘烤未切製的中藥材



趁熱切製藥材



超音波震盪萃取



抽氣過濾裝置



液液分層萃取



固相萃取裝置

圖6 有機氯農藥殘留檢測，檢品前處理圖

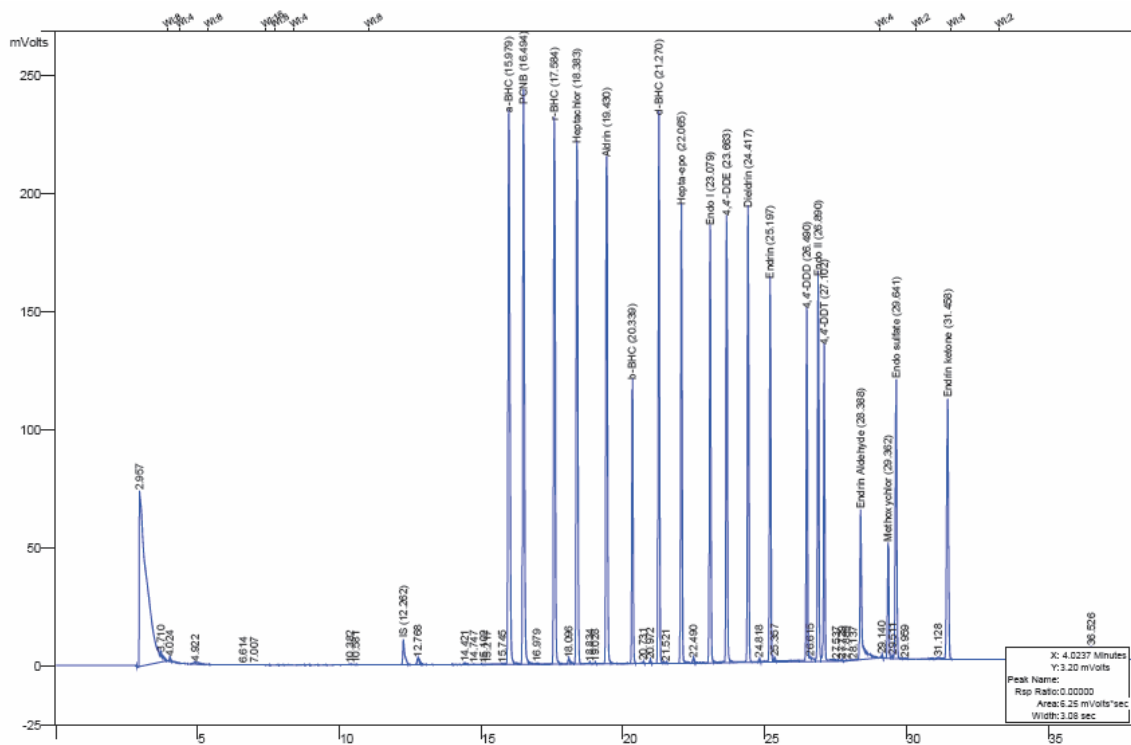


圖7 九十六年農藥標準品圖譜(1 ppm)

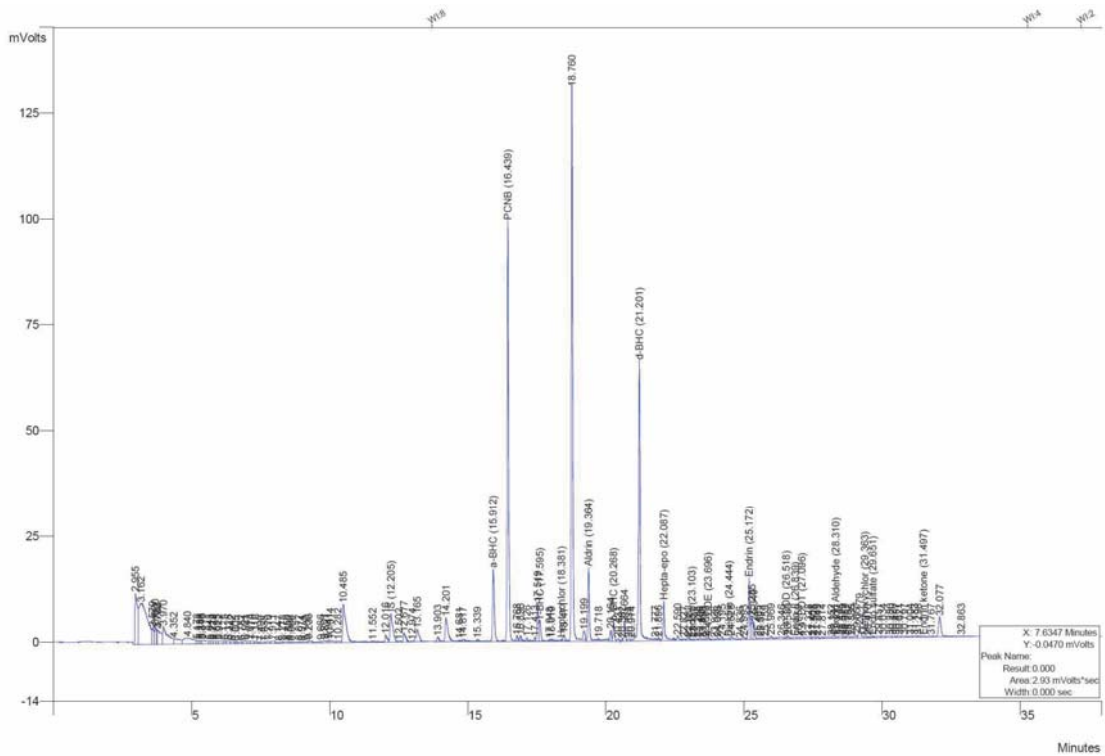
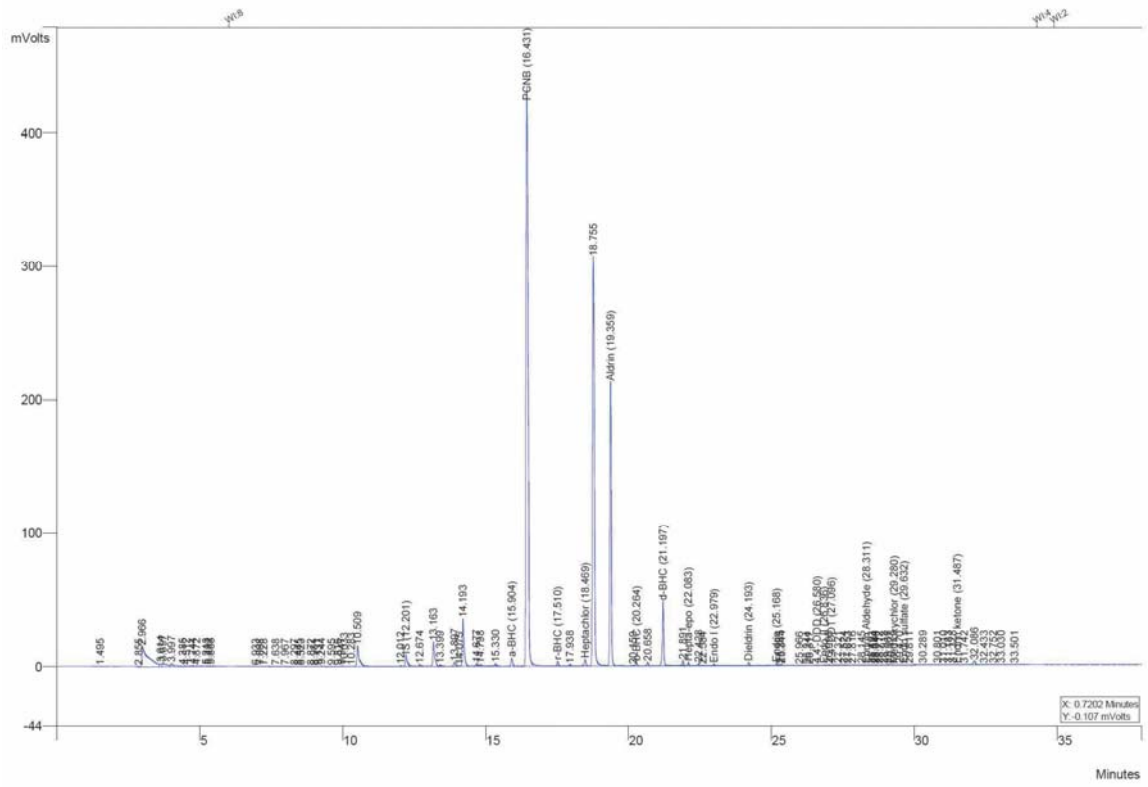


圖8 人參氣相層析圖譜 I



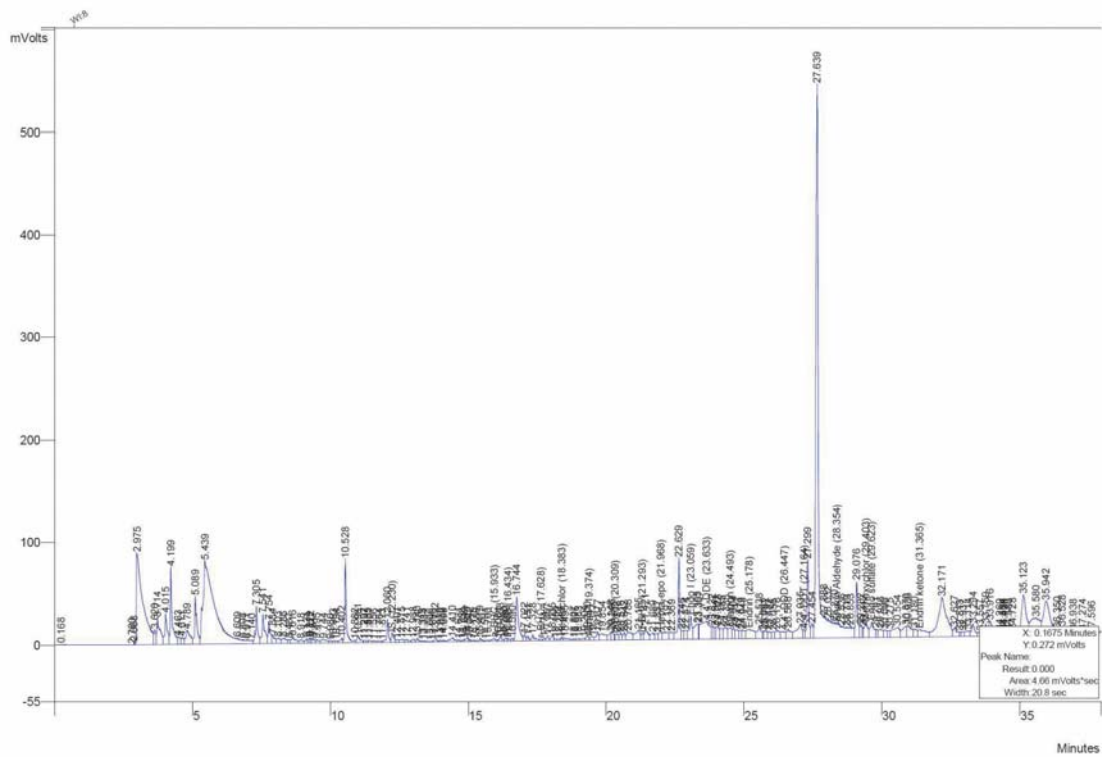


圖11 番瀉葉氣相層析圖譜 I

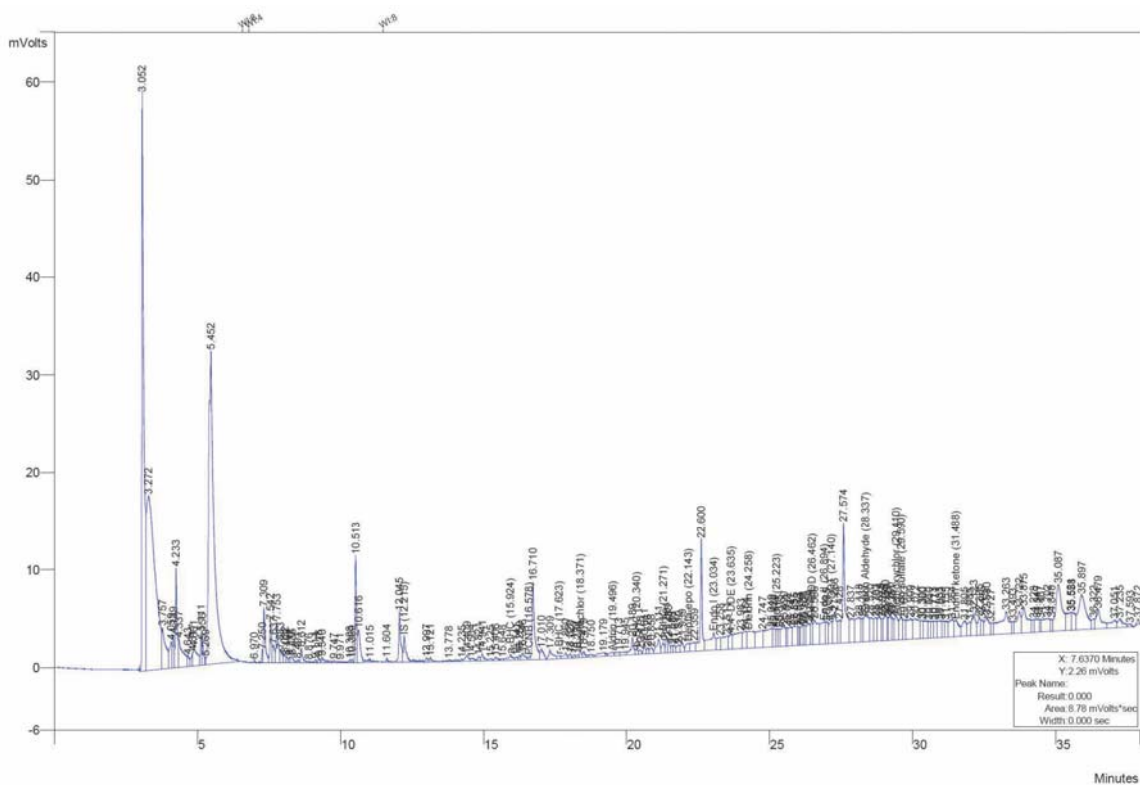


圖12 番瀉葉氣相層析圖譜 II

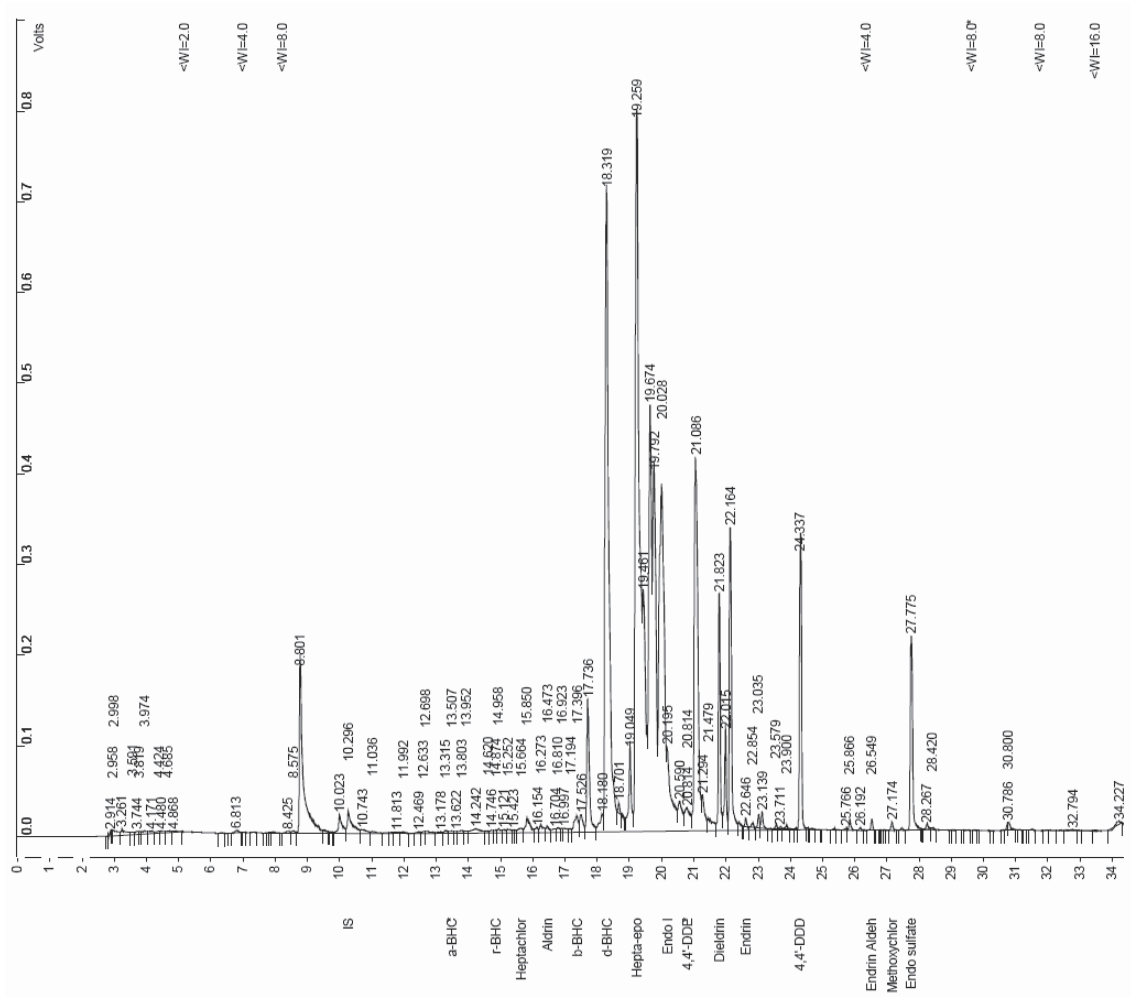


圖13 雷公根氣相層析圖譜



中國大陸人參栽培基地



灑上PCNB之土壤



農民在灑有PCNB之土壤上種植人參



將兩年生人參移植到土壤中



移植好人參復土



移植好人參復土



五氯硝基苯外包裝



由山西省臨汾縣化工工廠生產

圖 14 中國大陸人參栽培基地使用PCNB實錄



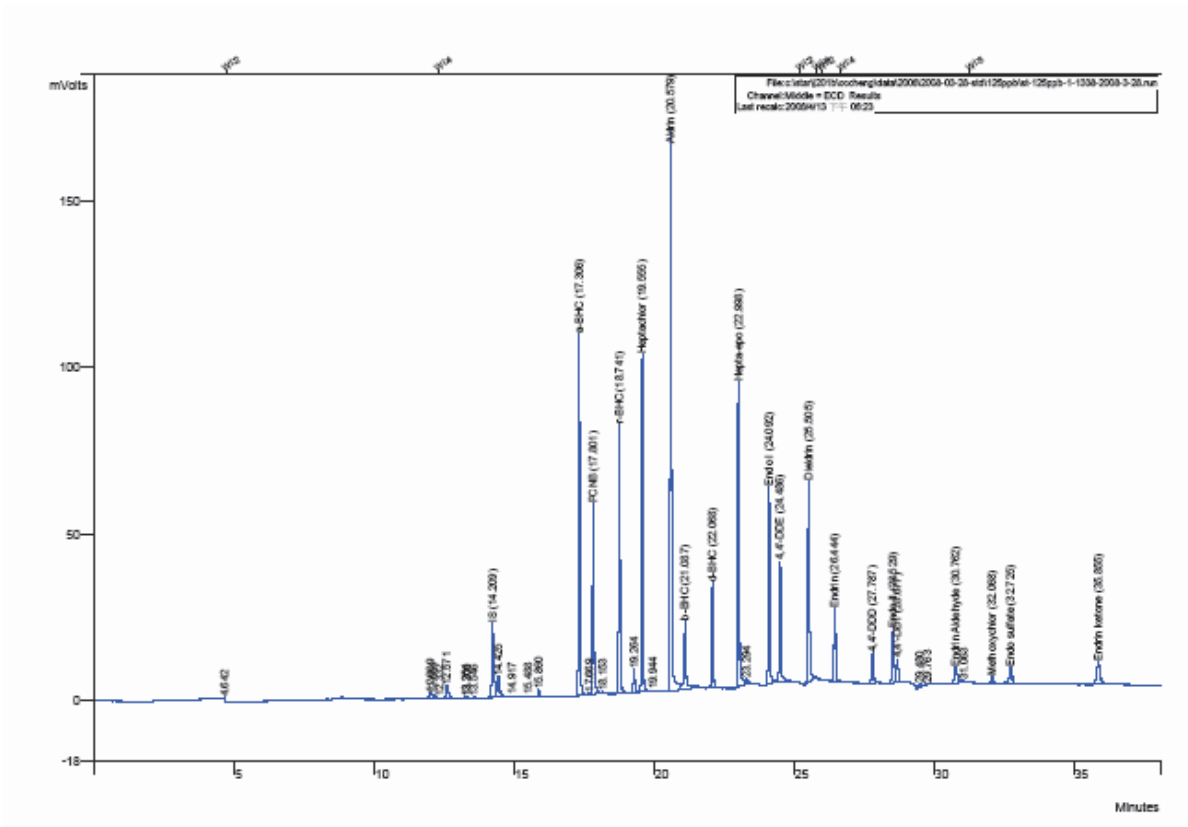


圖15 九十七年青草藥實驗農藥標準品圖譜(125 ppb)

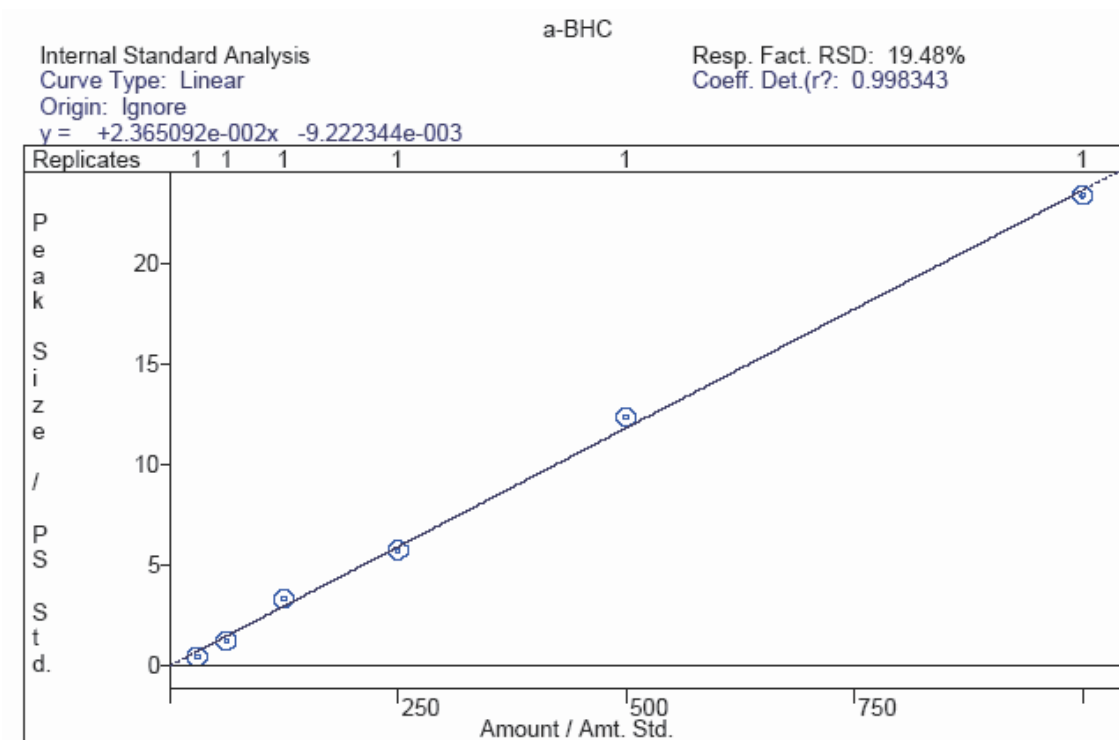


圖16-1 九十七年青草藥實驗  $\alpha$ -BHC 標準檢量線

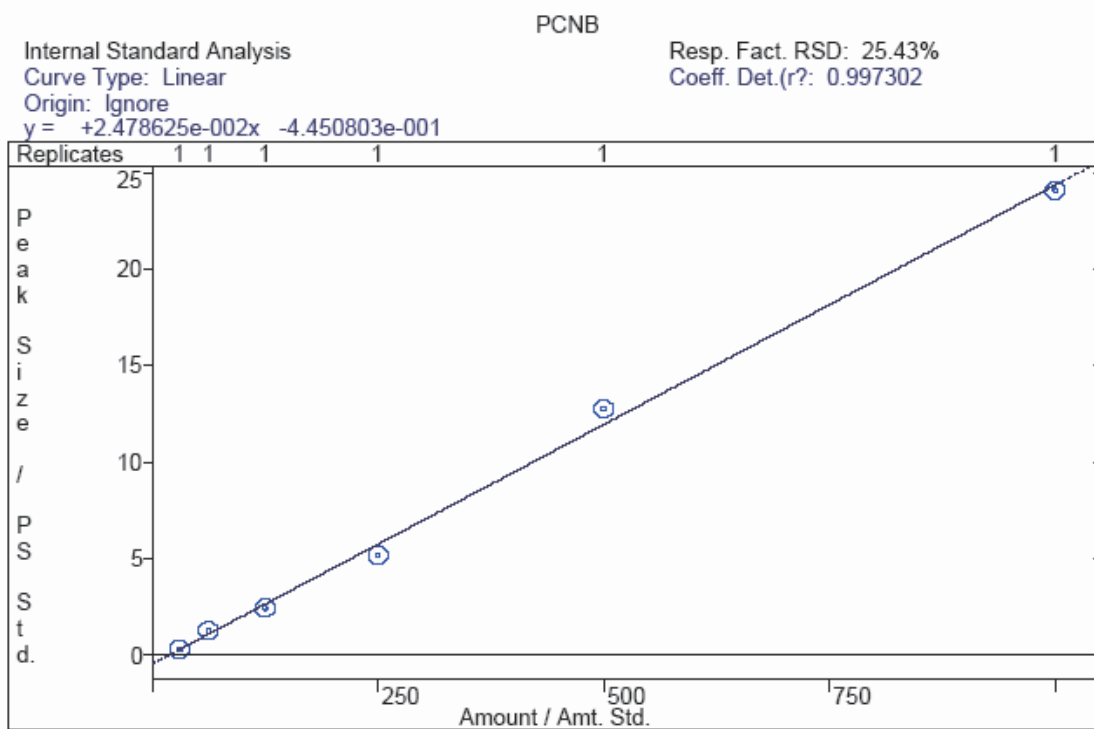


圖16-2 九十七年青草藥實驗PCNB標準檢量線

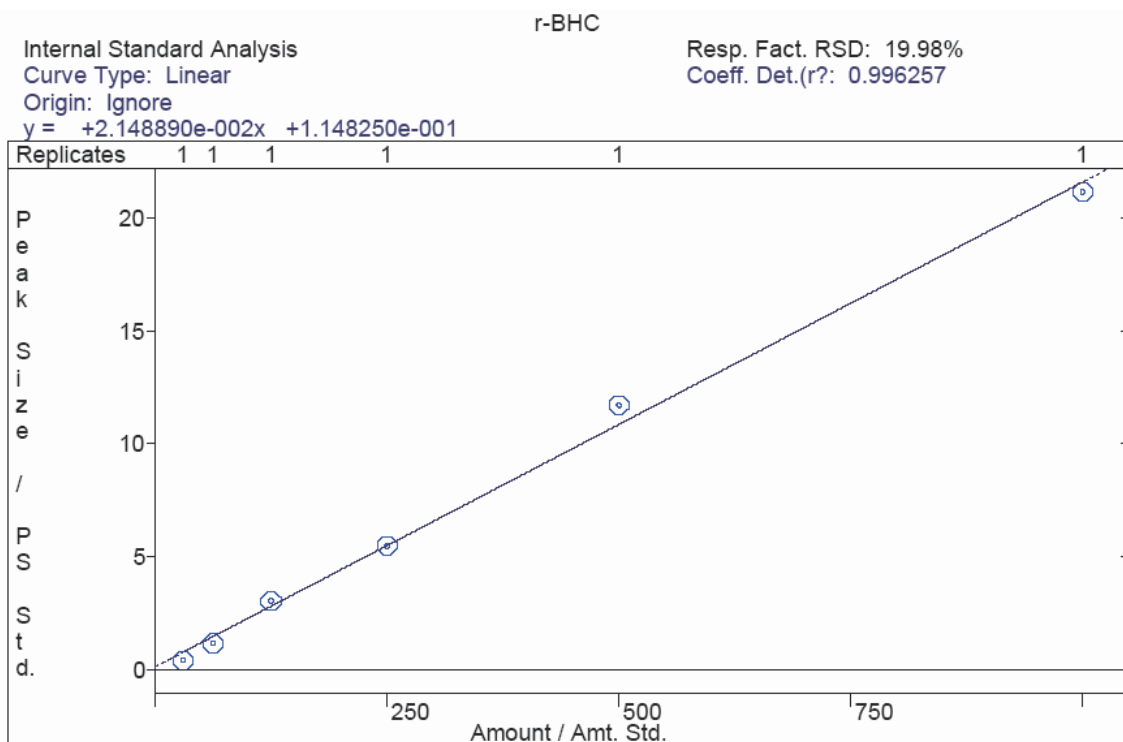


圖16-3 九十七年青草藥實驗 $\gamma$ -BHC標準檢量線

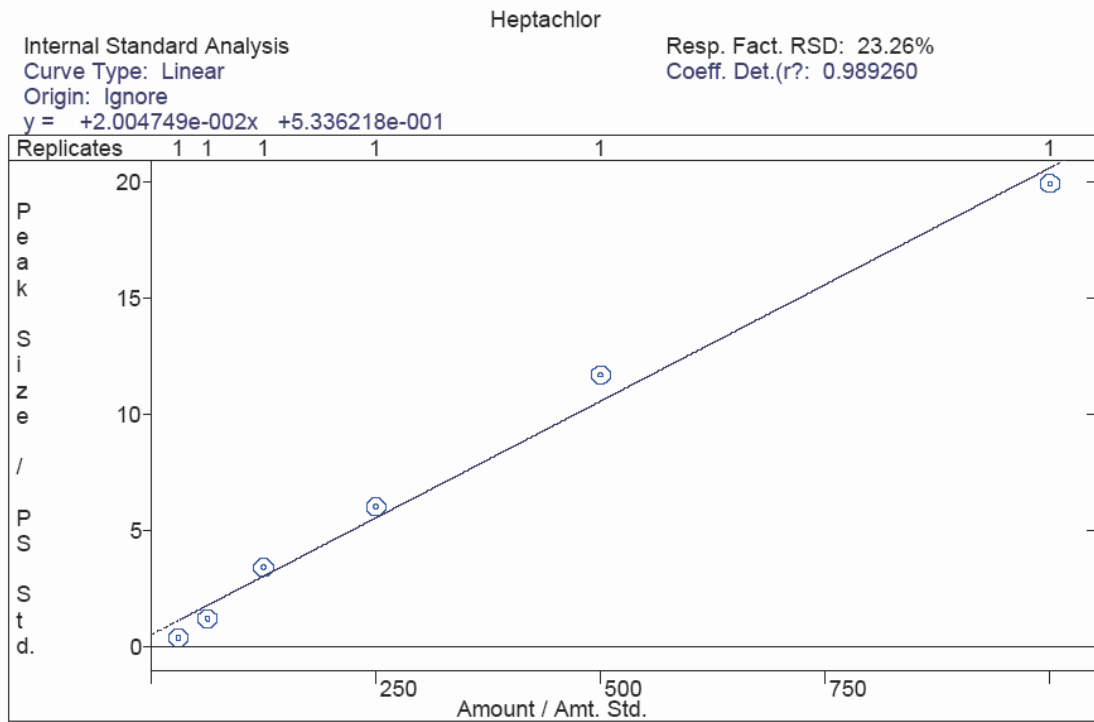


圖16-4 九十七年青草藥實驗Heptachloride標準檢量線

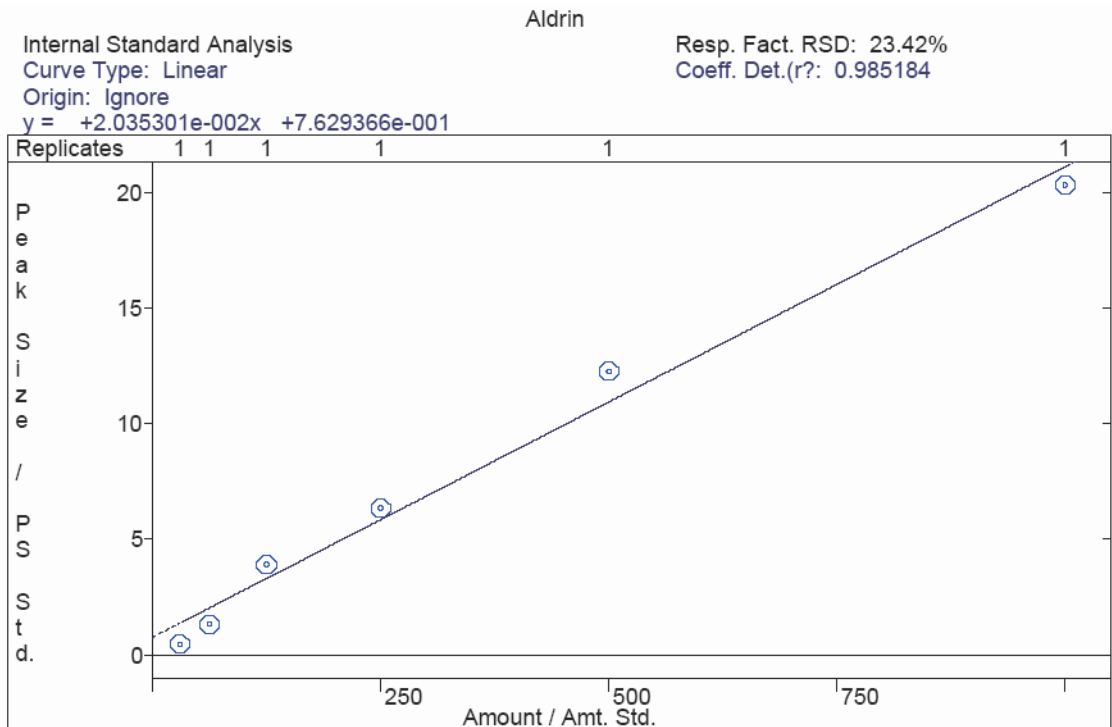


圖16-5 九十七年青草藥實驗Aldrin標準檢量線

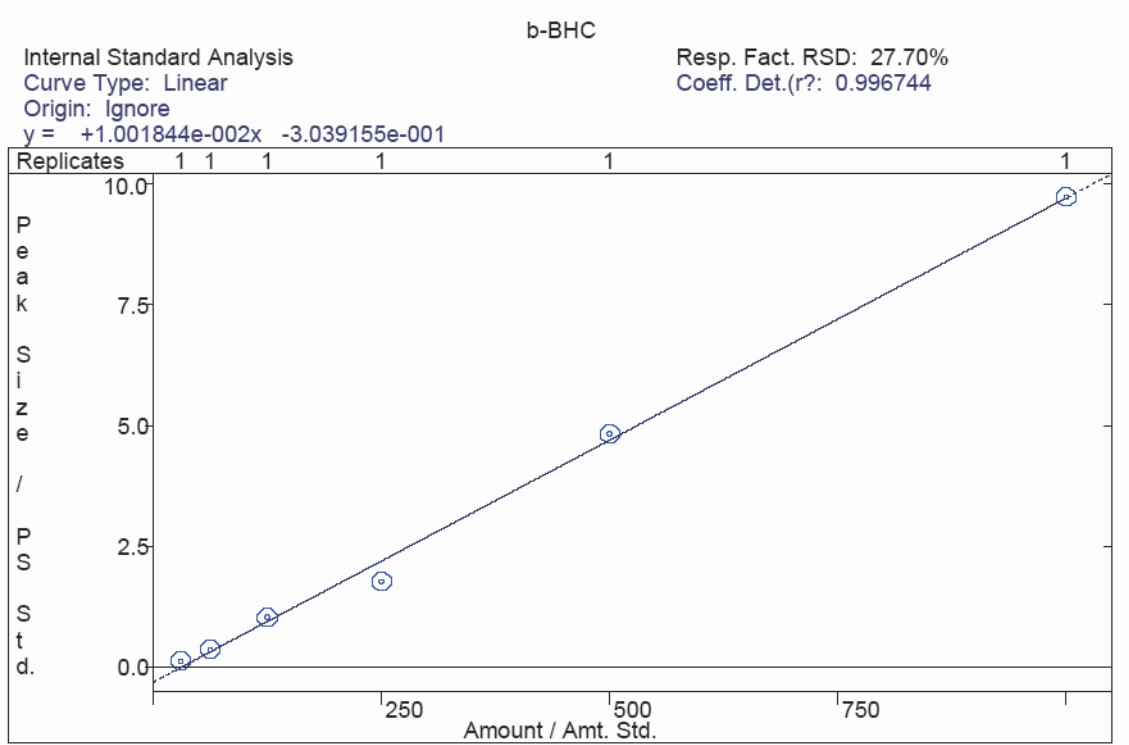


圖16-6 九十七年青草藥實驗 $\beta$ -BHC標準檢量線

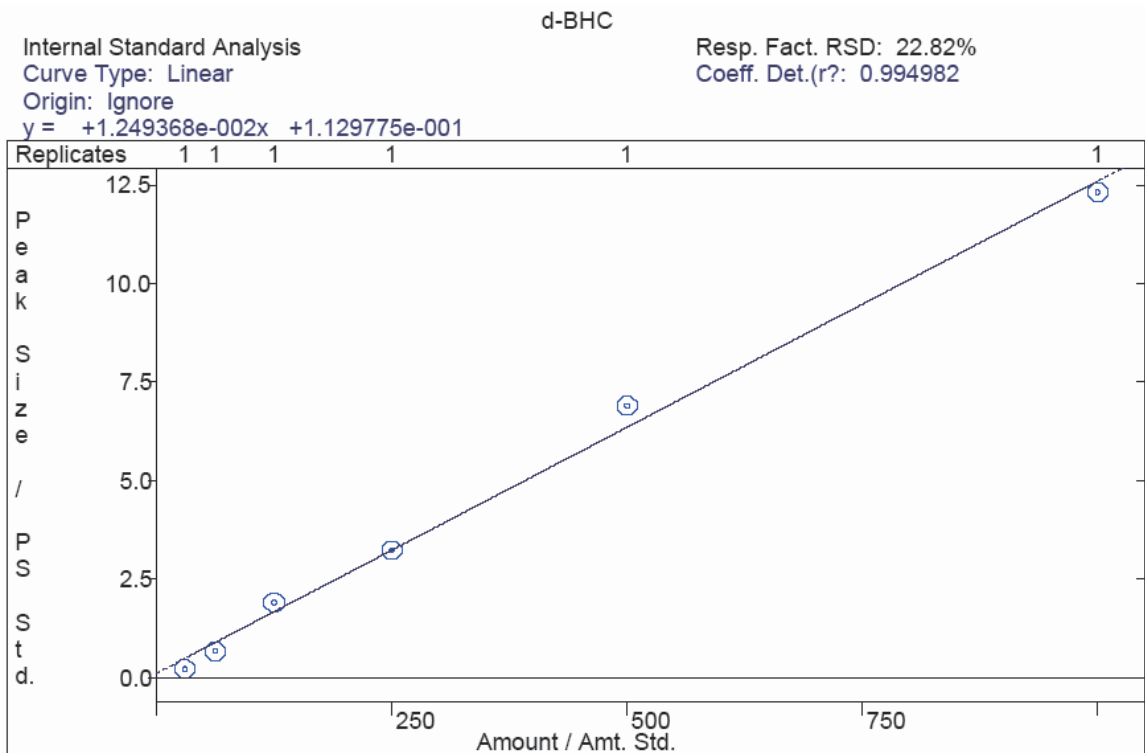


圖16-7 九十七年青草藥實驗 $\delta$ -BHC標準檢量線

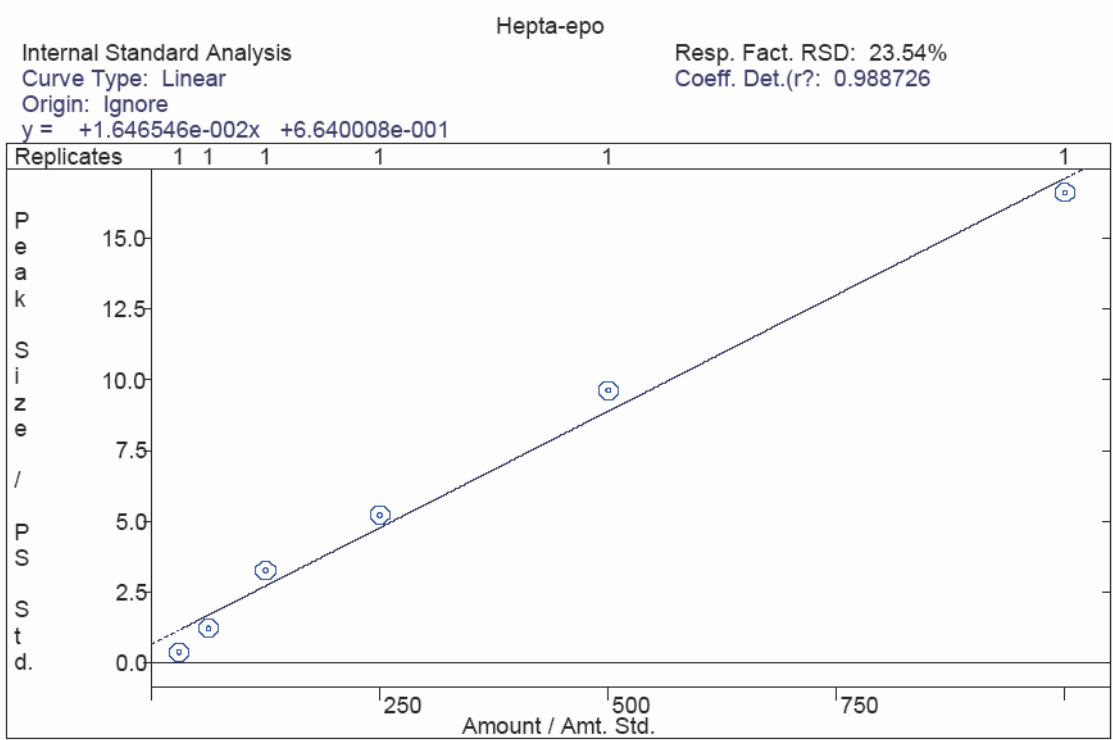


圖16-8 九十七年青草藥實驗Heptachlor epoxide標準檢量線

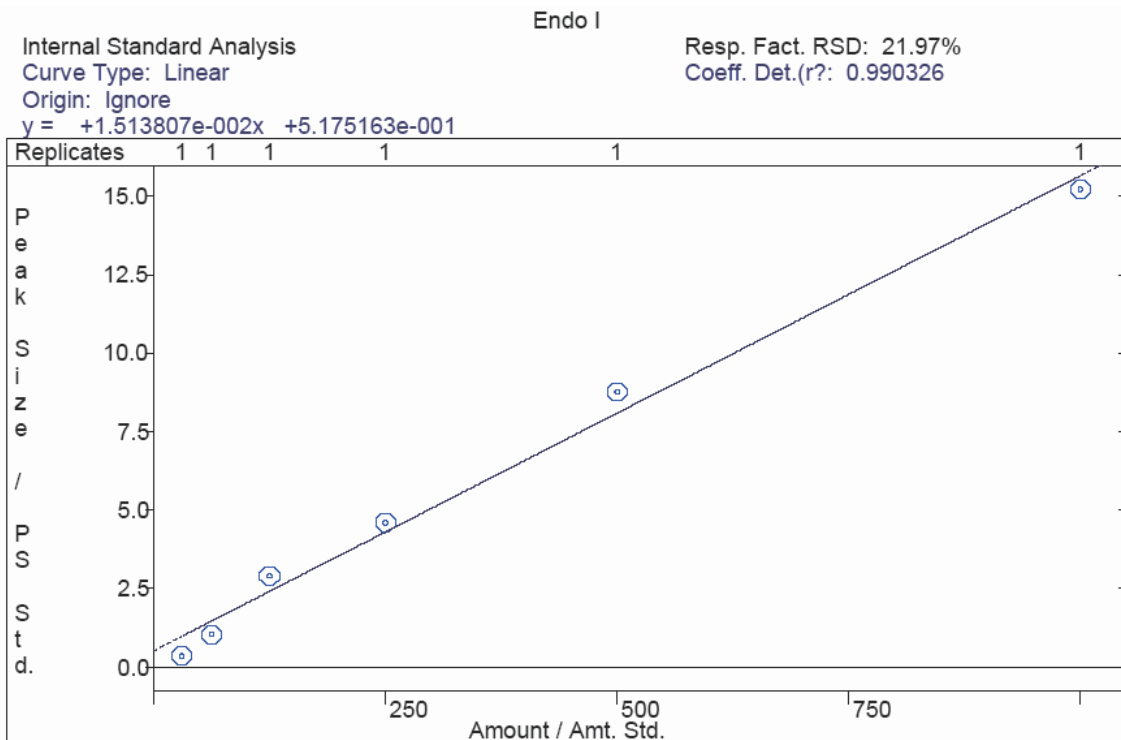


圖16-9 九十七年青草藥實驗Endosulfan I標準檢量線

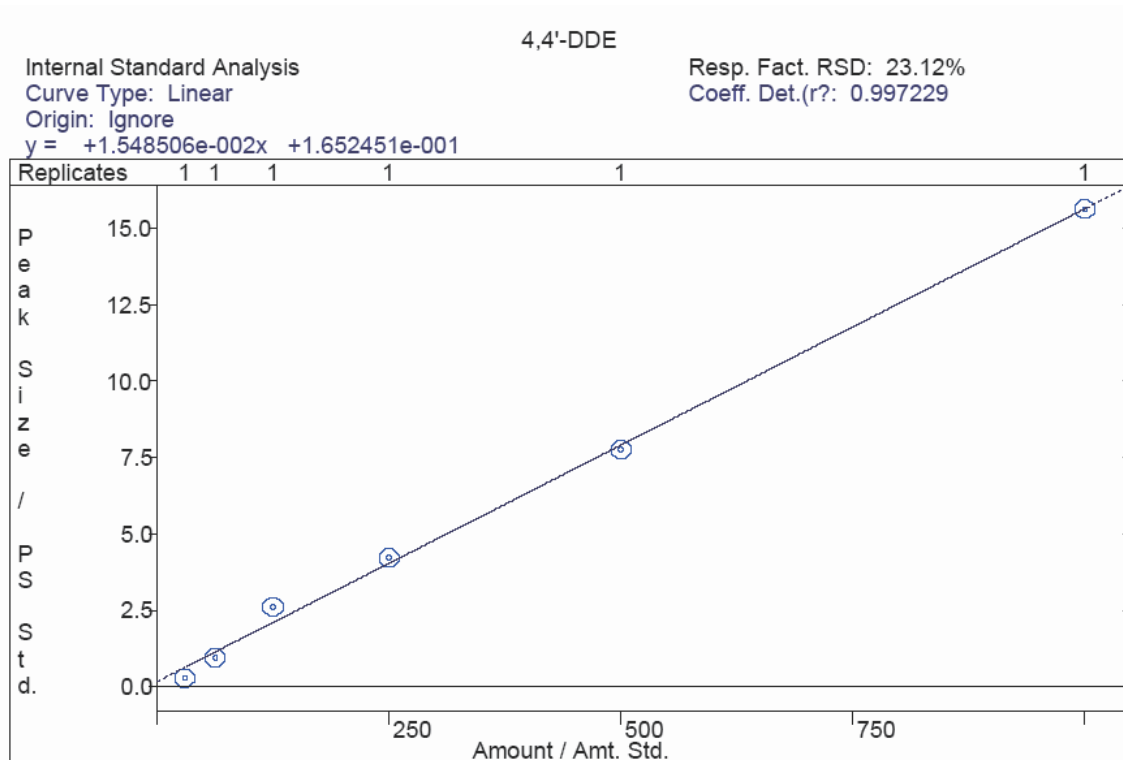


圖16-10 九十七年青草藥實驗4,4'-DDE標準檢量線

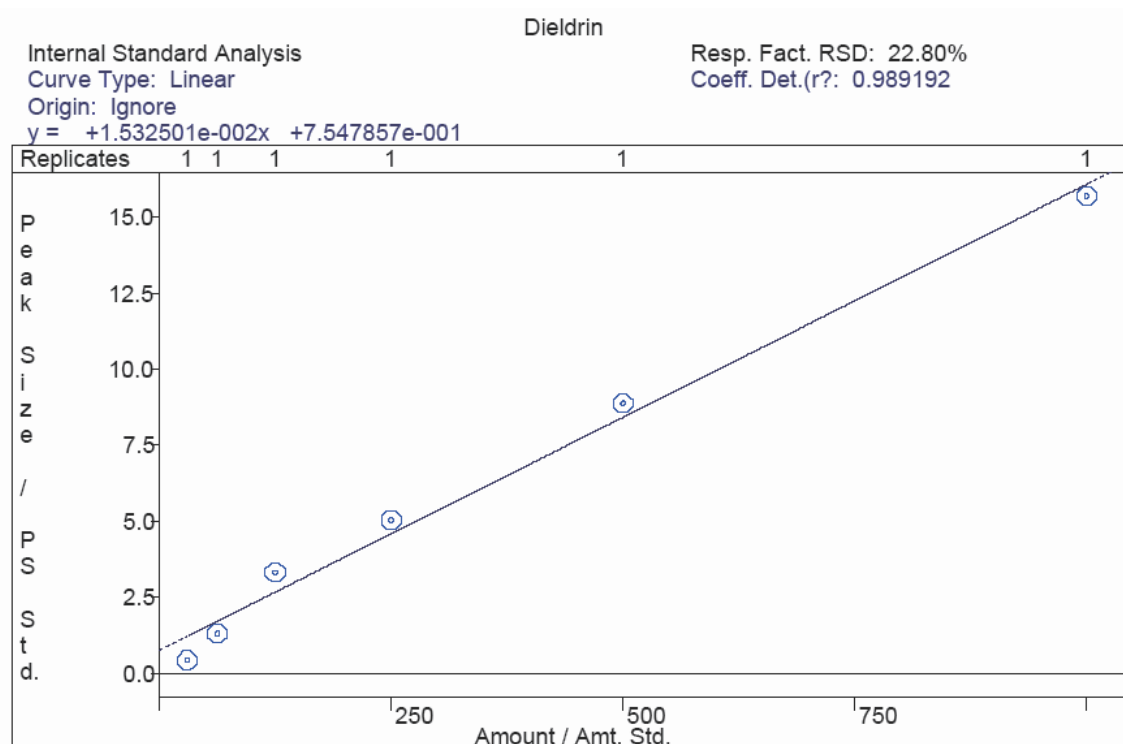


圖16-11 九十七年青草藥實驗Dieldrin標準檢量線

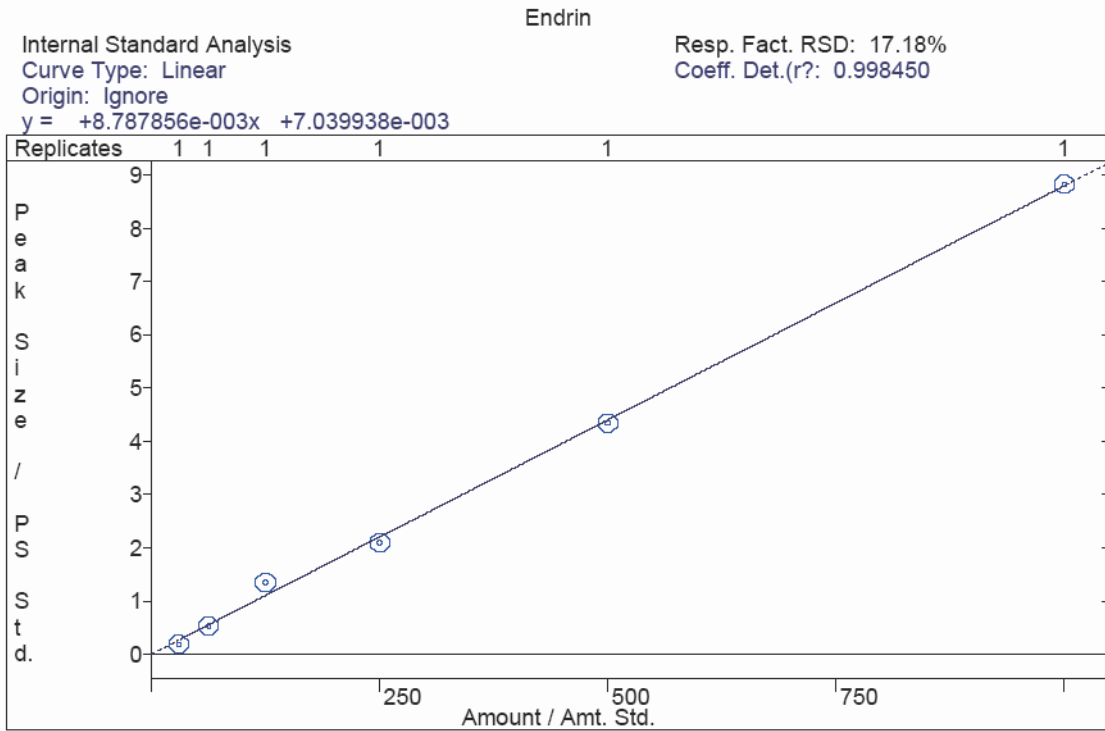


圖16-12 九十七年青草藥實驗Endrin標準檢量線

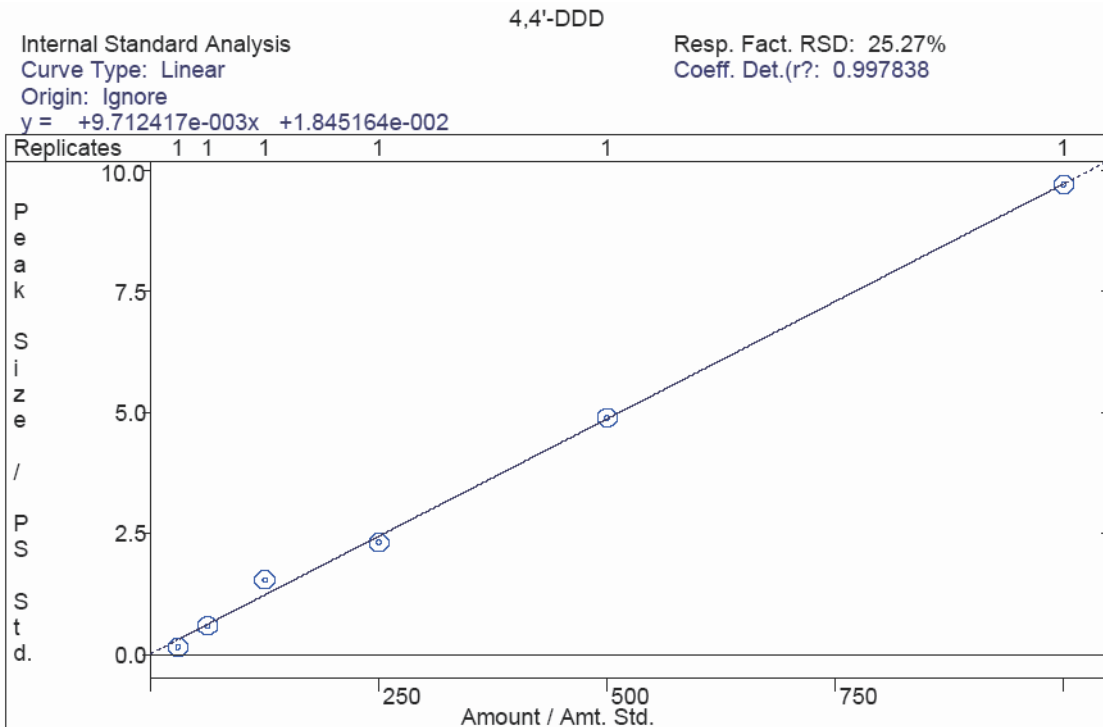


圖16-13 九十七年青草藥實驗4,4'-DDD標準檢量線

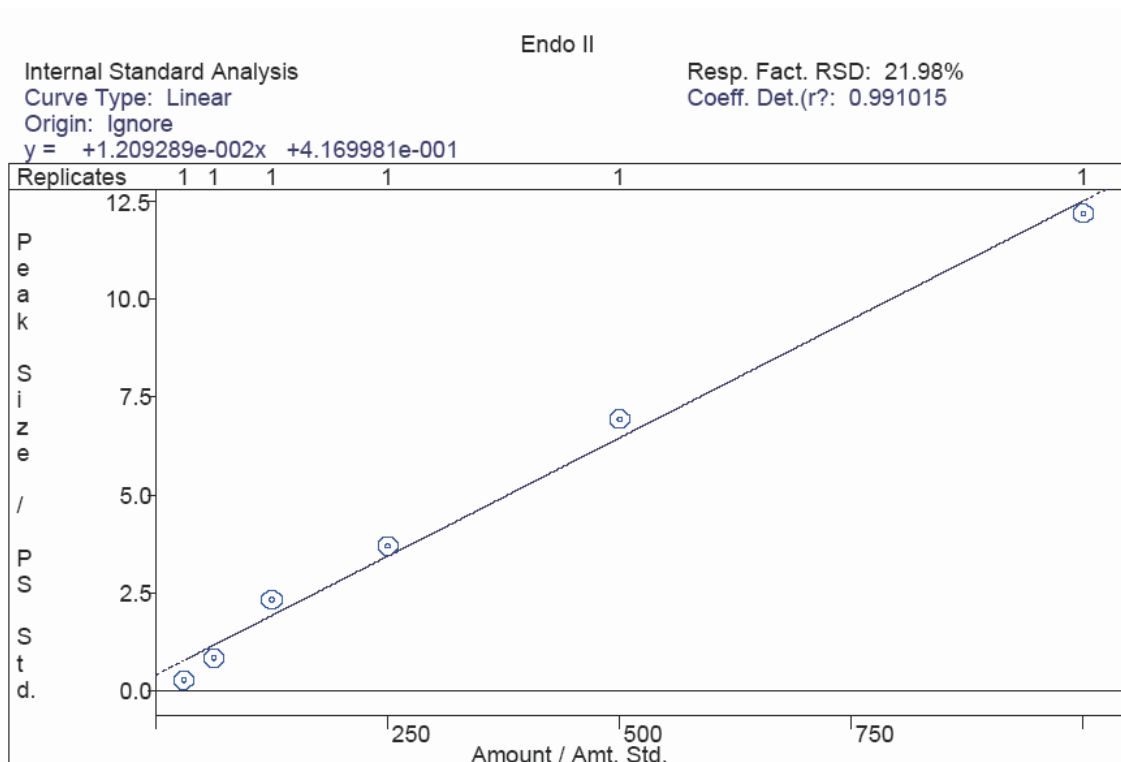


圖16-14 九十七年青草藥實驗Endosulfan II標準檢量線

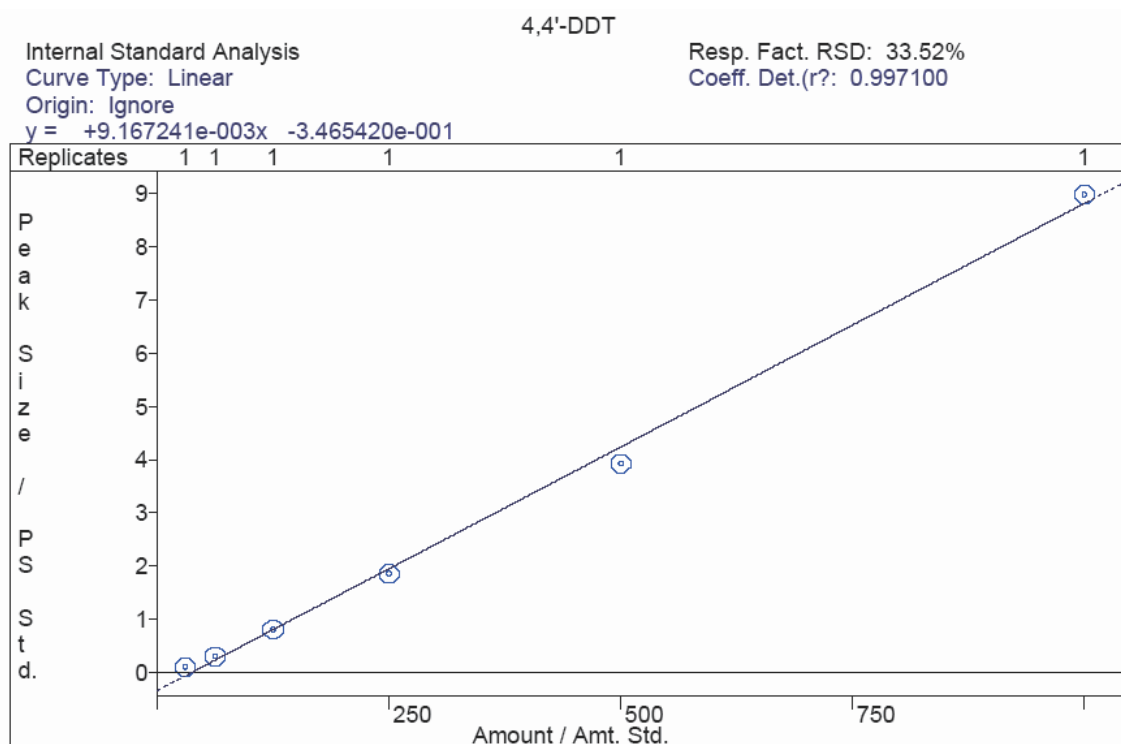


圖16-15 九十七年青草藥實驗4,4'-DDT標準檢量線



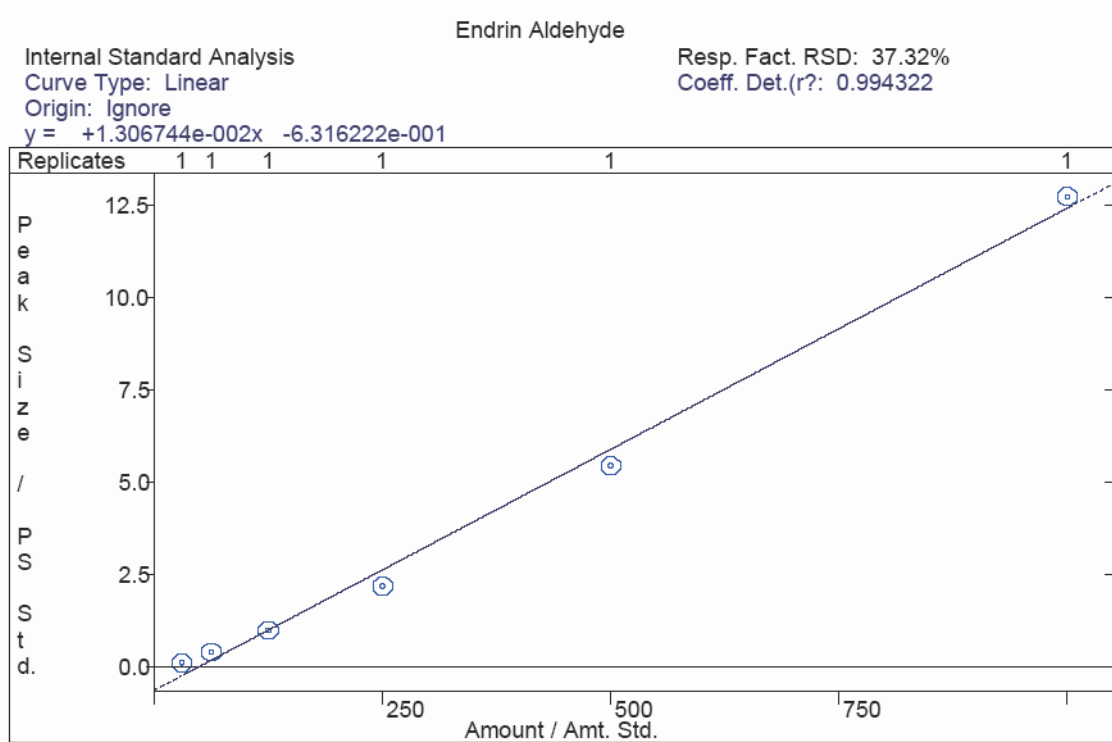


圖16-16 九十七年青草藥實驗Endrin aldehyde標準檢量線

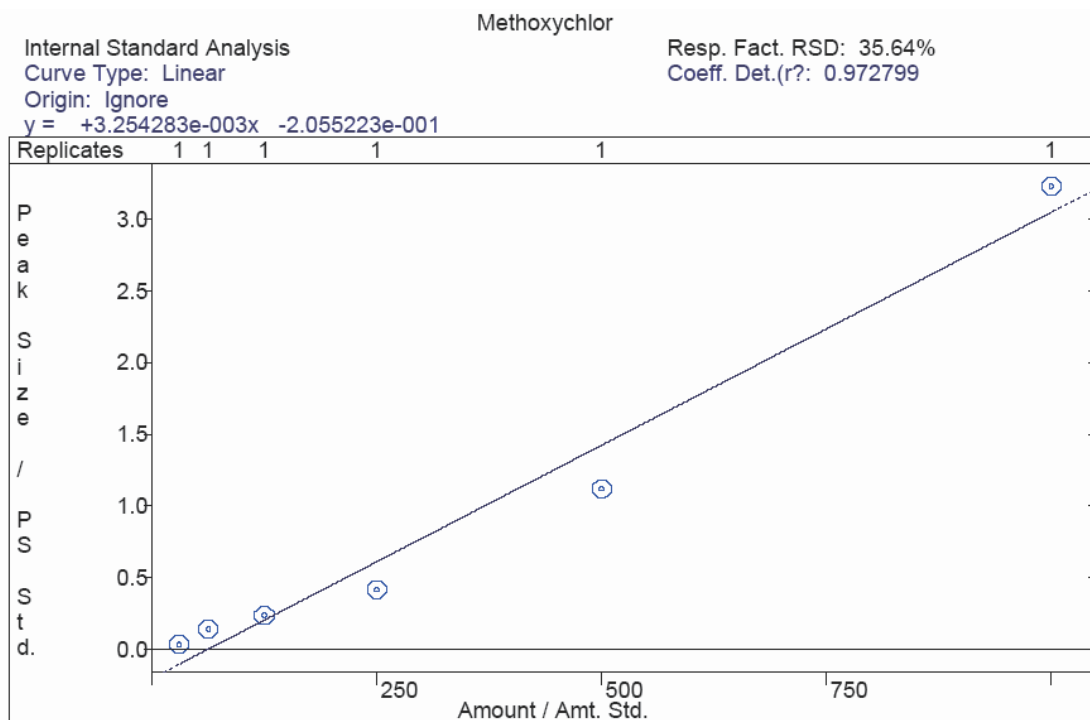


圖16-17 九十七年青草藥實驗Methoxychloride標準檢量線

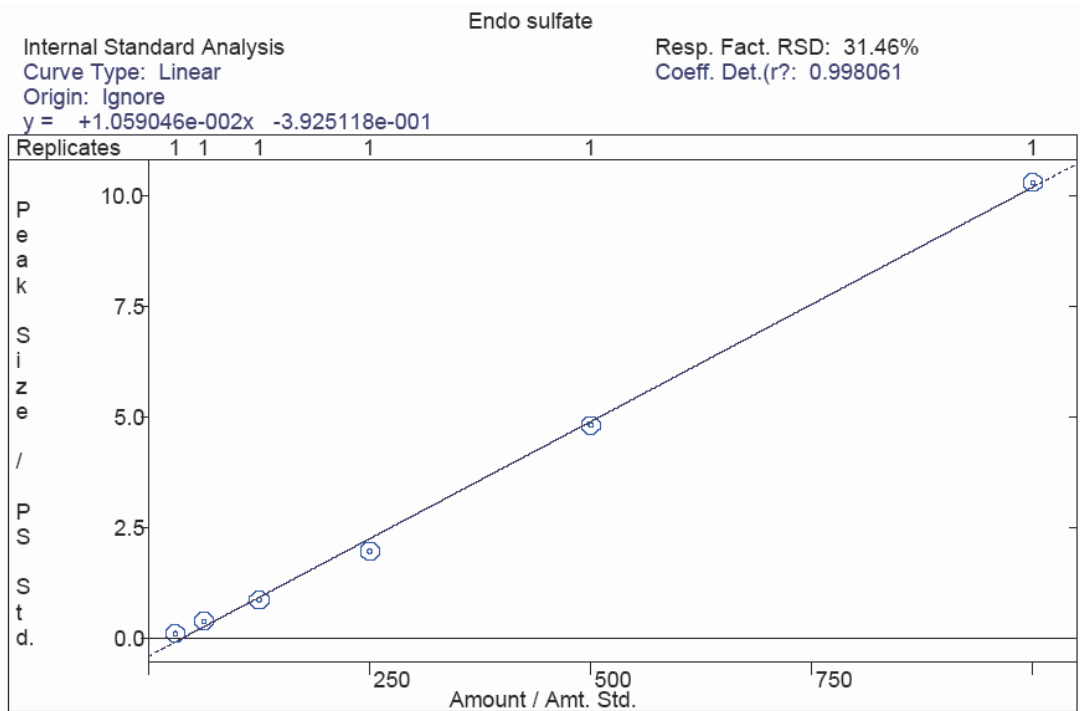


圖16-18 九十七年青草藥實驗Endosulfan sulfate標準檢量線

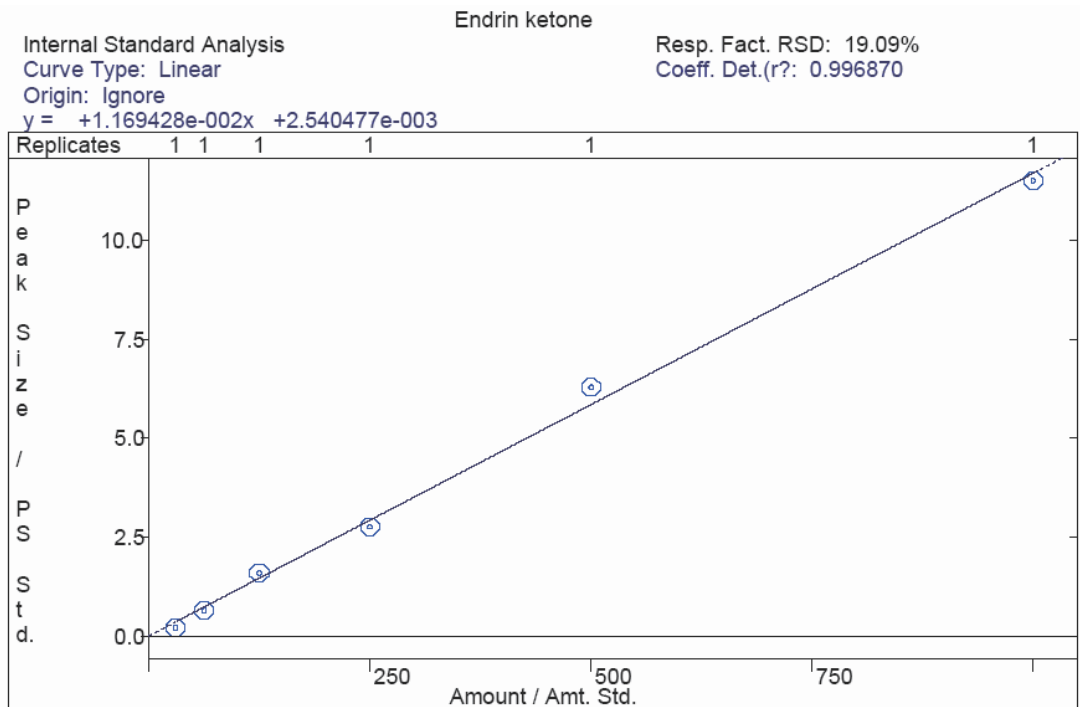


圖16-19 九十七年青草藥實驗Endrin ketone標準檢量線

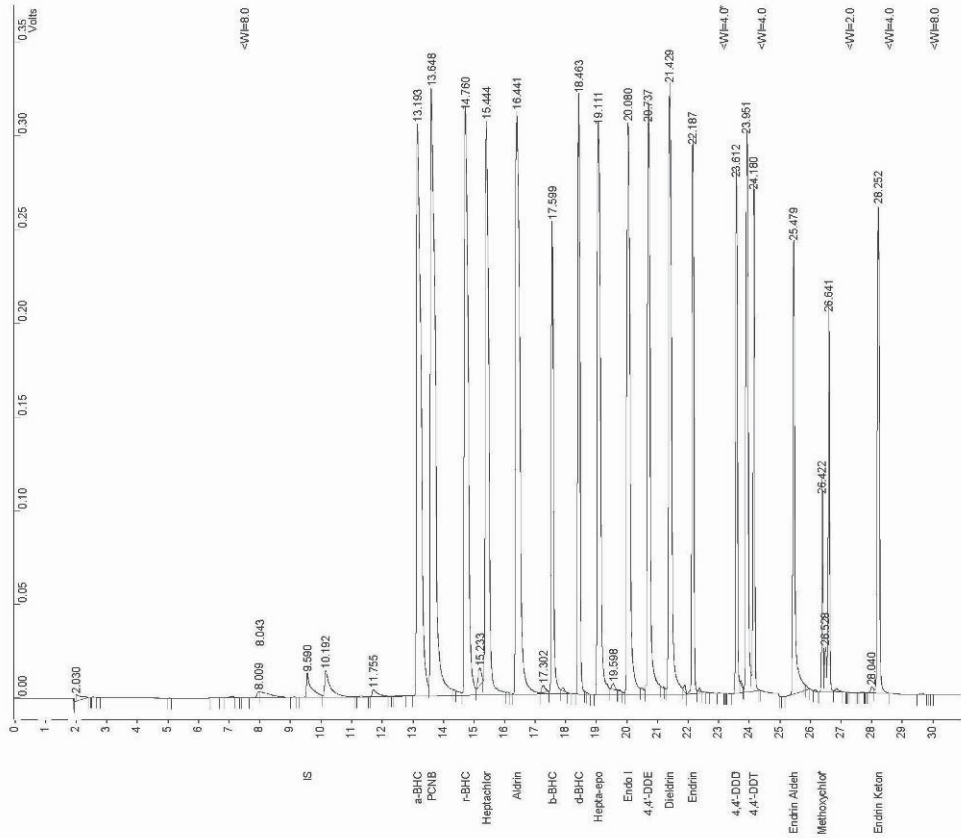


圖17 九十七年中藥實驗農藥標準品圖譜(1 ppm)

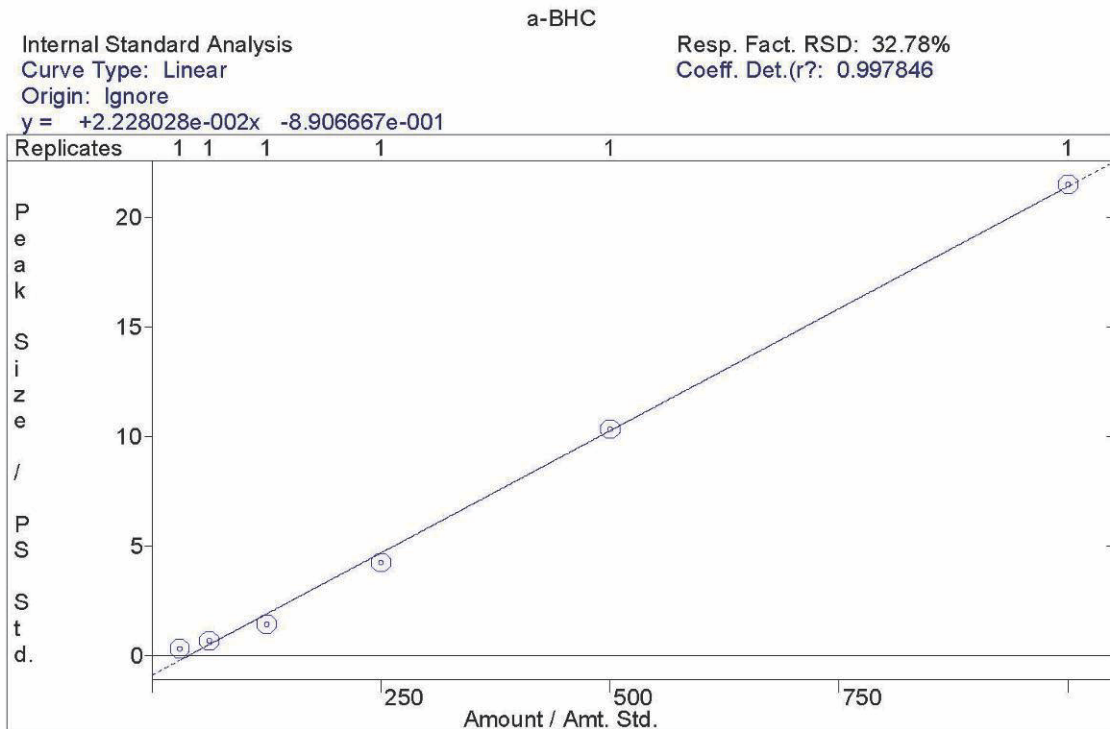


圖18-1 九十七年中藥實驗  $\alpha$ -BHC 標準檢量線

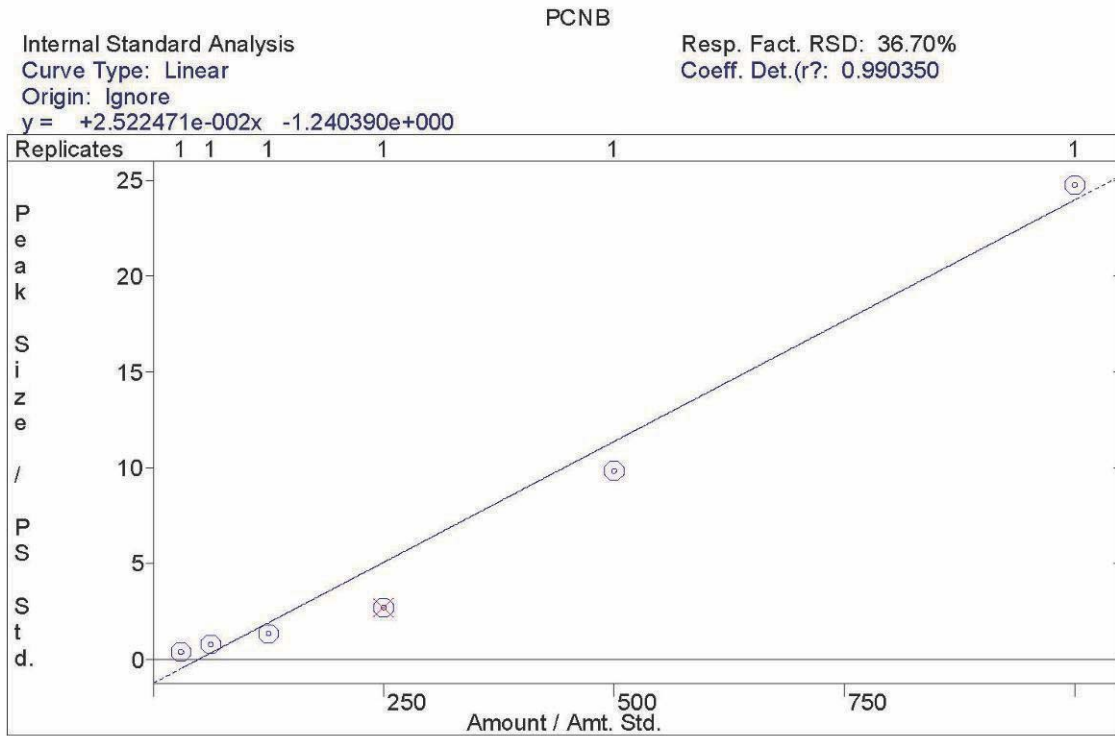


圖18-2 九十七年中藥實驗PCNB標準檢量線

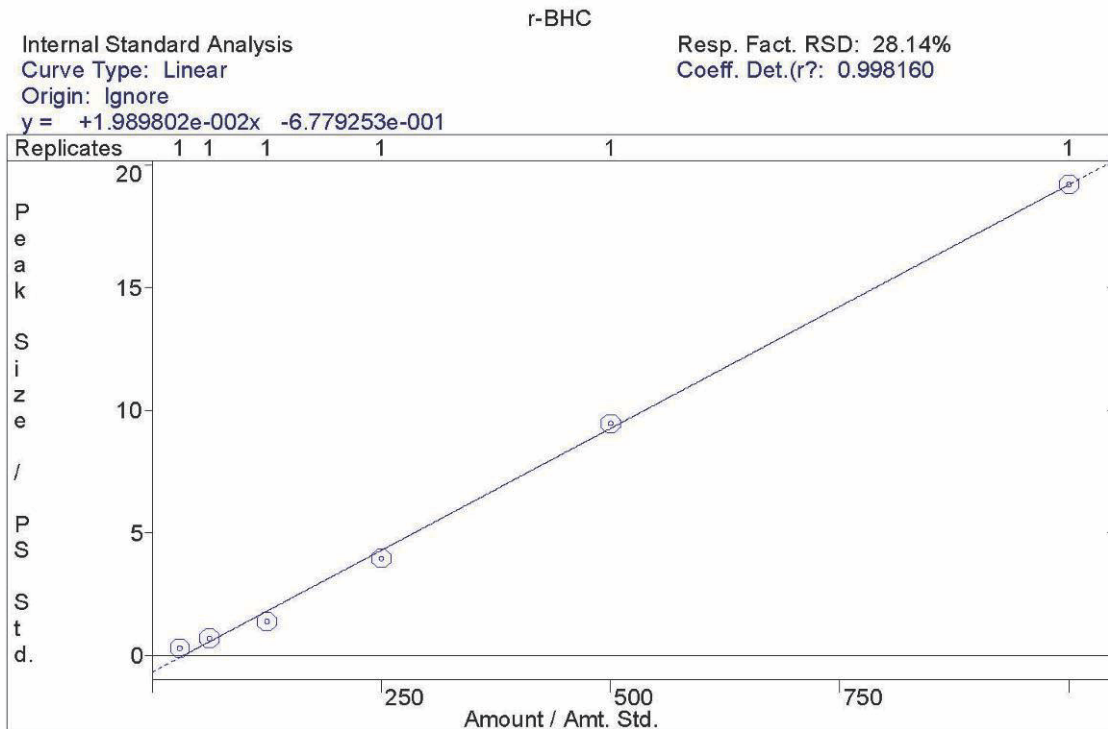


圖18-3 九十七年中藥實驗γ-BHC標準檢量線

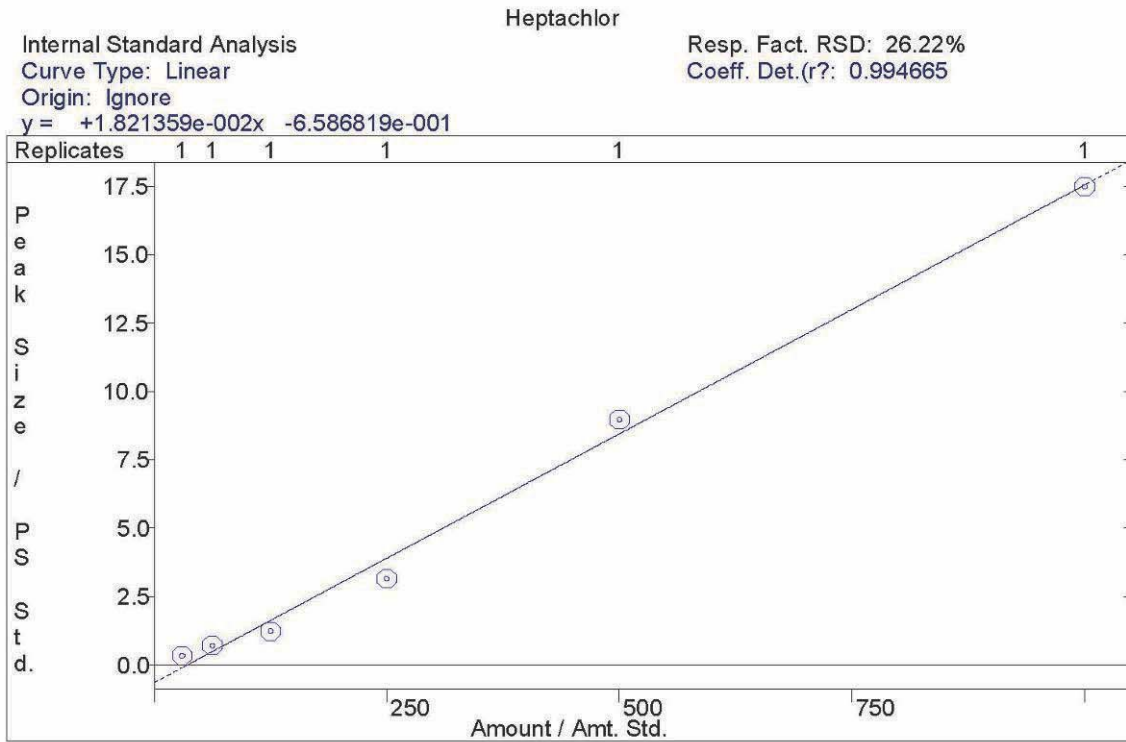


圖18-4 九十七年中藥實驗Heptachloride標準檢量線

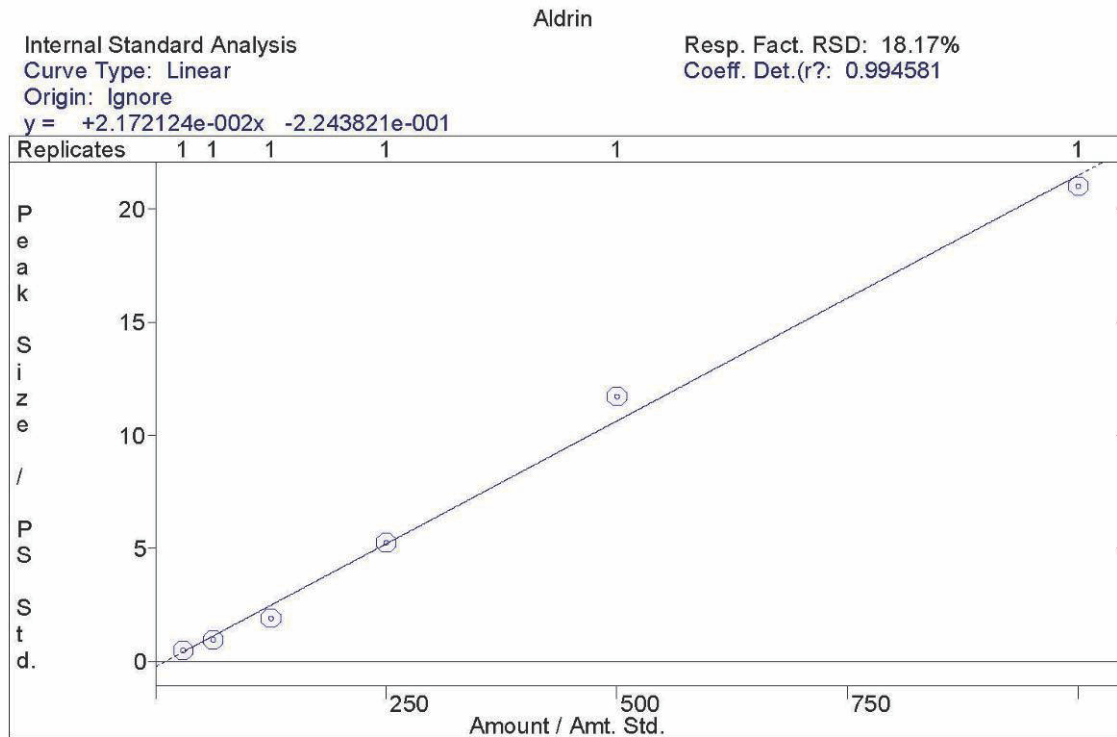


圖18-5 九十七年中藥實驗Aldrin標準檢量線

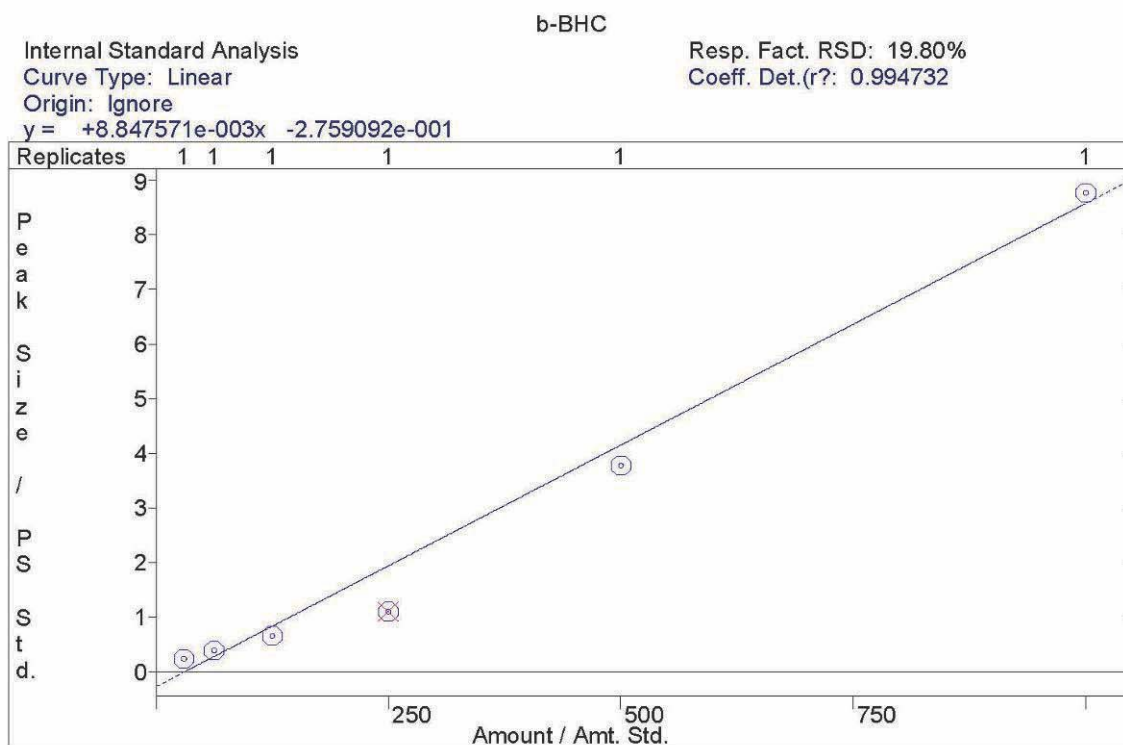


圖18-6 九十七年中藥實驗  $\beta$ -BHC標準檢量線

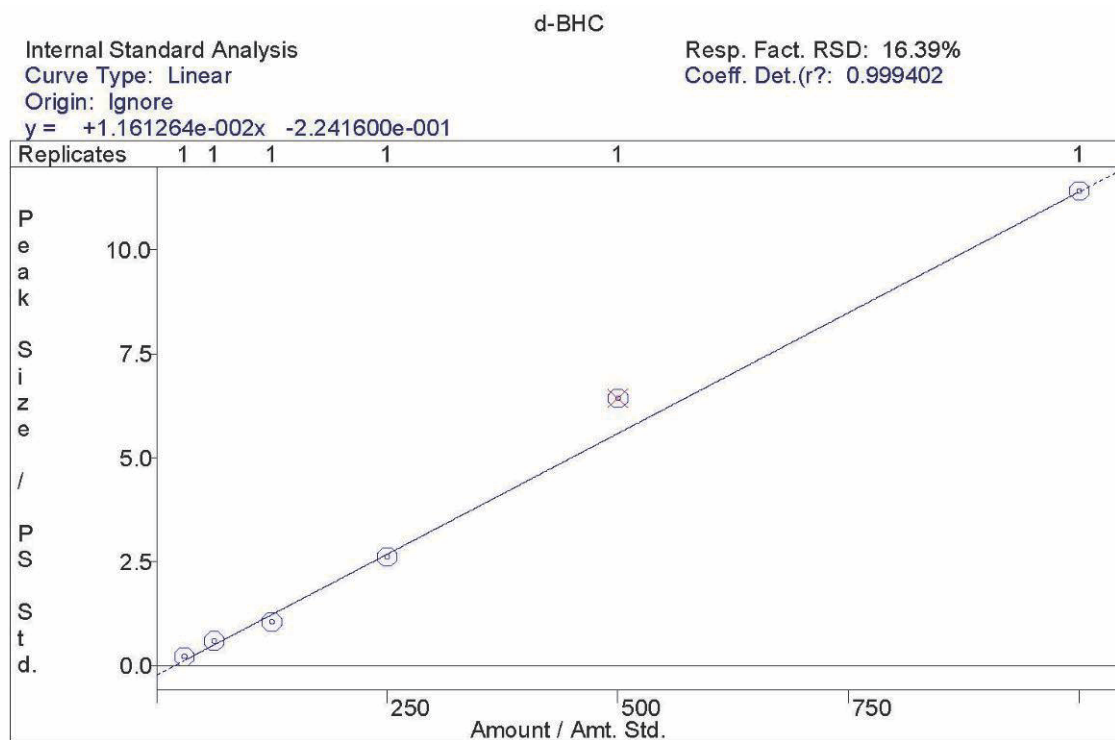


圖18-7 九十七年中藥實驗  $\delta$ -BHC標準檢量線

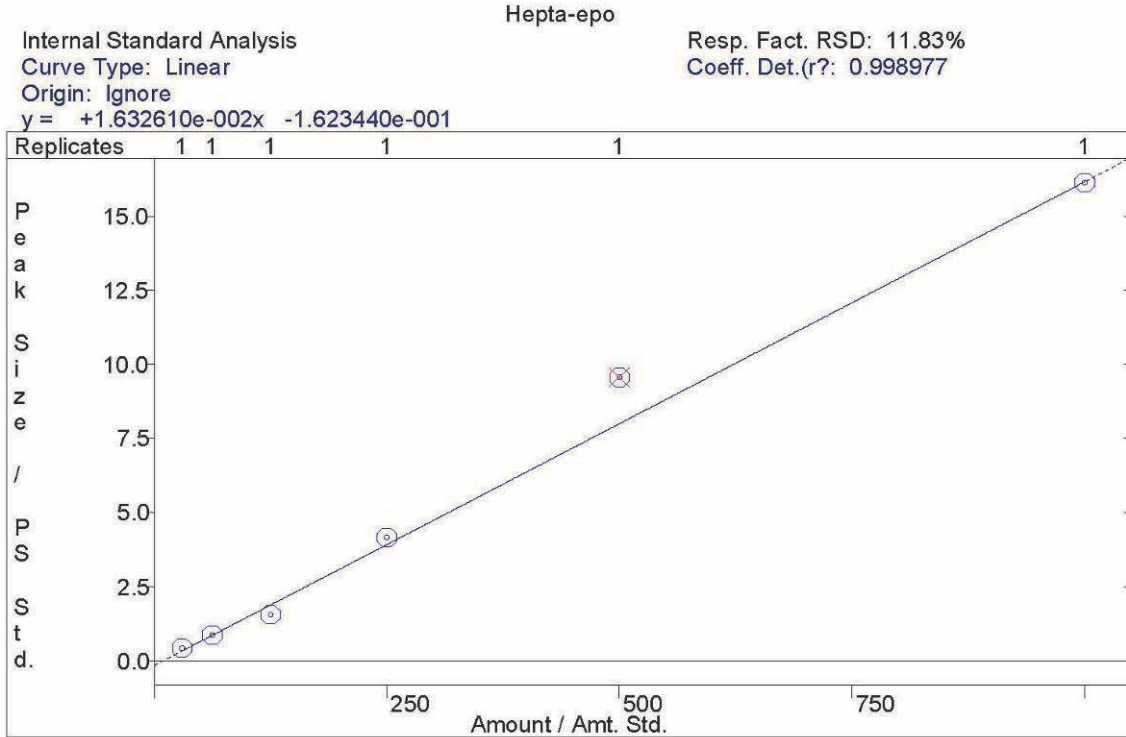


圖18-8 九十七年中藥實驗Heptachlor epoxide標準檢量線

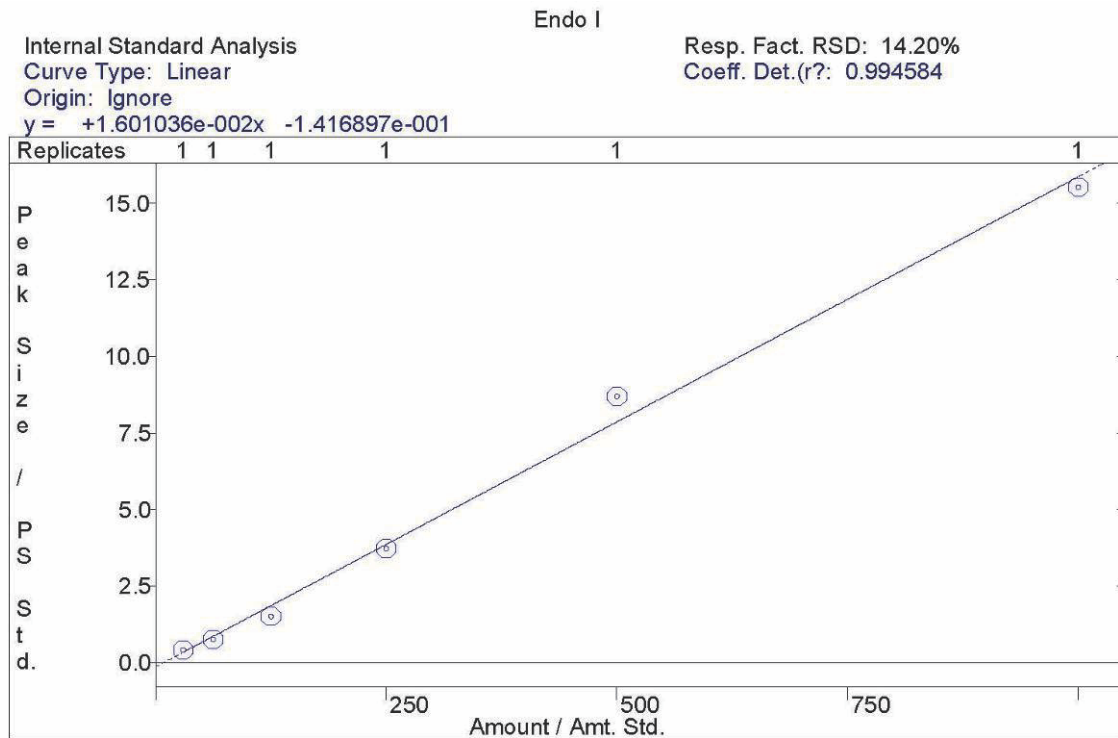


圖18-9 九十七年中藥實驗Endosulfan I標準檢量線

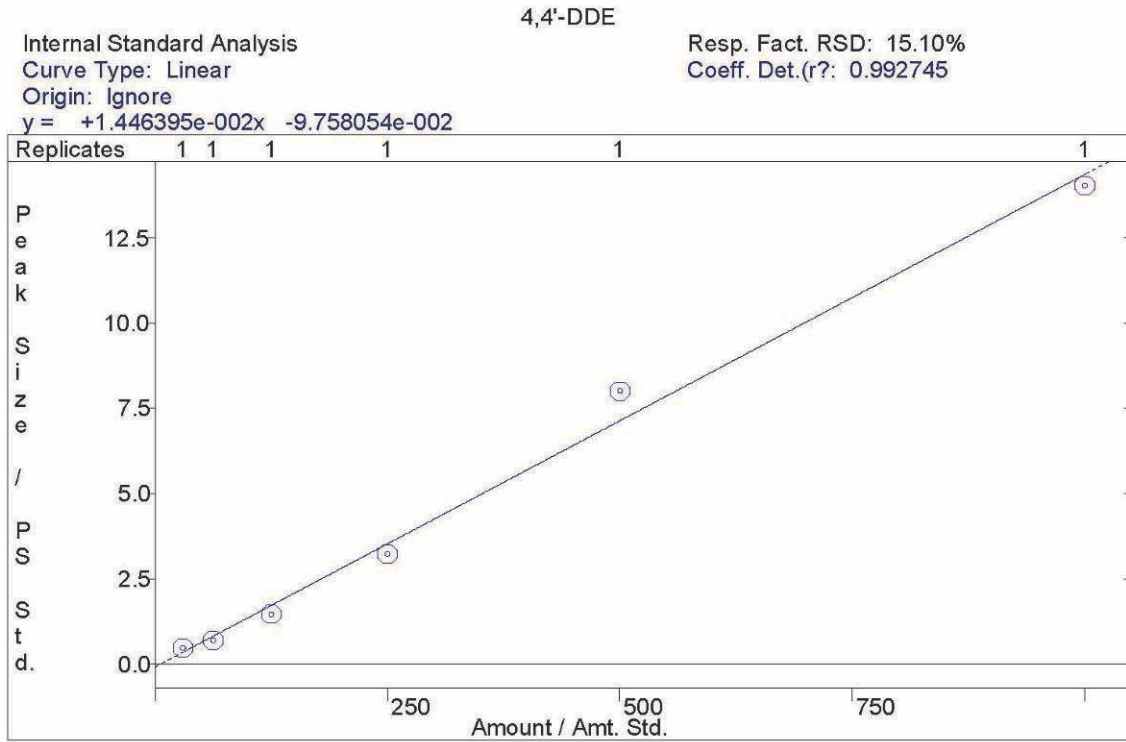


圖18-10 九十七年中藥實驗4,4'-DDE標準檢量線

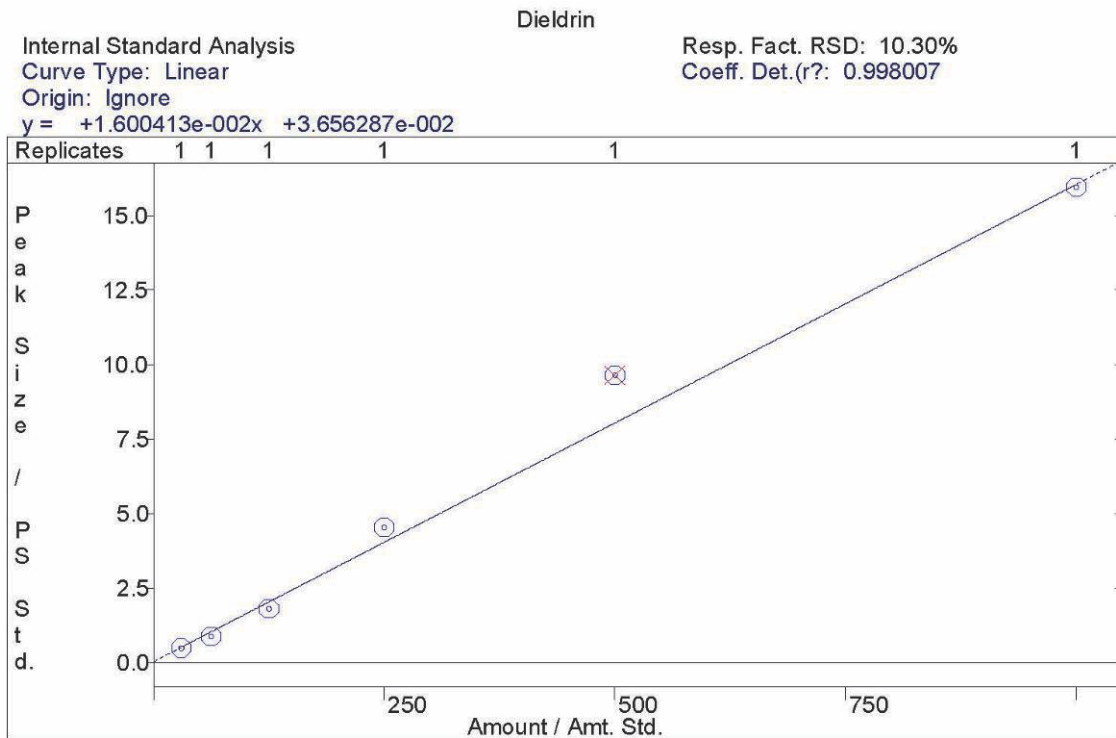


圖18-11 九十七年中藥實驗Dieldrin標準檢量線



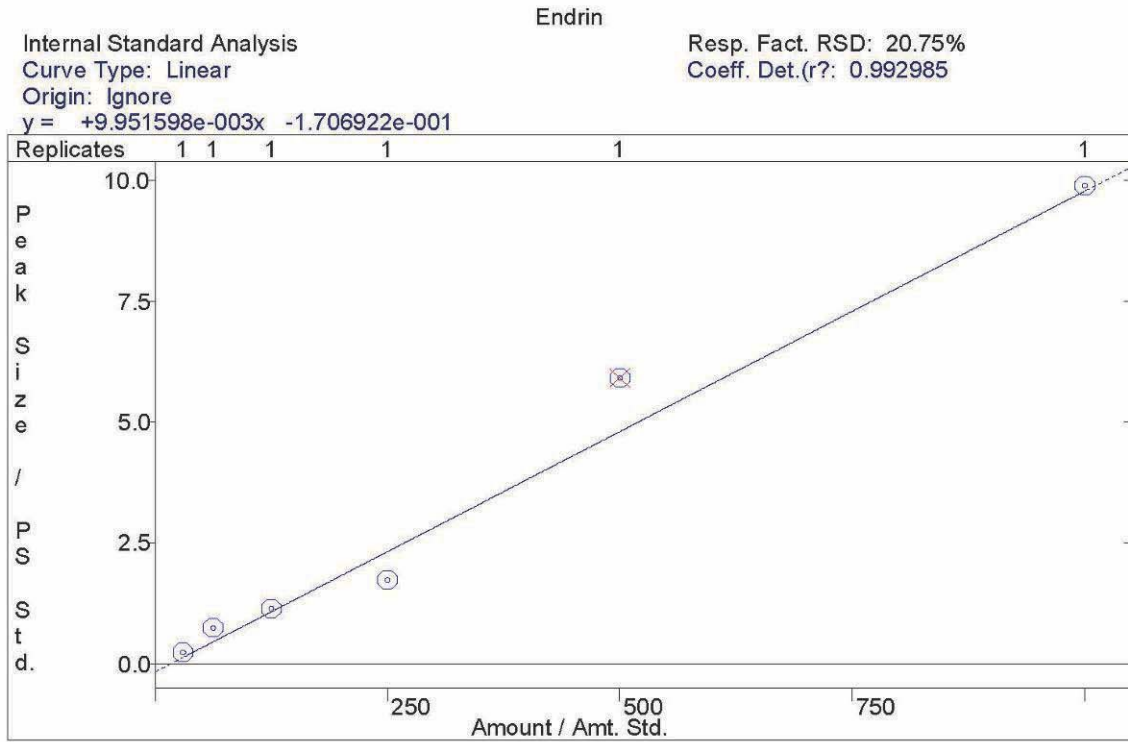


圖18-12 九十七年中藥實驗Endrin標準檢量線

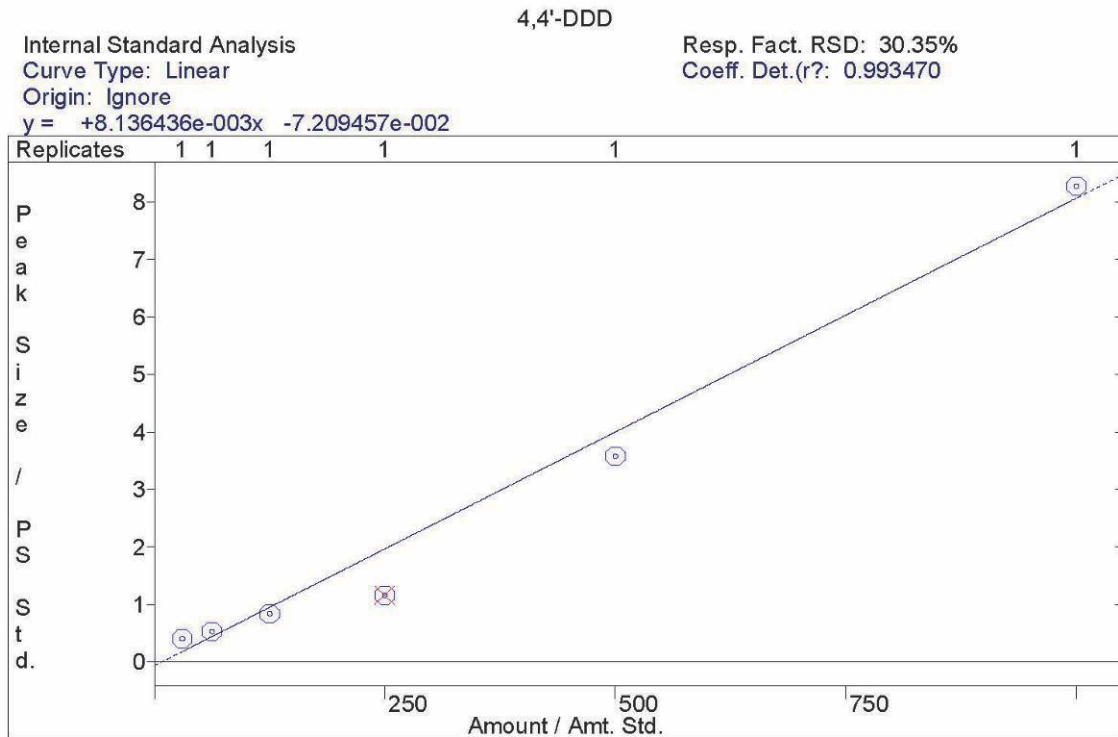


圖18-13 九十七年中藥實驗4,4'-DDD標準檢量線

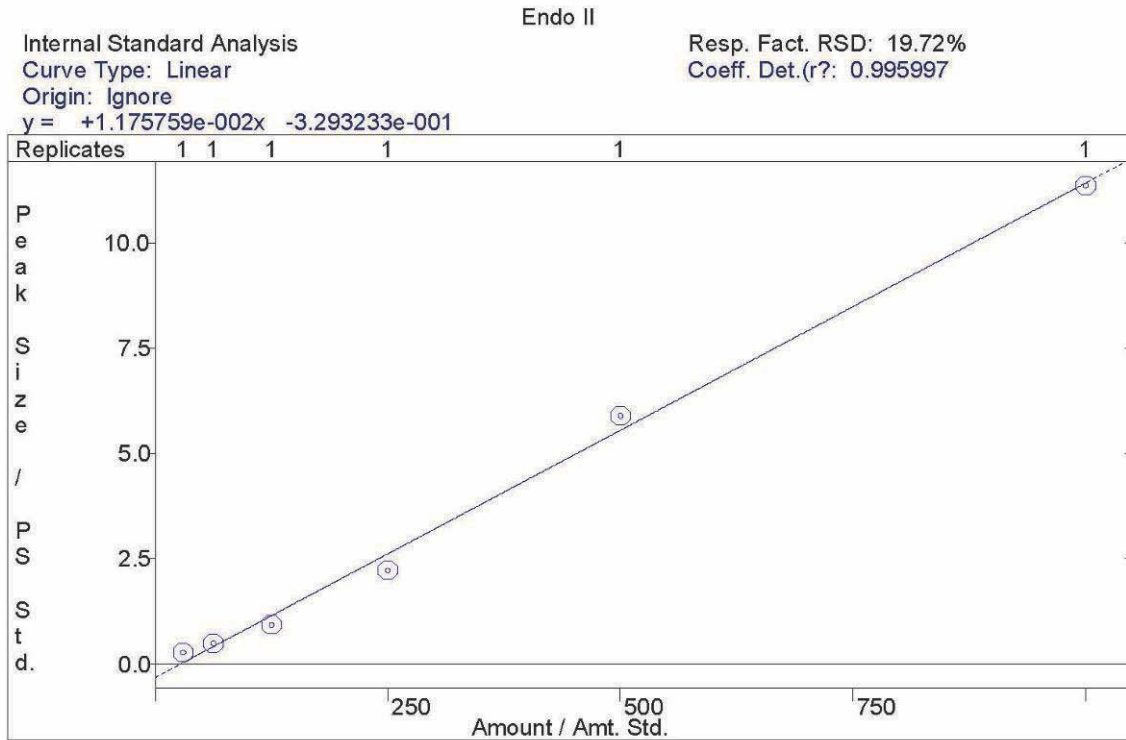


圖18-14 九十七年中藥實驗Endosulfan II標準檢量線

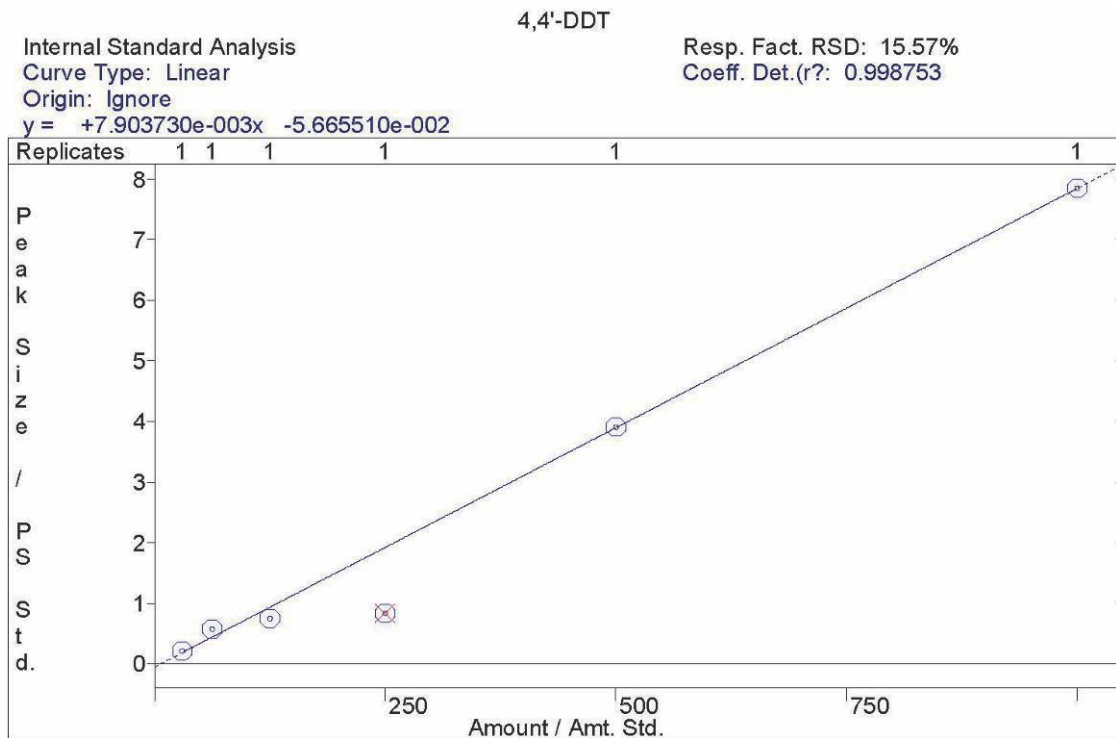


圖18-15 九十七年中藥實驗4,4'-DDT標準檢量線

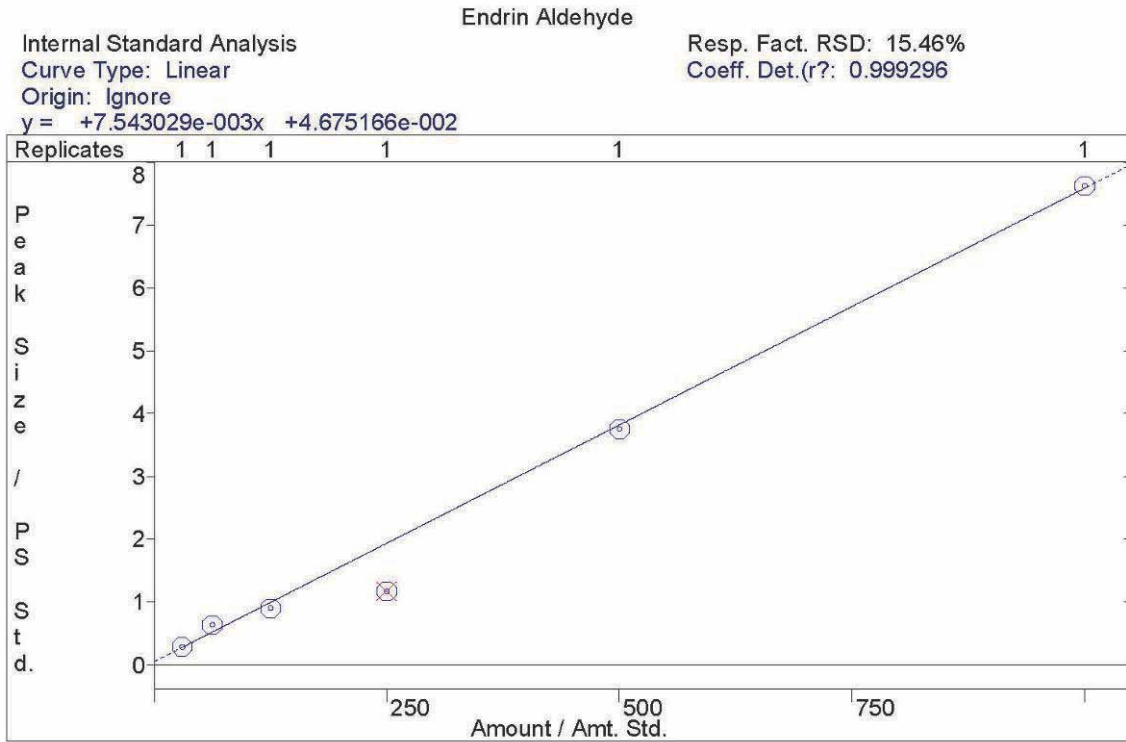


圖18-16 九十七年中藥實驗Endrin aldehyde標準檢量線

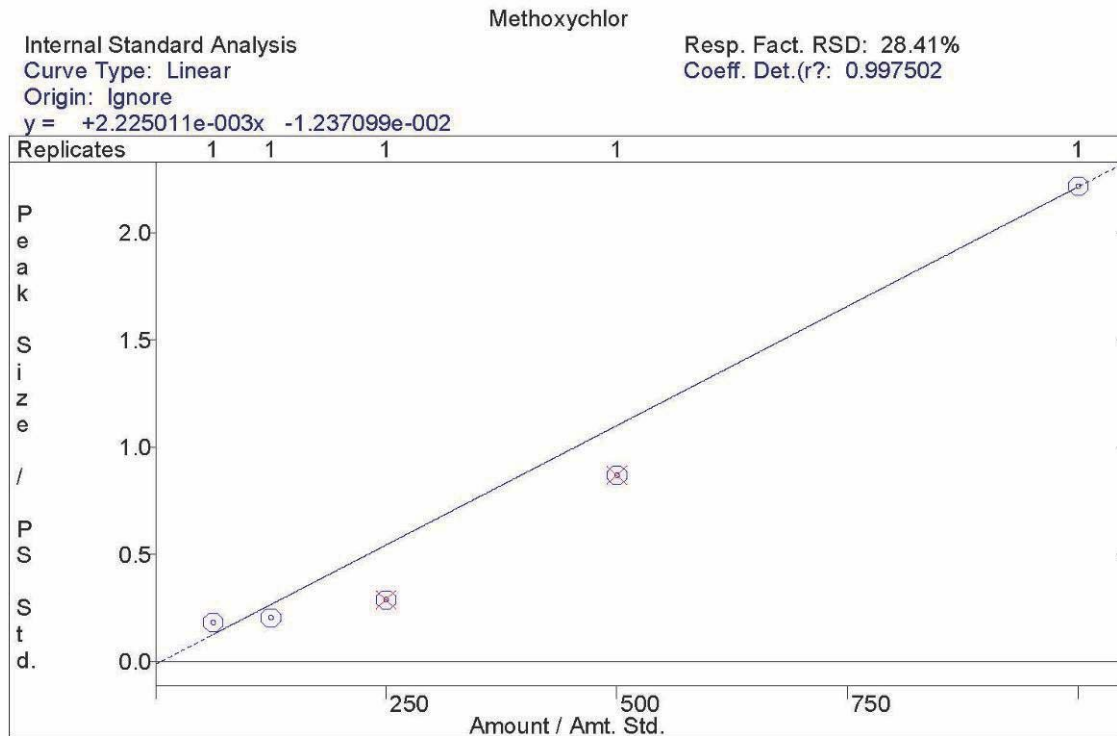


圖18-17 九十七年中藥實驗Methoxychloride標準檢量線

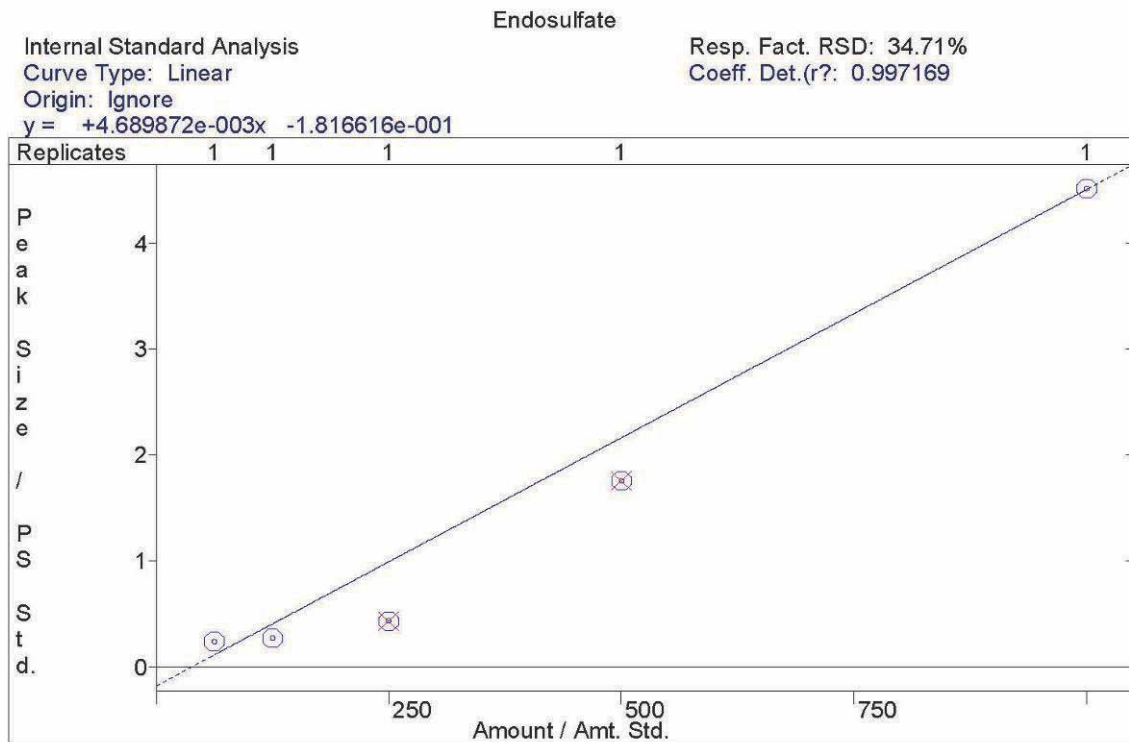


圖18-18 九十七年中藥實驗Endosulfan sulfate標準檢量線

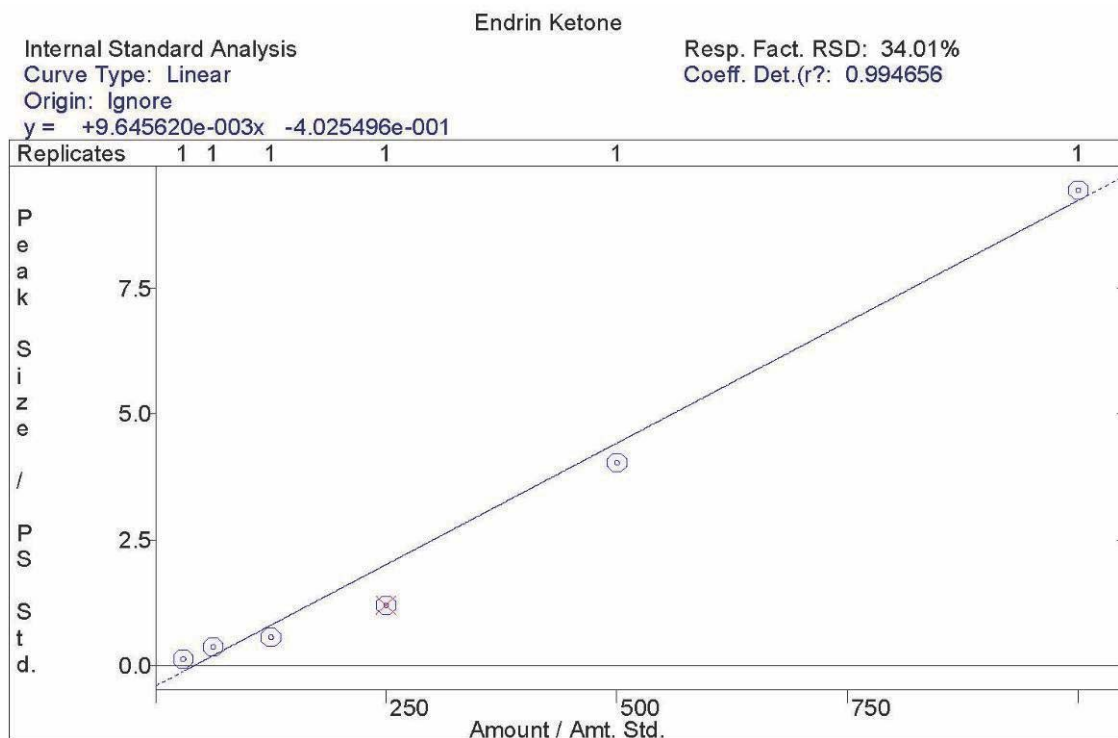


圖18-19 九十七年中藥實驗Endrin ketone標準檢量線

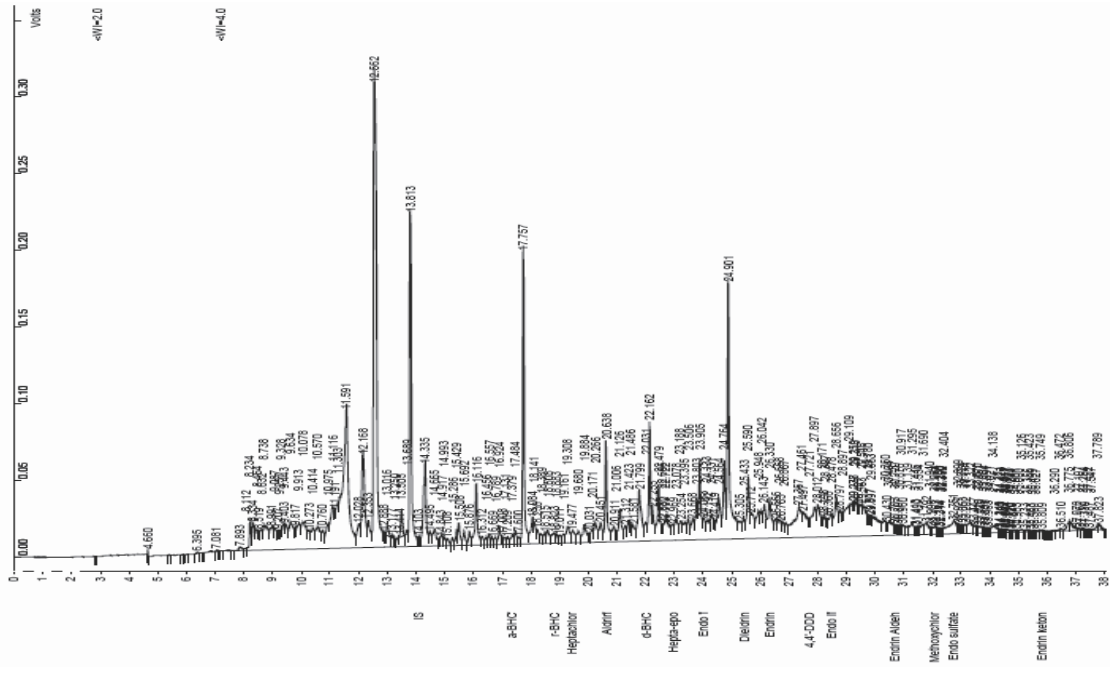


圖 19 艾草氣相層析圖譜 I

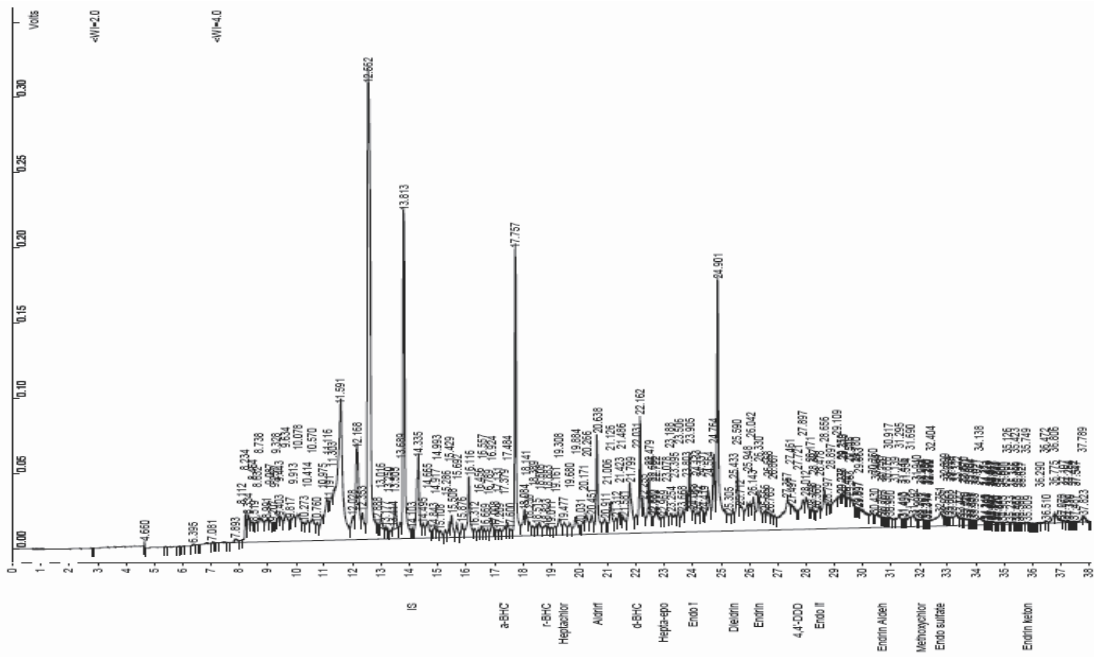


圖 20 艾草氣相層析圖譜 II

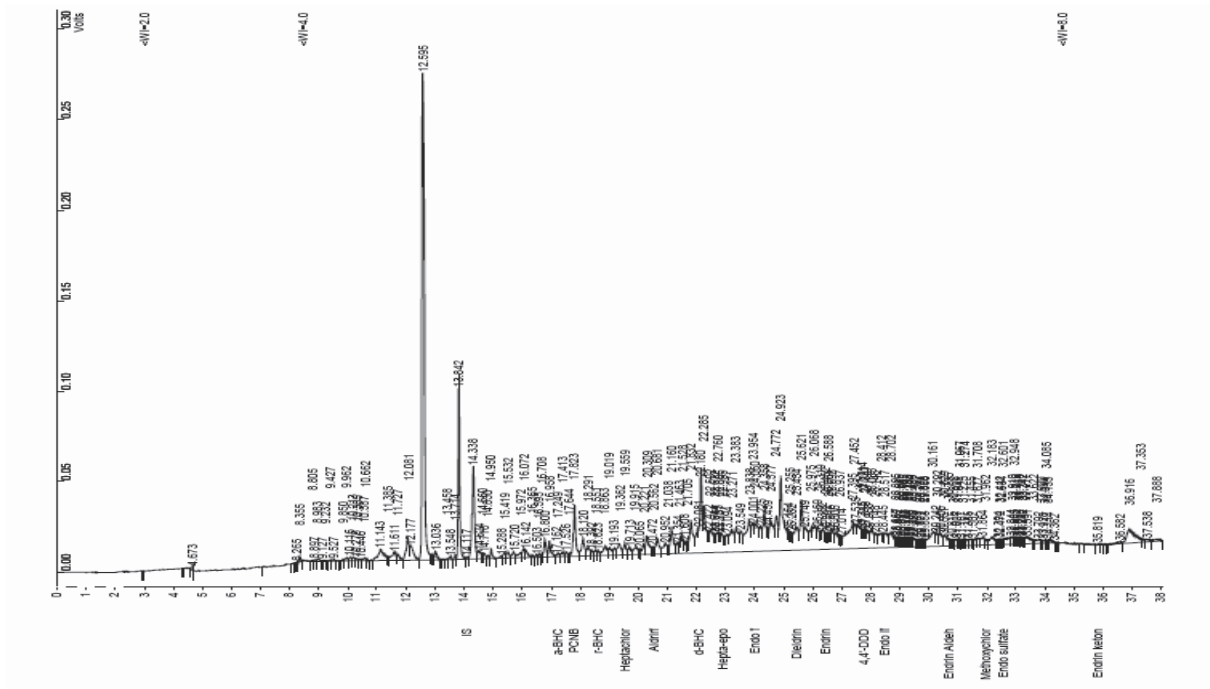


圖21 艾草氣相層析圖譜III

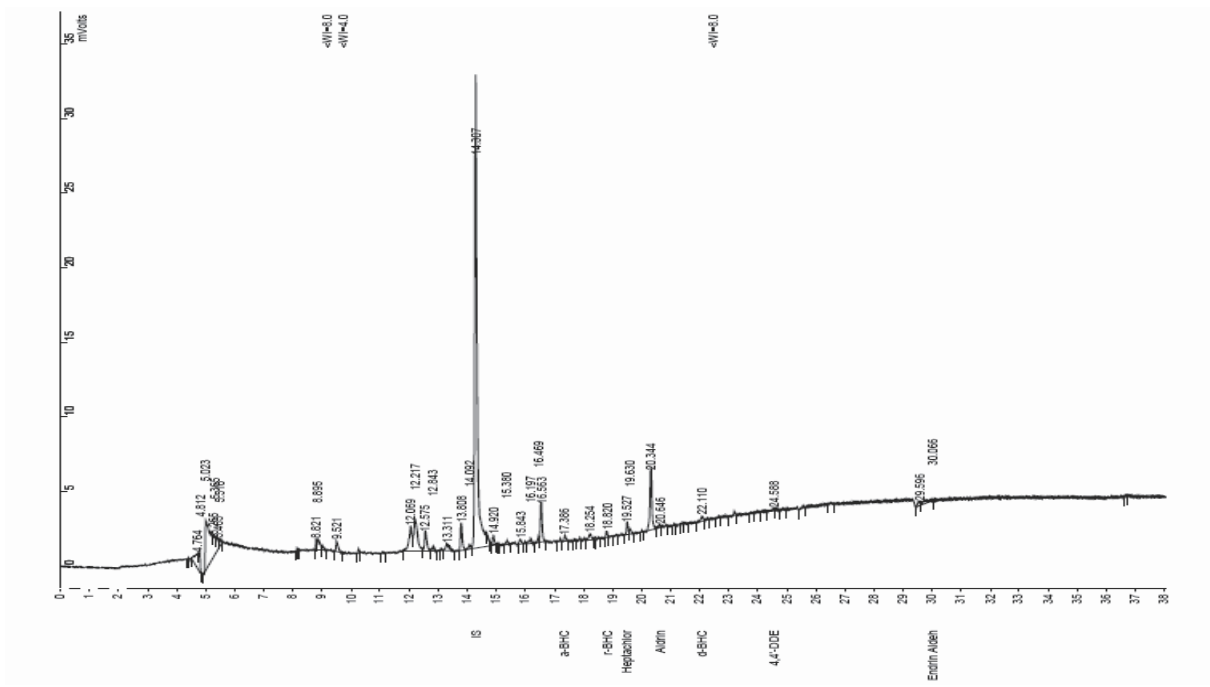


圖22 筆仔草氣相層析圖譜 I

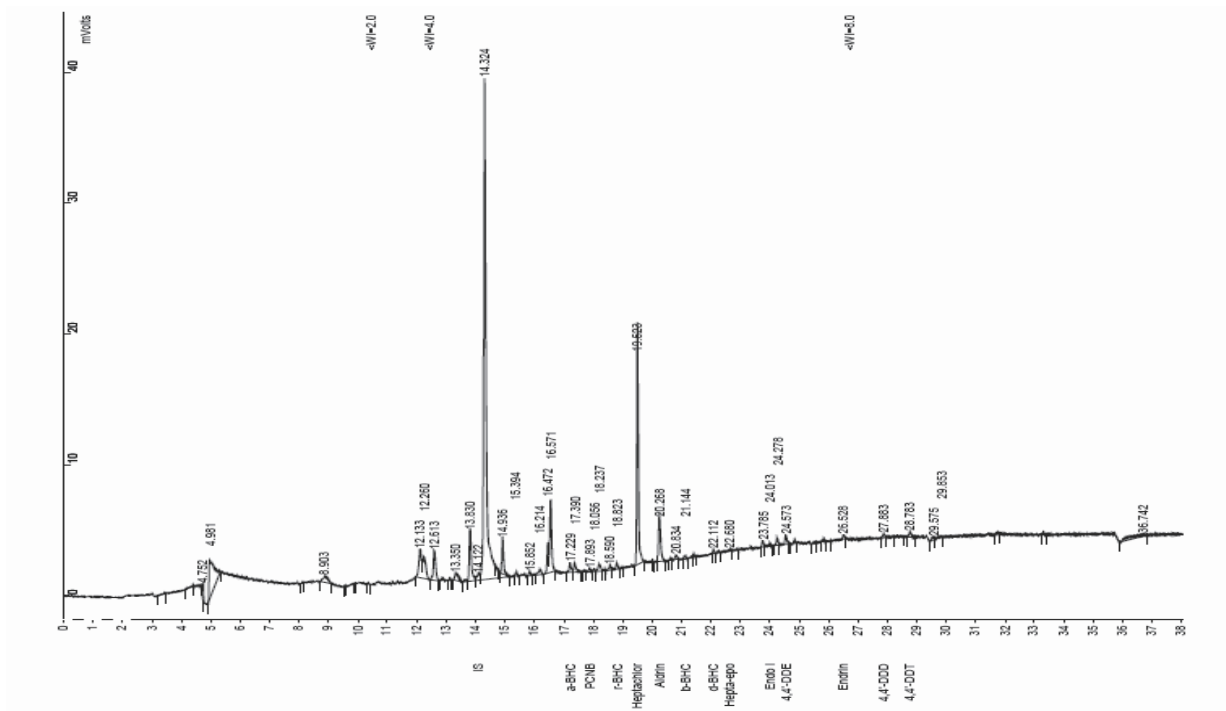


圖23 筆仔草氣相層析圖譜II

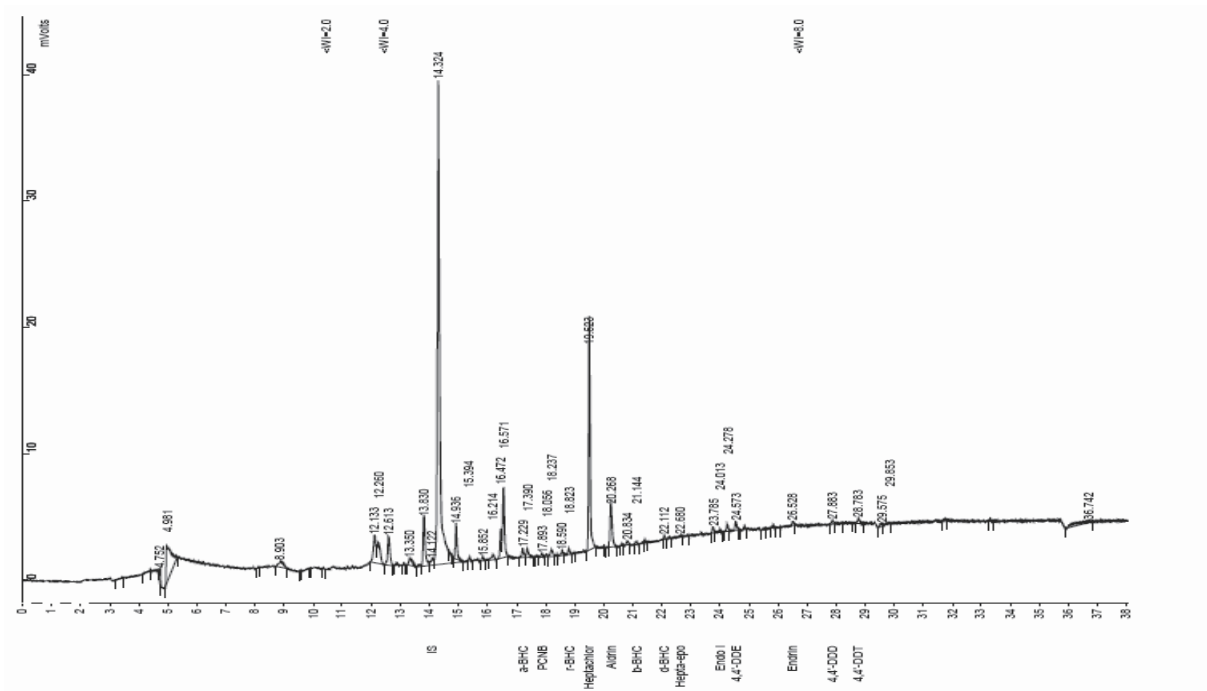


圖24 筆仔草氣相層析圖譜III

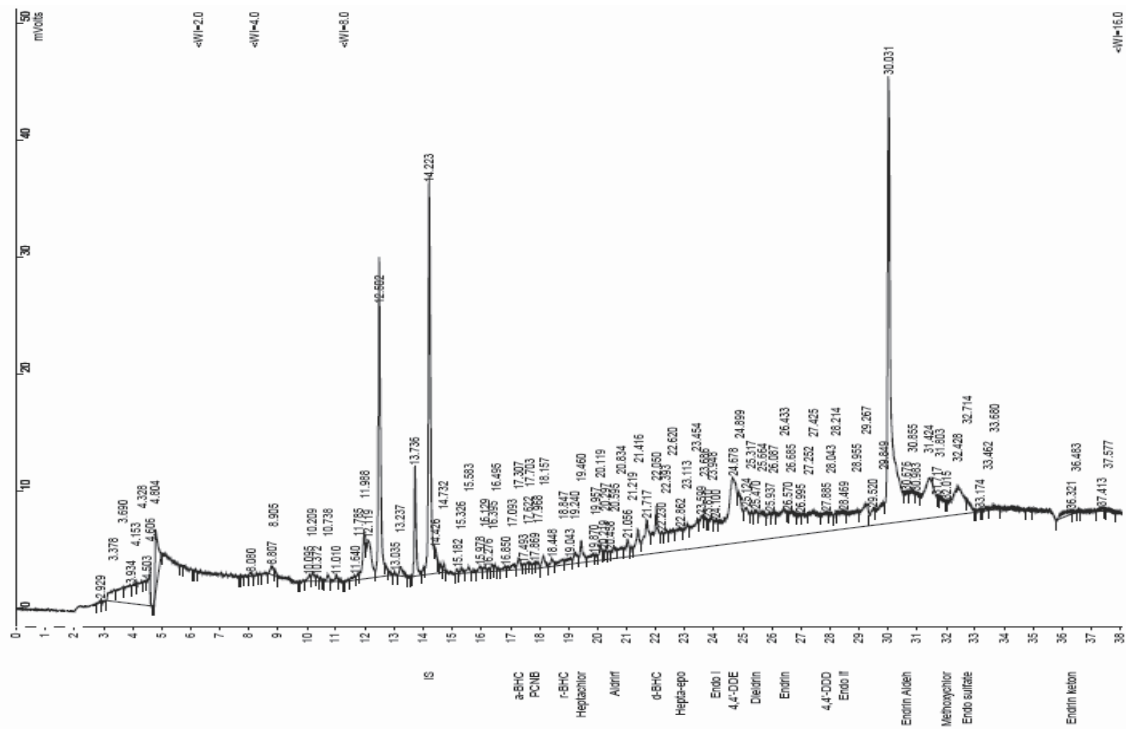


圖25 白花馬齒莧氣相層析圖譜

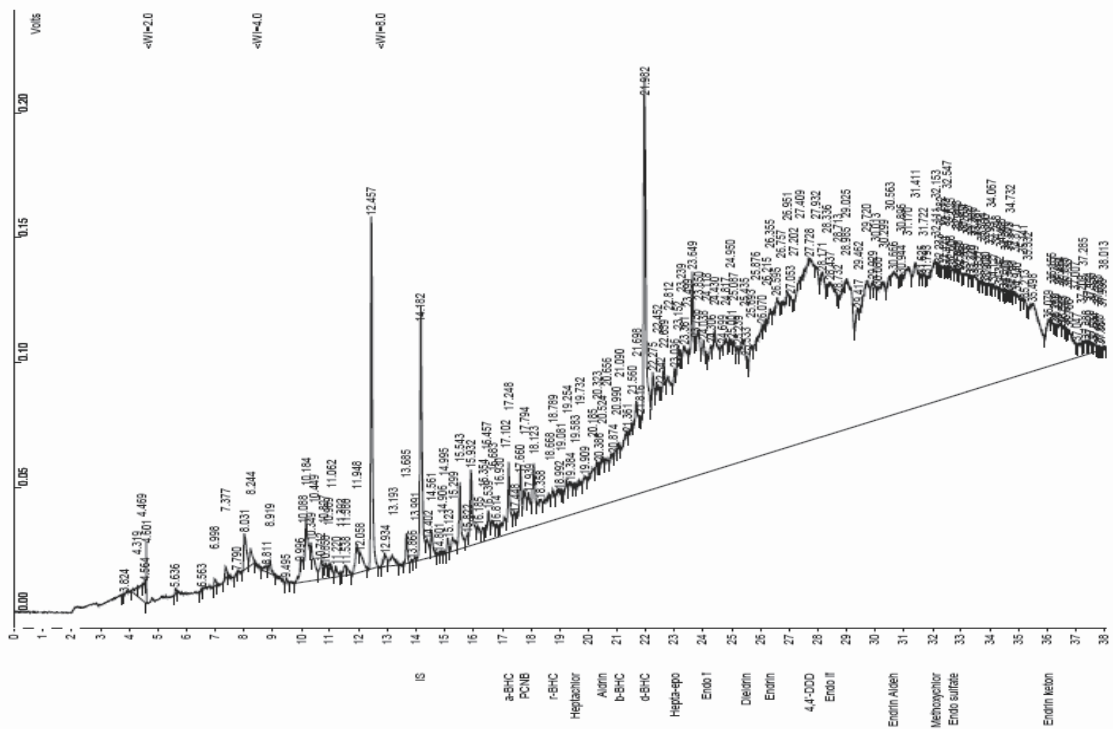


圖26 絞股藍(葉)氣相層析圖譜 I



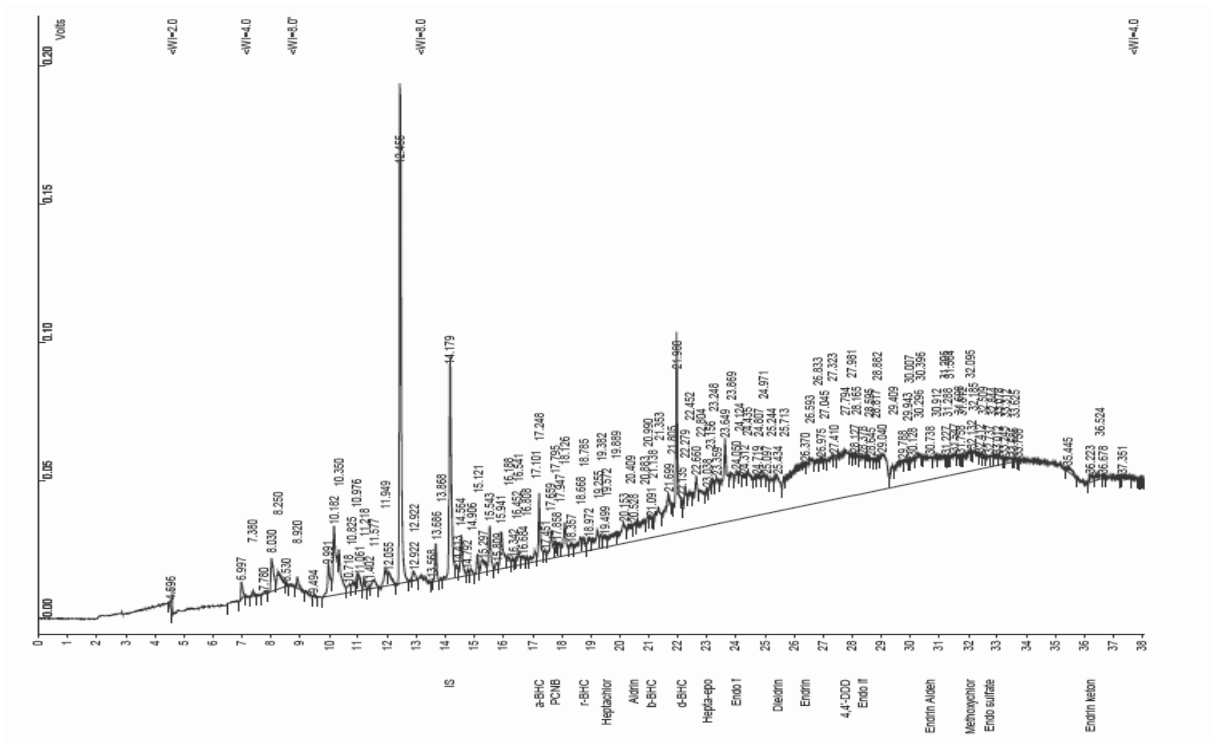


圖27 絞股藍(葉)氣相層析圖譜 II

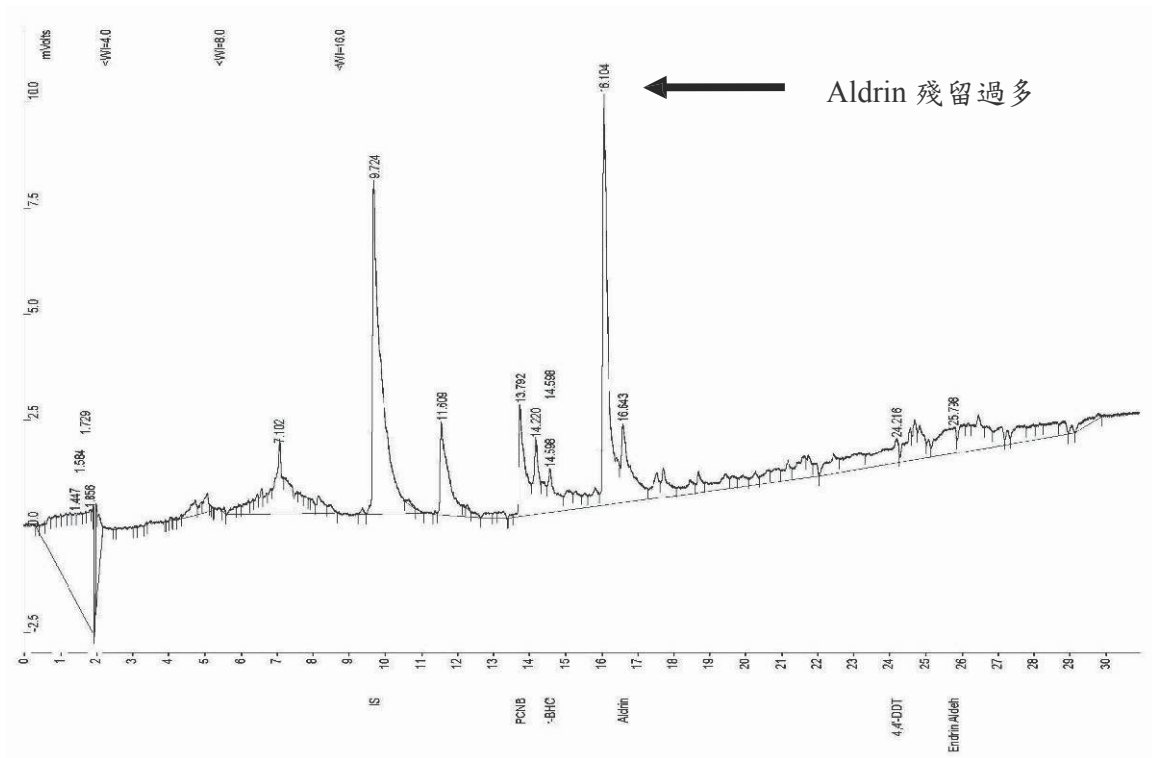


圖28 貝母氣相層析圖譜

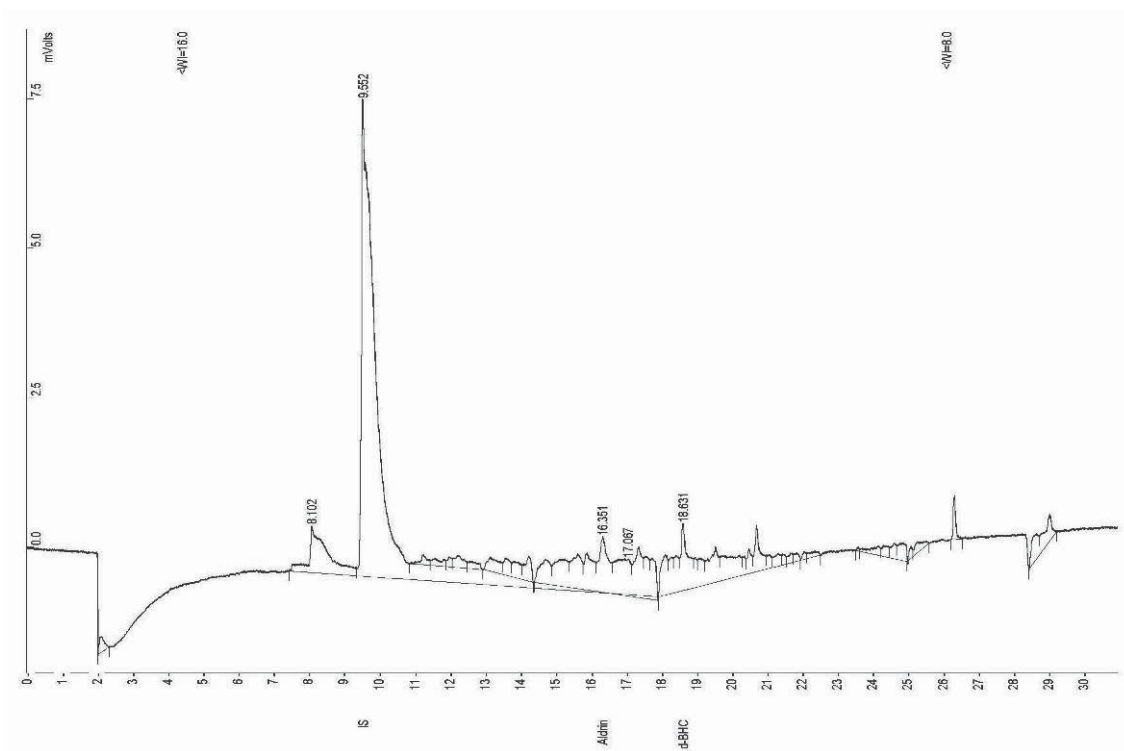


圖29 延胡索氣相層析圖譜

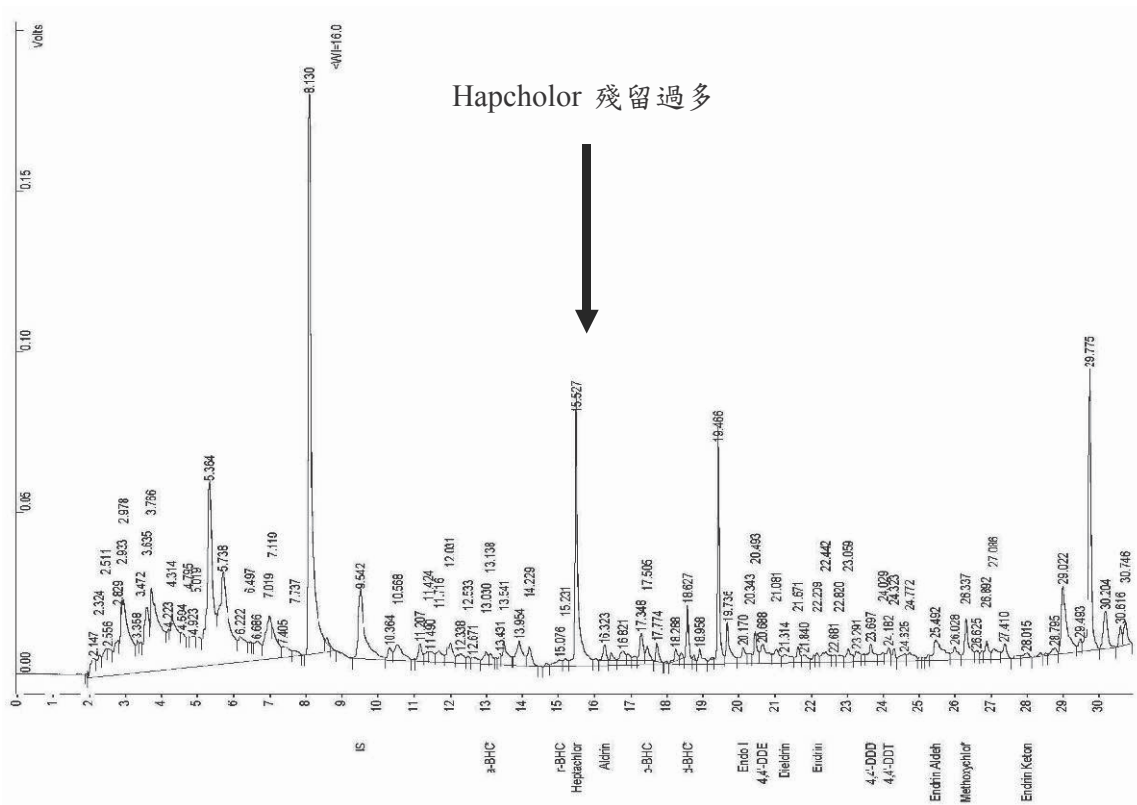


圖30 金銀花氣相層析圖譜

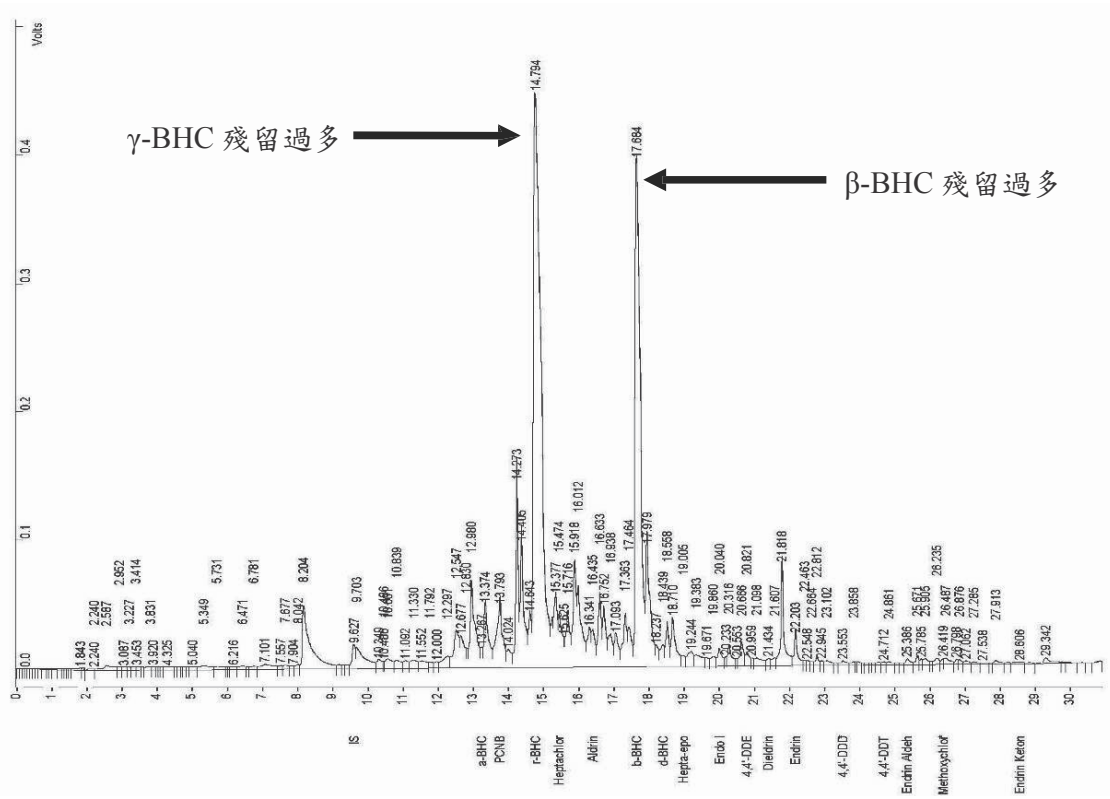


圖31 香附氣相層析圖譜

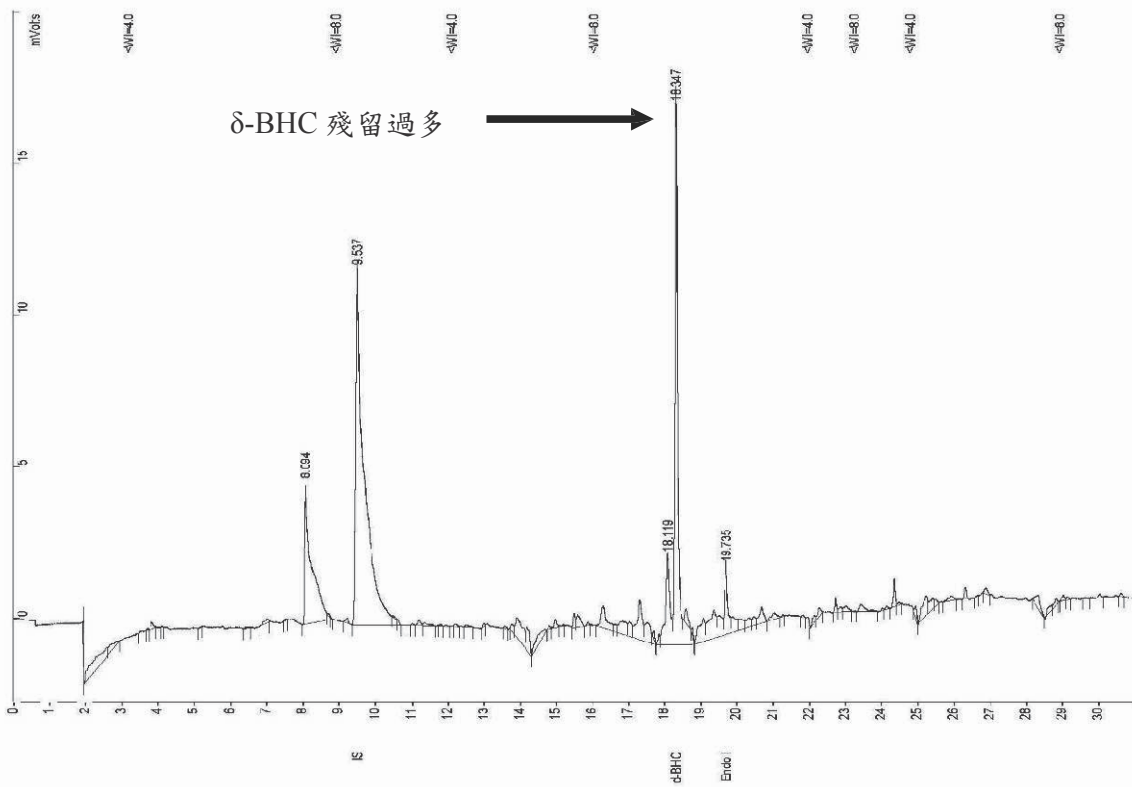


圖32 黨參氣相層析圖譜

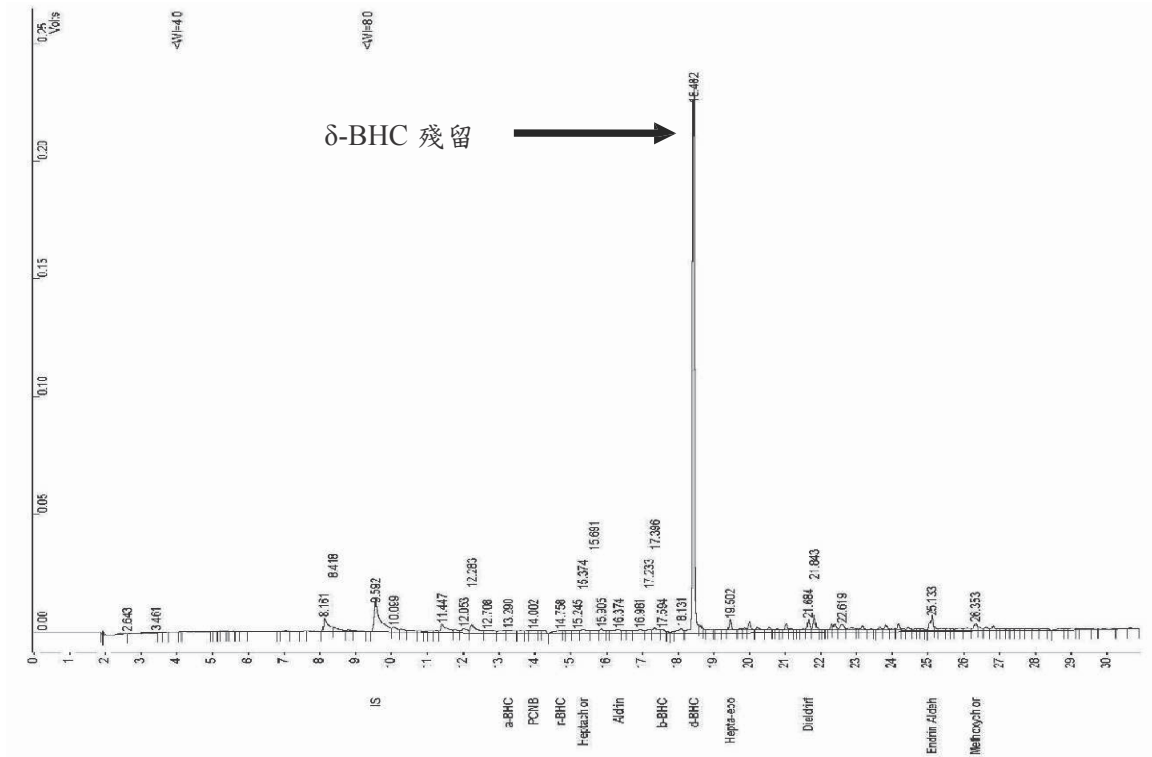


圖33 柴胡氣相層析圖譜

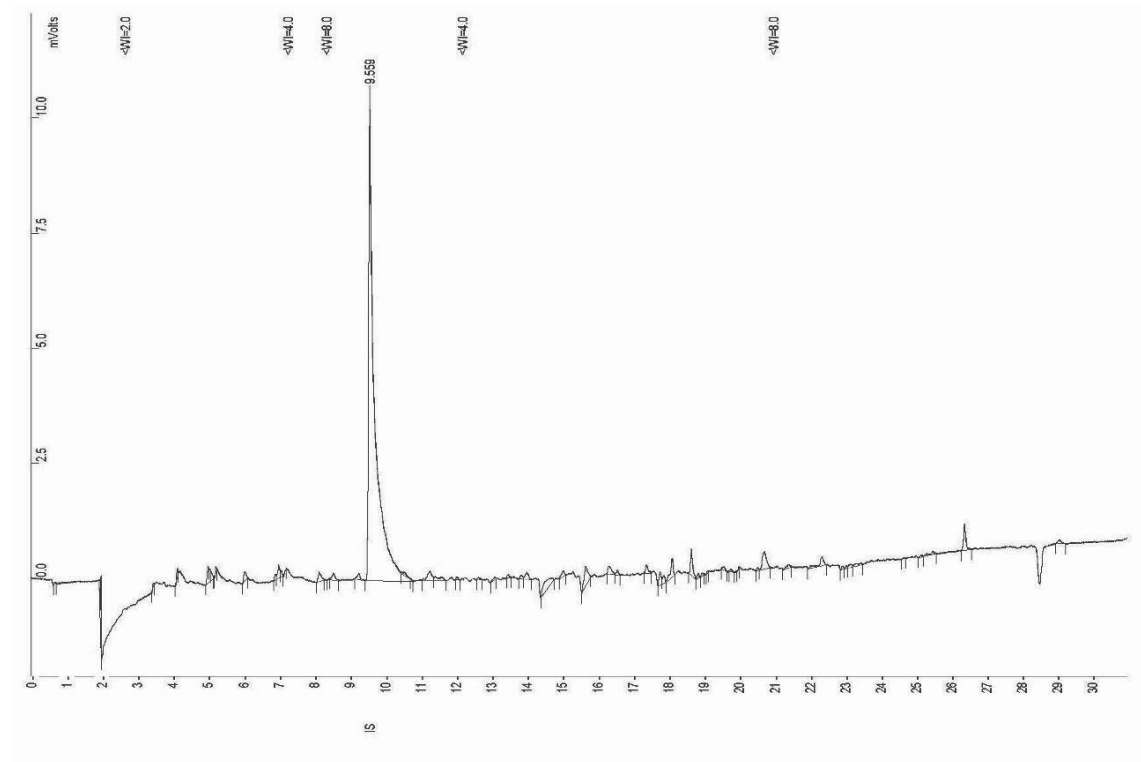


圖34 玄參氣相層析圖譜

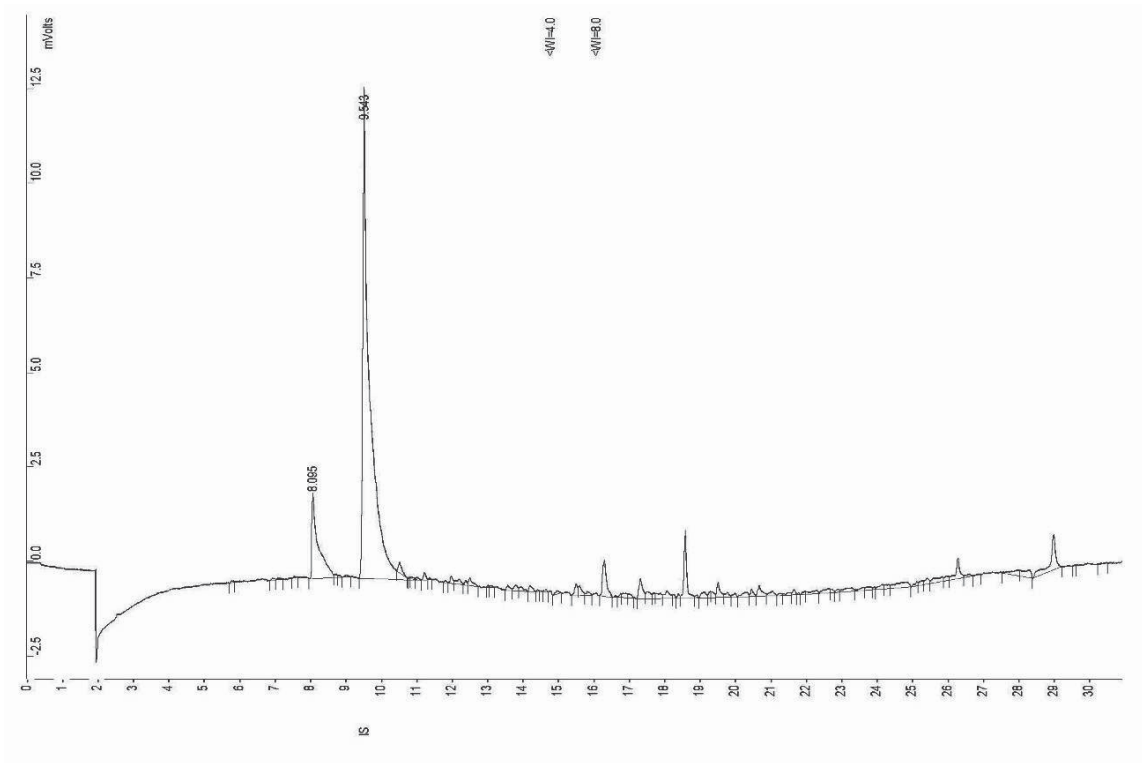


圖35 白芍氣相層析圖譜

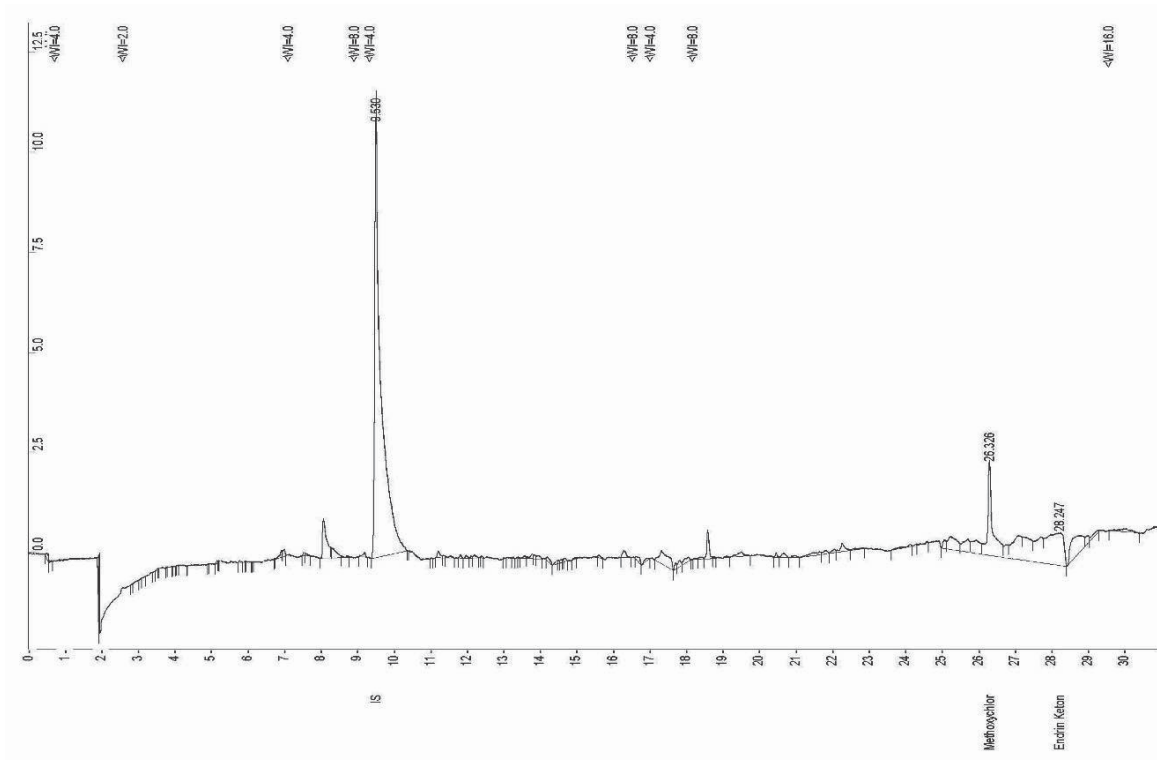


圖36 甘草氣相層析圖譜

表1 車前草有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10
PCNB	6.6693	11.4553	N.D.	N.D.	7.5478	6.7137	6.2337	6.1794	6.2194	6.7958
$\alpha$ -BHC	N.D.	7.7110	N.D.	N.D.	0.6196	1.6481	0.2809	0.3016	0.3327	N.D.
$\beta$ -BHC	12.7140	30.4654	13.2858	16.3869	93.7243	89.8651	14.7922	13.9180	13.9446	18.5219
$\gamma$ -BHC	N.D.	7.4354	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\delta$ -BHC	N.D.	16.5543	1.0811	N.D.	24.7382	16.3183	4.2070	4.3425	N.D.	15.8319
總 BHC	12.7140	62.1661	14.3669	16.3869	119.0822	107.8315	19.2802	18.5620	14.2773	34.3539
4,4'-DDD	N.D.	12.3783	1.5793	N.D.	N.D.	2.2397	1.7588	5.7065	2.9627	1.4437
4,4'-DDE	2.4472	12.7865	N.D.	N.D.	N.D.	11.1659	N.D.	N.D.	N.D.	N.D.
4,4'-DDT	N.D.	15.8757	N.D.	18.3526	14.5959	16.4235	19.7365	14.0713	13.8812	14.6777
總 DDT	2.4472	41.0405	1.5793	18.3526	14.5959	29.8291	21.4953	19.7778	16.8438	16.1215
Aldrin	N.D.	6.4874	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	9.8049	N.D.	N.D.	N.D.	0.6518	N.D.	N.D.	N.D.	N.D.
Aldrin + Dieldrin	N.D.	16.2923	N.D.	N.D.	N.D.	0.6518	N.D.	N.D.	N.D.	N.D.
Endosulfan I	N.D.	10.3527	N.D.	N.D.	N.D.	0.1607	N.D.	N.D.	N.D.	N.D.
Endosulfan II	N.D.	13.5071	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	N.D.	16.9916	17.6150	N.D.	13.4102	20.4968	14.6669	13.4060	13.5088	15.8825
Endrin	7.9711	11.8306	N.D.	N.D.	0.3253	17.8605	2.9885	4.2888	1.0195	3.6243
Endrin aldehyde	N.D.	12.2701	N.D.	17.5480	17.7512	19.5442	18.7992	17.4408	18.2886	19.8299
Endrin ketone	2.1151	14.5540	N.D.	1.6035	0.2413	8.0960	2.2212	0.5808	1.0141	1.9746
Heptachlor	N.D.	9.4786	N.D.	N.D.	N.D.	N.D.	6.2959	N.D.	N.D.	N.D.
Heptachlor epoxide	N.D.	137.1988	N.D.	N.D.	306.7725	12.1863	N.D.	N.D.	N.D.	N.D.
Methoxychlor	N.D.	28.4810	N.D.	40.8660	50.8105	33.8281	28.6785	30.5738	33.4070	29.0917

單位：ppb      N.D.：not detected

表2 鳳尾草有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	6	7	8	9	10	11
PCNB	6.8280	7.5171	N.D.	N.D.	N.D.	N.D.	N.D.	6.3474	6.6575	6.5418
$\alpha$ -BHC	0.5751	0.6769	0.9141	N.D.	N.D.	N.D.	N.D.	1.5305	0.9905	N.D.
$\beta$ -BHC	18.8665	11.3931	14.3122	13.5061	12.8908	N.D.	17.8571	18.9247	19.5239	25.7992
$\gamma$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\delta$ -BHC	124.3481	3.6920	52.5170	2.2850	1.7338	N.D.	115.6266	9.0219	34.4236	64.7396
總 BHC	143.7897	15.7620	67.7434	15.7911	14.6246	N.D.	133.4837	29.4770	54.9380	90.5388
4,4'-DDD	26.7060	4.5203	16.8276	N.D.	3.8410	N.D.	5.1956	7.1677	8.0654	26.7325
4,4'-DDE	33.6735	0.2424	86.3005	N.D.	N.D.	N.D.	N.D.	6.3065	44.8893	80.4815
4,4'-DDT	17.3542	20.6413	N.D.	15.1436	N.D.	N.D.	N.D.	14.8483	15.8678	20.1015
總 DDT	77.7337	25.4040	103.1281	15.1436	3.8410	N.D.	5.1956	28.3226	68.8226	127.3155
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	6.2088
Aldrin + Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	6.2088
Endosulfan I	4.3793	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5.6913	4.9446	4.3736
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	14.7698	26.8835	22.3375	30.1825	24.2145	N.D.	16.5919	54.4476	34.9427	35.0952
Endrin	1.7037	3.6535	4.3310	N.D.	1.5920	N.D.	N.D.	2.1555	4.6250	6.2656
Endrin aldehyde	20.4179	18.4605	18.5316	19.7738	17.4801	N.D.	N.D.	19.7163	20.4760	24.5297
Endrin ketone	1.0965	1.1782	N.D.	2.7970	2.4011	N.D.	N.D.	1.3539	1.2188	1.1335
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2.3032
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	3.1721	7.0831	14.0884
Methoxychlor	41.2789	33.4880	30.0243	27.0529	68.5901	N.D.	35.0208	29.6574	33.8095	36.6421

單位：ppb      N.D.：not detected

表3 夏枯草有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10
PCNB	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	6.8754	N.D.
α-BHC	N.D.	N.D.	N.D.	N.D.	N.D.	2.6967	N.D.	2.3274	2.2690	N.D.
β-BHC	15.0458	18.5208	12.2553	N.D.	N.D.	16.5990	N.D.	16.1690	20.9247	N.D.
γ-BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
δ-BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
總 BHC	15.0458	18.5208	12.2553	N.D.	N.D.	19.2957	N.D.	18.4964	23.1937	N.D.
4,4'-DDD	N.D.	N.D.	N.D.	N.D.	N.D.	2.6309	N.D.	1.9357	1.8222	N.D.
4,4'-DDE	N.D.	2.2067	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDT	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	14.3203	N.D.	N.D.
總 DDT	N.D.	2.2067	N.D.	N.D.	N.D.	2.6309	N.D.	16.2560	1.8222	N.D.
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Aldrin + Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan I	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	N.D.	N.D.	N.D.	N.D.	N.D.	17.8639	N.D.	14.4572	N.D.	N.D.
Endrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endrin aldehyde	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endrin ketone	11.3016	N.D.	2.2708	N.D.	N.D.	6.3785	1.8467	1.2403	9.2621	3.0209
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	N.D.	N.D.	29.5249	N.D.	N.D.	N.D.	N.D.	26.5320	N.D.	N.D.

單位：ppb      N.D.：not detected



表4 白鶴靈芝有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10
PCNB	N.D.	6.7225	N.D.	6.7132	6.7090	N.D.	N.D.	N.D.	N.D.	6.6526
$\alpha$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\beta$ -BHC	12.4167	11.9219	14.9859	13.3998	N.D.	13.8402	12.8771	14.4357	N.D.	17.2280
$\gamma$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\delta$ -BHC	N.D.	N.D.	N.D.	0.5735	N.D.	0.6972	N.D.	N.D.	N.D.	N.D.
總 BHC	12.4167	11.9219	14.9859	13.9733	N.D.	14.5374	12.8771	14.4357	N.D.	17.2280
4,4'-DDD	0.8848	N.D.	N.D.	1.4720	N.D.	1.1514	1.6105	N.D.	N.D.	N.D.
4,4'-DDE	N.D.	N.D.	N.D.	22.6809	9.5677	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDT	14.1825	N.D.	N.D.	N.D.	N.D.	15.1249	N.D.	N.D.	N.D.	N.D.
總 DDT	15.0673	N.D.	N.D.	24.1530	9.5677	16.2763	1.6105	N.D.	N.D.	N.D.
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Aldrin + Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan I	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	14.4533	N.D.	N.D.	N.D.	N.D.	22.3145	16.6597	N.D.	14.9617	N.D.
Endrin	1.5077	N.D.	N.D.	N.D.	N.D.	2.1613	N.D.	N.D.	N.D.	N.D.
Endrin aldehyde	17.5321	N.D.	N.D.	18.1982	N.D.	47.3331	N.D.	N.D.	N.D.	17.4208
Endrin ketone	1.1663	N.D.	N.D.	N.D.	N.D.	1.6606	N.D.	N.D.	N.D.	N.D.
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	27.1313	29.6699	38.8842	27.7177	25.5201	36.5037	26.4588	25.6800	N.D.	64.4979

單位：ppb      N.D.：not detected

表5 黃蓮蕉有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10
PCNB	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\alpha$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\beta$ -BHC	N.D.	N.D.	N.D.	N.D.	15.2464	12.0392	N.D.	N.D.	N.D.	N.D.
$\gamma$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\delta$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
總 BHC	N.D.	N.D.	N.D.	N.D.	15.2464	12.0392	N.D.	N.D.	N.D.	N.D.
4,4'-DDD	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2.6317	N.D.	N.D.	N.D.
4,4'-DDE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDT	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
總 DDT	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2.6317	N.D.	N.D.	N.D.
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Aldrin + Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan I	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endrin aldehyde	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endrin ketone	N.D.	N.D.	N.D.	N.D.	2.1554	1.5202	N.D.	N.D.	N.D.	N.D.
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	N.D.	33.1513	N.D.	33.4437	56.4805	N.D.	27.9672	50.8663	N.D.	31.5671

單位：ppb      N.D.：not detected

表6 桑葉有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10
PCNB	N.D.	6.5609	6.5293	6.8968	N.D.	6.7856	N.D.	6.7422	7.3588	6.5746
$\alpha$ -BHC	N.D.	0.7554	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2.6441
$\beta$ -BHC	23.2037	15.5790	19.5351	18.6950	19.6015	16.6454	14.0223	16.1403	20.0890	13.6718
$\gamma$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\delta$ -BHC	13.2915	N.D.	N.D.	14.6141	27.1987	12.4039	N.D.	5.9955	6.2267	N.D.
總 BHC	36.4952	16.3343	19.5351	33.3090	46.8002	29.0493	14.0223	22.1358	26.3156	16.3160
4,4'-DDD	369.9953	6.5205	1.6152	0.5506	N.D.	8.1728	N.D.	N.D.	1.5549	3.0429
4,4'-DDE	2.4631	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDT	N.D.	N.D.	14.1320	14.0400	N.D.	14.4095	N.D.	N.D.	N.D.	N.D.
總 DDT	372.4584	6.5205	15.7471	14.5906	N.D.	22.5823	N.D.	N.D.	1.5549	3.0429
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Aldrin + Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan I	N.D.	N.D.	1.4765	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.6637
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	N.D.	16.2011	19.6202	14.6884	17.4601	31.9567	17.3360	15.0604	14.2914	21.6993
Endrin	N.D.	2.3636	2.8725	1.0891	N.D.	2.3506	N.D.	N.D.	N.D.	N.D.
Endrin aldehyde	18.6950	N.D.	18.4365	17.3405	N.D.	20.9384	18.2017	17.4590	N.D.	18.4921
Endrin ketone	N.D.	1.2562	1.2362	N.D.	N.D.	1.5904	N.D.	N.D.	N.D.	N.D.
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	3.2186
Heptachlor epoxide	N.D.	N.D.	N.D.	14.6884	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	50.5045	N.D.	98.3617	31.9283	N.D.	32.8581	29.8872	48.5637	N.D.	32.5341

單位：ppb      N.D.：not detected

表 7 雷公根機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10
PCNB	6.8600	7.3597	N.D.	N.D.	6.5216	10.9158	7.9247	N.D.	6.9161	N.D.
$\alpha$ -BHC	0.6685	1.0479	N.D.	N.D.	0.8733	1.4213	0.6150	N.D.	N.D.	N.D.
$\beta$ -BHC	17.2343	29.0013	14.1781	N.D.	30.2445	31.6929	19.8251	15.9282	22.1007	20.8936
$\gamma$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	0.1254	N.D.	N.D.	N.D.	N.D.
$\delta$ -BHC	105.5084	635.2228	184.1668	1.3219	541.4853	440.0228	238.3841	227.3904	340.1915	452.3072
總 BHC	123.4113	665.2720	198.3448	1.3219	572.6031	473.2624	258.8242	243.3186	362.2922	473.2008
4,4'-DDD	2.4422	202.6856	1.5607	113.5198	3.2763	2.9822	1.7570	N.D.	1.7502	1.3563
4,4'-DDE	N.D.	20.2561	1.8195	43.1263	34.0526	28.6106	25.8014	N.D.	32.7197	1.6751
4,4'-DDT	14.4617	73.8508	N.D.	31.9088	N.D.	20.9866	15.5979	N.D.	14.9104	N.D.
總 DDT	16.9039	296.7924	3.3802	188.5549	37.3288	52.5793	43.1564	N.D.	49.3803	3.0314
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	73.8508	N.D.	N.D.	94.3329	6.6529	N.D.	N.D.	2.4634	13.8214
Aldrin + Dieldrin	N.D.	<b>73.8508</b>	N.D.	N.D.	<b>94.3329</b>	6.6529	N.D.	N.D.	2.4634	13.8214
Endosulfan I	94.0788	62.0964	N.D.	N.D.	600.5193	315.5987	118.6441	N.D.	182.6632	370.0358
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	13.6342	147.9814	16.8008	30.9284	16.0667	48.0038	14.2482	14.5123	18.2739	14.2410
Endrin	1.6273	4.7755	2.6480	10.9534	8.6407	10.9782	5.7258	9.5149	5.5191	11.9474
Endrin aldehyde	22.7033	20.8939	17.4579	18.0737	21.0835	45.6770	25.6541	17.7523	30.7604	23.7454
Endrin ketone	N.D.	N.D.	N.D.	N.D.	1.0857	5.2609	1.0754	N.D.	1.5106	N.D.
Heptachlor	N.D.	N.D.	N.D.	7.3463	N.D.	3.0901	N.D.	N.D.	N.D.	N.D.
Heptachlor epoxide	218.4259	522.4903	47.6489	N.D.	551.3915	800.7366	397.9590	183.0238	511.2236	312.6064
Methoxychlor	42.9037	36.7616	34.5055	33.9083	25.6017	44.9529	30.1015	N.D.	32.0670	N.D.

單位：ppb      N.D.：not detected

表8 酢醬草有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10
PCNB	N.D.	N.D.	N.D.	9.9437	N.D.	N.D.	6.6689	N.D.	N.D.	8.1189
$\alpha$ -BHC	N.D.	N.D.	N.D.	1.1061	N.D.	N.D.	N.D.	N.D.	N.D.	1.0899
$\beta$ -BHC	11.8960	14.9939	13.9141	24.0333	27.4918	14.9643	18.7131	423.4781	18.8185	17.0013
$\gamma$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\delta$ -BHC	1.5916	5.2172	5.8176	139.4106	18.5452	0.9231	1.1107	7.3329	2.8769	9.0223
總 BHC	13.4877	20.2111	19.7317	164.5500	46.0370	15.8874	19.8237	430.8110	21.6954	27.1135
4,4'-DDD	9.1710	N.D.	N.D.	5.9903	N.D.	N.D.	N.D.	3.9777	1.0991	5.7191
4,4'-DDE	N.D.	N.D.	3.8079	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2.1561
4,4'-DDT	14.5403	N.D.	N.D.	15.1740	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
總 DDT	23.7113	N.D.	3.8079	21.1642	N.D.	N.D.	N.D.	3.9777	1.0991	7.8752
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	17.0978	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Aldrin + Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	17.0978	N.D.
Endosulfan I	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	14.4488	N.D.	N.D.	66.1027	15.2836	34.1788	14.8026	310.2752	40.3490	14.5014
Endrin	2.1685	N.D.	N.D.	1.8617	N.D.	N.D.	N.D.	93.2793	2.0769	1.7560
Endrin aldehyde	18.3528	N.D.	N.D.	18.4948	19.7763	17.5396	N.D.	34.4958	17.0978	52.9892
Endrin ketone	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1.1994	N.D.
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	32.5458	N.D.	N.D.	32.7023	N.D.	N.D.	N.D.	31.3089	26.6918	31.6078

單位：ppb      N.D.：not detected

表9 羊帶來有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10
PCNB	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\alpha$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\beta$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\gamma$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\delta$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
總 BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDD	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDT	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
總 DDT	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Aldrin + Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan I	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endrin aldehyde	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endrin ketone	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

單位：ppb      N.D.：not detected

表10 金線蓮有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10
PCNB	6.7351	7.4393	6.7482	7.2877	8.2642	6.4102	7.6636	6.8489	7.6052	8.7080
$\alpha$ -BHC	N.D.	0.4826	1.5273	N.D.	0.4901	0.7407	N.D.	0.9089	2.3532	N.D.
$\beta$ -BHC	26.1806	12.1557	13.3752	30.5742	15.3669	11.5494	12.5595	14.0736	13.5060	29.0675
$\gamma$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\delta$ -BHC	N.D.	4.2425	4.6990	1.5746	12.0174	1.1744	1.7295	3.9166	6.3598	N.D.
總 BHC	26.1806	16.8808	19.6015	32.1488	27.8744	13.4645	14.2890	18.8991	22.2190	29.0675
4,4'-DDD	1.8631	3.9092	0.4010	0.5487	2.5811	0.5756	1.3566	1.4813	2.8462	N.D.
4,4'-DDE	N.D.	0.4548	1.5238	N.D.	4.8941	N.D.	7.7354	N.D.	4.5643	N.D.
4,4'-DDT	N.D.	13.9823	13.5723	N.D.	19.2898	13.4317	15.0017	35.4228	13.7632	N.D.
總 DDT	1.8631	18.3463	15.4971	0.5487	26.7650	14.0073	24.0938	36.9041	21.1737	N.D.
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Aldrin + Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan I	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	16.5373	N.D.	38.2465	N.D.
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	13.8894	21.5622	18.4812	16.9609	33.5012	17.2492	13.1318	14.1558	17.3789	19.0033
Endrin	N.D.	8.2900	3.2992	5.0634	20.0761	8.5544	1.6980	13.6665	12.1279	N.D.
Endrin aldehyde	20.3770	18.1230	16.6118	18.9137	17.8861	17.3058	17.1721	16.8882	18.1014	27.5097
Endrin ketone	N.D.	1.8438	1.2971	3.0313	1.1695	5.7618	4.2906	1.2925	0.6573	N.D.
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor epoxide	N.D.	N.D.	9.8573	N.D.	N.D.	N.D.	5.3745	N.D.	25.2963	N.D.
Methoxychlor	29.8597	36.5496	23.7531	27.9029	39.4145	48.3669	45.9811	107.9561	28.5323	29.3925

單位：ppb      N.D.：not detected

表11 人參有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10	11
PCNB	46.3183	36.2232	37.6442	39.6277	147.1255	899.9944	26.6226	79.3073	68.2088	31.1742	109.3421
$\alpha$ -BHC	18.9071	33.1373	11.0805	15.3807	34.9831	16.9925	25.3631	55.1119	65.0642	18.1963	153.0294
$\beta$ -BHC	21.0628	28.7530	16.0528	23.4405	31.9776	21.9719	24.0529	29.1083	53.6165	19.1705	78.9055
$\gamma$ -BHC	9.5484	14.6707	10.8796	10.8662	14.9790	12.7964	14.8497	33.2243	20.4121	14.3661	40.6514
$\delta$ -BHC	55.4447	109.7266	16.6427	52.6666	132.7112	97.1474	55.3540	83.2080	44.2688	51.3852	130.7950
總 BHC	104.9630	186.2877	54.6557	102.3540	<b>214.6508</b>	148.9082	119.6197	<b>200.6525</b>	183.3617	103.1181	<b>403.3813</b>
4,4'-DDD	N.D.	12.7968	N.D.	N.D.	13.1620	14.1352	14.5779	N.D.	N.D.	12.2091	12.0821
4,4'-DDE	N.D.	9.5204	N.D.	N.D.	11.0922	N.D.	9.6184	N.D.	N.D.	9.7795	N.D.
4,4'-DDT	26.5831	29.6486	16.0903	N.D.	17.3125	15.8988	23.5789	16.1688	16.0659	N.D.	N.D.
總 DDT	26.5831	51.9658	16.0903	N.D.	41.5667	30.0340	47.7752	16.1688	16.0659	21.9886	12.0821
Aldrin	24.8448	14.5515	16.5402	11.0816	40.3056	353.1827	10.3577	19.0612	23.3074	11.9725	29.3805
Dieldrin	N.D.	9.2539	N.D.	N.D.	10.2935	13.0200	8.9565	N.D.	N.D.	N.D.	8.9559
Aldrin + Dieldrin	24.8448	23.8054	16.5402	11.0816	<b>50.5990</b>	<b>366.2027</b>	19.3142	19.0612	23.3074	11.9725	38.3363
Endosulfan I	9.4455	N.D.	N.D.	9.2690	9.3038	11.1921	9.8707	N.D.	N.D.	9.7556	9.2800
Endosulfan II	N.D.	N.D.	N.D.	N.D.	13.8468	12.4424	N.D.	11.8266	N.D.	N.D.	N.D.
Endosulfan sulfate	N.D.	N.D.	17.6127	N.D.	18.8771	18.3050	22.9189	N.D.	N.D.	N.D.	18.9185
Endrin	14.1734	17.2313	N.D.	12.0506	42.0896	15.3513	13.3109	N.D.	N.D.	14.3197	N.D.
Endrin aldehyde	N.D.	10.0566	N.D.	N.D.	10.8349	12.3536	13.4880	N.D.	11.5254	10.1550	12.1777
Endrin ketone	22.7799	21.8989	13.2894	22.6190	13.7113	13.3053	14.1965	21.7085	14.0123	13.6490	13.2758
Heptachlor	7.0225	7.4203	7.6048	7.0470	6.9681	15.5282	7.4239	8.4118	8.6098	9.6618	8.8393
Heptachlor epoxide	10.4753	10.0970	8.3991	9.8290	29.9697	12.1008	8.3304	N.D.	N.D.	15.7565	15.3042
Methoxychlor	N.D.	N.D.	N.D.	N.D.	19.8989	18.4785	20.2025	N.D.	N.D.	N.D.	N.D.

單位：ppb      N.D.：not detected



表12 人參鬚有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10	11
PCNB	<b>2247.6492</b>	<b>1166.6187</b>	<b>1076.0022</b>	722.4048	497.7873	231.9077	24.5827	311.3527	<b>1138.5178</b>	940.9739	982.7088
α-BHC	202.5081	26.3084	34.1191	23.2530	20.5885	291.6783	11.3269	16.8820	14.1228	114.9837	327.6011
β-BHC	94.3840	18.3157	60.9862	18.3560	19.0943	138.3109	15.8273	17.5698	20.0957	55.6103	109.8628
γ-BHC	108.0900	15.3629	19.5143	14.9364	18.1438	283.3044	11.6104	14.0446	14.5018	66.1476	224.0949
δ-BHC	741.0740	79.3610	178.6807	69.6576	127.6370	794.1510	35.2660	117.4567	158.1158	284.0510	611.4210
總 BHC	<b>1146.0561</b>	139.3480	293.3003	126.2031	185.4636	<b>1507.4446</b>	74.0305	165.9531	206.8362	520.7926	<b>1272.9798</b>
4,4'-DDD	15.0194	12.0720	13.2265	19.0920	12.3364	19.0926	N.D.	12.1100	16.0580	13.3990	13.5480
4,4'-DDE	15.7684	9.6522	17.8173	10.3187	N.D.	10.1208	N.D.	10.3099	9.8987	9.8149	11.0345
4,4'-DDT	21.4937	16.7558	16.2289	15.5199	N.D.	16.1735	15.7446	15.7225	19.9682	16.8793	15.1352
總 DDT	52.2815	38.4800	47.2727	44.9306	12.3364	45.3869	15.7446	38.1424	45.9248	40.0932	39.7178
Aldrin	1063.3386	436.5735	463.1423	168.0097	60.4565	31.7704	8.0580	113.1921	312.2170	340.1100	545.5093
Dieldrin	11.8994	16.0395	10.4672	9.3272	9.8946	8.8342	N.D.	9.2887	9.9446	12.2578	8.8663
Aldrin + Dieldrin	<b>1075.2380</b>	<b>452.6130</b>	<b>473.6095</b>	<b>177.3369</b>	<b>70.3512</b>	40.6045	8.0580	<b>122.4808</b>	<b>322.1615</b>	<b>352.3678</b>	<b>554.3756</b>
Endosulfan I	20.0969	12.8529	14.9751	10.4293	10.0208	9.5581	9.4808	10.8755	9.4761	11.7545	15.0925
Endosulfan II	28.5383	14.3567	12.5132	14.7510	N.D.	17.0737	11.6222	12.6234	17.2102	14.1581	12.0797
Endosulfan sulfate	22.7139	18.1287	19.2592	18.5613	N.D.	19.0791	21.6132	N.D.	24.5257	17.0473	N.D.
Endrin	<b>251.4876</b>	N.D.	17.9222	<b>53.7675</b>	14.5499	47.9778	13.0007	<b>126.0050</b>	<b>147.5012</b>	<b>106.3574</b>	13.2391
Endrin aldehyde	28.5085	12.7641	13.5662	10.0579	10.4297	14.7059	N.D.	14.4137	18.3260	14.0831	10.5696
Endrin ketone	17.0299	26.5231	17.3148	14.7221	26.9539	14.5702	14.6317	14.1721	17.3076	13.8486	16.3465
Heptachlor	21.2581	8.3390	9.1035	8.6699	7.1519	7.3592	14.8197	9.2017	10.7006	7.6500	7.6503
Heptachlor epoxide	37.0564	17.4643	11.7517	20.8960	25.5209	40.7522	24.1820	71.0860	150.6453	26.0096	33.6125
Methoxychlor	87.0399	22.4621	17.8130	18.0366	26.1642	17.5873	N.D.	18.0184	30.2184	22.6136	46.4111

單位：ppb      N.D.：not detected

表13 黃耆有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10	11
PCNB	13.1362	11.7600	11.9542	10.6212	10.6493	11.7045	10.8693	13.3493	10.7363	10.9928	12.2061
$\alpha$ -BHC	7.8950	8.0020	7.6779	7.6099	N.D.	8.0726	7.7714	8.1975	7.6267	7.9817	8.5406
$\beta$ -BHC	17.9705	N.D.	13.7766	22.3304	16.6265	15.8753	14.5138	15.8325	19.7723	14.4897	18.2196
$\gamma$ -BHC	7.9655	N.D.	8.4655	11.4091	7.8803	9.1000	8.1009	8.5263	8.0945	9.0315	13.1640
$\delta$ -BHC	9.5977	8.3800	9.5199	8.6237	8.6452	10.1903	8.8364	9.8247	10.5723	11.6686	10.8405
總 BHC	43.4285	16.3820	39.4400	49.9731	33.1520	43.2382	39.2224	42.3809	46.0658	43.1715	50.7648
4,4'-DDD	14.0833	N.D.	12.3161	15.4426	N.D.	12.0467	12.4186	13.5963	12.9178	16.4550	14.3538
4,4'-DDE	11.0257	10.0729	9.5770	9.5733	N.D.	11.5137	9.4148	11.1723	N.D.	10.4817	10.3588
4,4'-DDT	19.3156	15.9943	16.9405	28.1456	16.2282	24.8890	15.2480	18.2318	19.3318	17.4818	16.2987
總 DDT	44.4245	26.0672	38.8336	53.1615	16.2282	48.4494	37.0815	43.0004	32.2496	44.4185	41.0113
Aldrin	7.0622	7.2143	7.3039	6.9660	N.D.	7.0987	6.9147	7.7227	N.D.	7.3039	9.7067
Dieldrin	9.1197	N.D.	8.9117	9.9780	N.D.	10.5074	9.8785	9.3152	9.2424	10.6317	9.7859
Aldrin + Dieldrin	16.1819	7.2143	16.2156	16.9440	N.D.	17.6061	16.7932	17.0379	9.2424	17.9356	19.4927
Endosulfan I	10.4769	N.D.	9.0906	9.4285	9.4392	12.5036	9.4176	10.1326	10.3680	11.7489	11.1147
Endosulfan II	N.D.	N.D.	N.D.	15.7646	N.D.	N.D.	N.D.	12.3992	N.D.	N.D.	N.D.
Endosulfan sulfate	21.0299	N.D.	17.7707	22.5399	N.D.	N.D.	N.D.	17.4721	N.D.	N.D.	N.D.
Endrin	12.9358	N.D.	12.4152	13.5373	12.2199	13.7674	12.2621	13.3232	11.9312	14.0103	12.9956
Endrin aldehyde	16.3094	9.8306	10.4112	10.9461	10.6126	14.0719	10.0366	11.9362	10.5408	11.2898	10.7742
Endrin ketone	16.8428	13.2617	12.5263	16.1620	13.7000	14.4227	12.5305	13.5313	13.5212	13.3950	13.6297
Heptachlor	7.7418	7.1801	7.6589	7.7467	7.1419	7.2570	7.5201	8.0292	7.0502	7.2938	9.8428
Heptachlor epoxide	8.5524	N.D.	8.5609	8.2054	N.D.	8.4682	8.5450	9.1053	8.2435	10.5694	10.3776
Methoxychlor	41.7050	25.5879	18.1712	N.D.	N.D.	26.3311	15.8213	18.5818	16.8894	23.4263	17.3041

單位：ppb N.D.：not detected

表 14 甘草有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10	11
PCNB	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\alpha$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\beta$ -BHC	5.0740	7.9409	4.4382	6.9306	5.3875	6.9251	4.9607	4.6092	4.1080	4.2002	4.4663
$\gamma$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\delta$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
總 BHC	5.0740	7.9409	4.4382	6.9306	5.3875	6.9251	4.9607	4.6092	4.1080	4.2002	4.4663
4,4'-DDD	N.D.	6.2482	5.7222	6.2082	5.7981	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDT	N.D.	5.8600	6.1124	5.8549	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
總 DDT	N.D.	12.1082	11.8346	12.0631	5.7981	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Aldrin + Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan I	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	23.5557	23.5836	22.9655	23.4418	30.5408	N.D.	1.1314	22.2120	22.4548	N.D.	22.2813
Endrin	N.D.	N.D.	0.0349	N.D.	N.D.	N.D.	N.D.	N.D.	0.4092	N.D.	N.D.
Endrin aldehyde	13.9473	14.2786	14.3416	14.3149	14.8172	N.D.	14.5274	14.3395	N.D.	14.3102	14.3986
Endrin ketone	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	N.D.	N.D.	15.4249	N.D.	15.1087	N.D.	15.7805	15.2582	15.3418	N.D.	15.2921

單位：ppb      N.D.：not detected

表15 番瀉葉有機氯農藥殘留檢測結果

農藥名稱 檢品編號	1	2	3	4	5	6	7	8	9	10	11
PCNB	12.3338	11.9732	13.5723	11.8498	12.2915	11.3937	11.6215	12.8273	14.2908	12.4985	17.8229
α-BHC	12.2351	11.4995	14.1268	12.8926	11.8347	7.9727	11.9167	15.1000	10.6043	8.0012	15.8429
β-BHC	19.4278	22.1053	21.8571	22.0892	35.2015	14.6227	21.4385	34.6193	27.4586	29.9924	38.4827
γ-BHC	10.1702	7.8924	10.2555	9.7318	12.6211	7.8312	8.7255	13.5090	9.3277	10.3698	11.9061
δ-BHC	10.3710	12.8127	21.5522	16.4060	16.5793	9.0389	12.3730	15.6476	14.8817	16.9730	19.6274
總 BHC	52.2041	54.3099	67.7916	61.1196	76.2366	39.4656	54.4538	78.8759	62.2723	65.3363	85.8590
4,4'-DDD	15.1576	14.5594	55.6151	36.9668	18.5329	15.7548	18.4568	40.9181	22.2242	30.4560	19.8963
4,4'-DDE	14.6232	12.1118	186.0885	25.4658	32.4094	12.1875	18.4059	33.5303	19.4549	21.2292	25.9985
4,4'-DDT	27.8781	21.1931	38.0846	53.0065	15.7226	26.0488	28.6127	46.5829	32.7345	18.1949	39.8152
總 DDT	57.6589	47.8643	<b>279.7882</b>	115.4391	66.6650	53.9911	65.4754	121.0312	74.4136	69.8801	85.7101
Aldrin	7.1546	6.9101	9.6875	11.0055	7.0911	6.8953	8.3652	10.6538	11.2541	16.1611	11.6848
Dieldrin	8.6913	9.6833	51.6037	51.0976	11.3482	9.3470	14.8483	18.9080	20.5692	16.5129	37.4921
Aldrin + Dieldrin	15.8459	16.5934	<b>61.2913</b>	<b>62.1031</b>	18.4393	16.2424	23.2135	29.5618	31.8234	32.6740	49.1768
Endosulfan I	13.6621	27.6927	77.1445	54.8529	16.1044	12.2060	24.1176	32.3402	29.7761	17.1989	35.4541
Endosulfan II	16.0228	19.9928	N.D.	58.3744	N.D.	14.8820	28.2385	30.2913	28.5188	N.D.	35.1213
Endosulfan sulfate	28.3335	26.8153	122.0700	68.9915	68.8943	17.2579	18.8750	23.0160	52.6023	39.0874	56.7937
Endrin	15.6218	23.9638	104.4341	27.4061	12.8800	12.8884	30.8359	35.4898	29.9095	36.5544	41.5251
Endrin aldehyde	32.5203	11.8497	10.1402	135.8980	93.6207	12.9665	9.4026	11.7928	181.9569	142.8872	54.5521
Endrin ketone	18.3123	14.5633	106.7968	52.9083	48.4682	17.4375	15.2375	15.2988	41.5419	14.1622	14.0807
Heptachlor	9.3831	8.6433	12.4358	10.1949	8.3015	7.1913	10.1501	11.8205	7.3655	13.3391	9.2596
Heptachlor epoxide	9.4615	9.7446	32.3633	19.0338	22.3307	8.3663	16.0888	17.2397	18.7160	29.1372	22.1259
Methoxychlor	32.6672	61.6711	244.2545	141.8409	147.0472	31.5723	30.8085	42.1224	110.2723	18.7771	49.4514

單位：ppb      N.D.：not detected

表16 麥門冬有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10	11
PCNB	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\alpha$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\beta$ -BHC	6.8799	6.1719	8.4884	5.3053	5.4138	N.D.	12.1591	N.D.	5.0784	13.5371	N.D.
$\gamma$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\delta$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
總 BHC	6.8799	6.1719	8.4884	5.3053	5.4138	N.D.	12.1591	N.D.	5.0784	13.5371	N.D.
4,4'-DDD	7.0577	5.6212	N.D.	5.5544	6.3260	N.D.	N.D.	N.D.	6.0909	6.3017	N.D.
4,4'-DDE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDT	7.0726	5.6798	N.D.	5.6365	6.0233	5.7659	N.D.	N.D.	6.1683	6.2444	N.D.
總 DDT	14.1303	11.3010	N.D.	11.1909	12.3493	5.7659	N.D.	N.D.	12.2592	12.5460	N.D.
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Aldrin + Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan I	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	74.0478	23.1777	24.1446	22.4753	22.8164	22.5414	22.7529	N.D.	22.3492	22.8047	N.D.
Endrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1411	N.D.	N.D.	N.D.	N.D.
Endrin aldehyde	13.9391	14.3768	N.D.	13.9548	14.1412	13.9978	14.9737	N.D.	14.0872	14.2583	N.D.
Endrin ketone	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1039	N.D.
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	16.4828	15.3060	N.D.	15.6341	15.7684	15.2025	15.7251	N.D.	15.4156	16.5754	N.D.

單位：ppb N.D.：not detected

表 17 桔梗有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10	11
PCNB	11.8077	N.D.	11.0421	N.D.	10.7053	N.D.	11.4584	N.D.	N.D.	N.D.	N.D.
$\alpha$ -BHC	8.0549	N.D.	7.9866	8.0878	8.4819	N.D.	9.2566	N.D.	N.D.	N.D.	N.D.
$\beta$ -BHC	14.9607	16.0799	14.1935	20.1208	15.0549	N.D.	22.2882	N.D.	N.D.	N.D.	N.D.
$\gamma$ -BHC	8.0840	8.2991	7.7949	N.D.	7.9216	8.5883	8.1333	N.D.	N.D.	N.D.	N.D.
$\delta$ -BHC	8.1260	8.6846	8.8493	9.0702	8.8895	8.4394	11.2395	8.4406	8.3345	8.5916	8.4069
總 BHC	39.2255	33.0637	38.8242	37.2788	40.3480	17.0277	50.9176	8.4406	8.3345	8.5916	8.4069
4,4'-DDD	13.7800	13.5394	12.7382	21.2472	11.7175	19.1867	16.7796	N.D.	N.D.	12.3890	N.D.
4,4'-DDE	9.8334	N.D.	10.9814	10.0605	9.6310	N.D.	11.7969	N.D.	N.D.	N.D.	N.D.
4,4'-DDT	15.6621	17.5133	21.3006	22.1105	19.1121	28.6118	42.9548	15.4402	16.4935	19.2650	N.D.
總 DDT	39.2754	31.0527	45.0202	53.4181	40.4606	47.7985	71.5312	15.4402	16.4935	31.6540	N.D.
Aldrin	6.9932	9.0191	N.D.	7.8384	12.3099	N.D.	7.5101	N.D.	N.D.	N.D.	7.8239
Dieldrin	9.8840	N.D.	11.6325	9.4174	9.7381	8.8313	14.0429	N.D.	N.D.	N.D.	N.D.
Aldrin + Dieldrin	16.8771	9.0191	11.6325	17.2558	22.0480	8.8313	21.5530	N.D.	N.D.	N.D.	7.8239
Endosulfan I	10.3254	N.D.	9.2556	9.7723	9.6857	N.D.	13.8260	N.D.	N.D.	N.D.	N.D.
Endosulfan II	13.3787	16.4649	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	17.2379	N.D.	N.D.	N.D.	17.2867	N.D.	38.2343	N.D.	N.D.	17.2143	N.D.
Endrin	12.9602	18.0939	14.4657	14.3710	12.8673	11.9252	23.9894	11.8840	N.D.	12.3594	N.D.
Endrin aldehyde	11.8459	10.3444	14.3814	12.1210	12.2731	11.6014	33.3547	N.D.	N.D.	10.2222	N.D.
Endrin ketone	13.1210	17.4875	13.7541	13.9616	17.2621	13.7449	18.5084	N.D.	N.D.	13.1853	N.D.
Heptachlor	7.2759	N.D.	7.2489	N.D.	6.8364	N.D.	8.1822	N.D.	N.D.	N.D.	N.D.
Heptachlor epoxide	8.7841	N.D.	10.0315	8.4482	8.2382	N.D.	9.7943	N.D.	N.D.	N.D.	N.D.
Methoxychlor	17.1528	N.D.	16.6003	19.6101	22.1957	17.0546	24.7340	N.D.	N.D.	N.D.	N.D.

單位：ppb      N.D.：not detected

表 18 杜仲有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10	11
PCNB	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\alpha$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\beta$ -BHC	5.8990	3.9153	4.3848	5.5523	6.6028	5.4757	4.3524	5.4019	9.3630	9.3776	9.8956
$\gamma$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2.1715	2.1749	N.D.
$\delta$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
總 BHC	5.8990	3.9153	4.3848	5.5523	6.6028	5.4757	4.3524	5.4019	11.5344	11.5525	9.8956
4,4'-DDD	5.5688	6.0822	6.2831	9.9563	7.0918	5.6387	5.5951	7.2180	N.D.	N.D.	10.6070
4,4'-DDE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDT	6.5452	5.8345	5.5987	11.1317	8.0266	5.9872	5.7066	5.7527	7.6522	7.6641	9.2962
總 DDT	12.1140	11.9167	11.8819	21.0880	15.1184	11.6259	11.3017	12.9707	7.6522	7.6641	19.9032
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Aldrin + Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan I	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	9.0683
Endosulfan sulfate	22.3035	22.0834	22.9765	26.1082	24.4672	23.2327	21.9944	23.3335	29.1695	29.2151	34.5586
Endrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.5401	0.5409	N.D.
Endrin aldehyde	14.2397	13.9163	14.2996	14.0989	14.0988	14.0486	13.8521	13.8492	17.0362	17.0629	14.3083
Endrin ketone	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.5680	0.5689	N.D.
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	15.6020	15.0608	15.4404	15.2076	15.7438	15.5786	15.2871	15.1601	17.1358	17.1626	15.9807

單位：ppb      N.D.：not detected

表19 黃芩有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10	11
PCNB	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\alpha$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\beta$ -BHC	9.9971	5.2832	N.D.	4.5441	N.D.	4.5733	4.6642	4.5156	8.0394	5.2973	5.5686
$\gamma$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\delta$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
總 BHC	9.9971	5.2832	N.D.	4.5441	N.D.	4.5733	4.6642	4.5156	8.0394	5.2973	5.5686
4,4'-DDD	5.6345	5.4976	N.D.	N.D.	N.D.	5.6213	5.5653	5.6976	5.7847	5.6506	5.7688
4,4'-DDE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDT	5.7996	5.6847	N.D.	N.D.	N.D.	6.0222	6.1119	5.7886	5.8837	5.8813	5.8650
總 DDT	11.4340	11.1823	N.D.	N.D.	N.D.	11.6435	11.6772	11.4862	11.6684	11.5318	11.6337
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Aldrin + Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan I	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	22.9232	22.6827	N.D.	22.7795	N.D.	24.1613	22.4952	22.6752	22.8335	22.5187	22.7299
Endrin	0.3832	N.D.	N.D.	N.D.	N.D.	N.D.	0.0703	N.D.	N.D.	N.D.	N.D.
Endrin aldehyde	14.3560	14.7584	N.D.	16.8464	N.D.	14.7882	14.5418	14.9791	14.6779	14.5686	14.7098
Endrin ketone	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2.9607	N.D.	N.D.	N.D.
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	15.4580	15.3373	N.D.	16.0779	N.D.	15.5281	15.1541	15.2660	15.2323	15.4705	15.1841

單位：ppb      N.D.：not detected



表 20 葛根有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10	11
PCNB	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\alpha$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\beta$ -BHC	6.6610	5.2215	4.0782	6.7850	6.9398	4.2205	4.4392	6.2525	4.5958	11.5592	10.9759
$\gamma$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\delta$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
總 BHC	6.6610	5.2215	4.0782	6.7850	6.9398	4.2205	4.4392	6.2525	4.5958	11.5592	10.9759
4,4'-DDD	5.6138	N.D.	N.D.	5.7108	N.D.	5.6070	N.D.	N.D.	5.8579	N.D.	5.5784
4,4'-DDE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDT	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5.7607	N.D.	5.7972
總 DDT	5.6138	N.D.	N.D.	5.7108	N.D.	5.6070	N.D.	N.D.	11.6185	N.D.	11.3756
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Aldrin + Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan I	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	40.3140	22.7905	26.3947	23.3105	22.8467	22.9977	22.7393	N.D.	22.8459	93.3201	28.1247
Endrin	1.4060	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endrin aldehyde	15.5646	14.1487	14.4632	14.0947	14.3601	14.6249	14.0318	N.D.	14.5216	N.D.	14.3770
Endrin ketone	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	16.3388	15.3331	N.D.	15.1485	15.2140	15.3199	N.D.	N.D.	15.2901	N.D.	16.8450

單位：ppb      N.D.：not detected

表21 白芷有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10	11
PCNB	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\alpha$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\beta$ -BHC	7.4535	7.3254	5.6275	6.7159	N.D.	7.1340	10.4473	9.0640	8.9848	8.8337	7.8229
$\gamma$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\delta$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
總 BHC	7.4535	7.3254	5.6275	6.7159	N.D.	7.1340	10.4473	9.0640	8.9848	8.8337	7.8229
4,4'-DDD	18.1166	8.1879	8.7143	6.3898	N.D.	6.1286	N.D.	6.5319	6.9156	7.4923	6.2247
4,4'-DDE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDT	6.1451	8.4442	8.4621	7.3121	N.D.	7.9363	N.D.	7.0279	8.8062	8.6279	6.6291
總 DDT	24.2617	16.6321	17.1764	13.7019	N.D.	14.0649	N.D.	13.5598	15.7218	16.1202	12.8537
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Aldrin + Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan I	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	27.0194	22.6095	26.7027	38.9507	N.D.	22.7260	22.1230	29.2505	22.0924	24.1737	23.0185
Endrin	0.7396	N.D.	0.0728	0.3619	N.D.	N.D.	N.D.	0.3936	0.4801	N.D.	N.D.
Endrin aldehyde	13.7908	15.2915	15.9489	14.0880	N.D.	14.7257	16.1033	14.6463	16.0815	15.4321	16.0401
Endrin ketone	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.9759	N.D.	2.9397	0.0242	0.6921
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	16.3796	15.5126	16.1061	16.1780	N.D.	18.8725	16.7447	15.6967	16.1853	21.0918	15.3448

單位：ppb      N.D.：not detected

表22 丹參有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10	11
PCNB	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\alpha$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\beta$ -BHC	5.0257	4.8869	4.6940	4.5049	4.3558	5.2601	5.7377	5.6981	4.5622	4.1929	4.5245
$\gamma$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\delta$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
總 BHC	5.0257	4.8869	4.6940	4.5049	4.3558	5.2601	5.7377	5.6981	4.5622	4.1929	4.5245
4,4'-DDD	8.3214	7.1744	6.6457	5.7153	6.3126	6.0005	6.1943	6.3896	6.4302	6.5355	5.8179
4,4'-DDE	0.0589	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDT	13.7735	13.2821	10.9482	8.3737	11.5093	9.5831	7.9680	7.2112	9.0122	13.3175	7.9006
總 DDT	22.1538	20.4566	17.5939	14.0890	17.8219	15.5835	14.1623	13.6008	15.4424	19.8531	13.7186
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Aldrin + Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan I	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	89.5249	35.5686	36.3493	23.6981	42.9524	68.4183	25.5531	22.3727	22.8108	53.9102	23.0220
Endrin	2.0947	N.D.	N.D.	0.9361	1.4251	N.D.	0.3351	0.6595	N.D.	1.9765	0.8325
Endrin aldehyde	53.2147	35.2179	1.3173	18.9071	35.8171	53.0387	17.1439	14.4988	14.9627	54.1013	15.6033
Endrin ketone	6.6827	1.9693	43.2812	N.D.	2.5123	N.D.	N.D.	N.D.	N.D.	6.8778	N.D.
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	18.1733	16.6455	16.4177	15.2920	16.1688	15.1971	15.2389	15.1936	15.1202	17.3282	15.4109

單位：ppb      N.D.：not detected

表23 人參鬚輻射前後有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	1'	2'	3'	4'	5'
PCNB	698.9376	649.4240	268.3145	433.8373	308.5476	388.8732	409.9783	181.7626	609.5229	211.5043
α-BHC	5.1622	131.5771	15.9081	11.8151	209.7575	1.7433	50.8648	26.0443	3.1033	303.0419
β-BHC	88.6731	378.7370	53.6622	44.7799	330.2299	10.4245	23.1850	26.8760	66.6035	469.1482
γ-BHC	184.7519	414.4966	20.5904	59.5567	243.4327	N.D.	64.3087	7.9809	4.2096	347.2644
δ-BHC	78.1812	323.8737	64.8550	112.2600	412.4391	N.D.	31.6951	2.5946	59.6322	531.9384
總 BHC	356.7683	1248.6844	155.0157	228.4118	1195.8592	12.1678	170.0536	63.4958	133.5486	1651.3929
4,4'-DDD	17.4205	7.6782	N.D.	0.4421	0.3646	N.D.	1.1607	N.D.	0.9506	N.D.
4,4'-DDE	24.9988	20.9166	N.D.	13.0223	5.2908	N.D.	1.0371	N.D.	9.7969	2.1309
4,4'-DDT	24.1368	20.2837	N.D.	14.9385	N.D.	N.D.	16.1993	N.D.	13.4030	N.D.
總 DDT	66.5561	48.8785	N.D.	28.4029	5.6554	N.D.	18.3972	N.D.	24.1506	2.1309
Aldrin	454.4468	314.1763	131.1569	212.5299	158.7689	316.0165	168.5698	16.0615	7.2220	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Aldrin + Dieldrin	454.4468	314.1763	131.1569	212.5299	158.7689	316.0165	168.5698	16.0615	7.2220	N.D.
Endosulfan I	N.D.	N.D.	N.D.	9.4756	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	15.4223	12.4877	N.D.	12.7257	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endrin	27.4433	24.4888	2.2361	5.5314	5.5388	N.D.	6.6008	N.D.	3.3106	4.3386
Endrin aldehyde	20.0079	17.5345	N.D.	22.7823	16.2658	N.D.	16.8109	N.D.	N.D.	N.D.
Endrin ketone	0.8191	1.8205	1.8891	0.0903	0.7242	2.9503	10.3240	6.4212	12.5689	2.3037
Heptachlor	31.4819	40.4080	N.D.	7.3921	N.D.	N.D.	6.9483	N.D.	N.D.	N.D.
Heptachlor epoxide	7.6103	71.5641	N.D.	6.3328	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	44.1361	22.0216	21.6737	55.7658	24.1094	N.D.	24.6377	N.D.	N.D.	N.D.

單位：ppb      N.D.：not detected

表24 艾草有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10
PCNB	30.4218	209.6390	85.2792	42.3059	N.D.	0.4141	5521.9015	7525.7882	2288.6790	7.8335
$\alpha$ -BHC	2.8391	N.D.	N.D.	N.D.	N.D.	N.D.	310.3215	22.8535	140.7821	N.D.
$\beta$ -BHC	50.3587	55.4433	32.9686	33.0678	N.D.	23.4755	1441.2551	88.0386	297.0060	N.D.
$\gamma$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	419.9172	57.9404	216.1109	N.D.
$\delta$ -BHC	50.5264	134.7916	53.3929	22.9866	N.D.	42.0812	877.3476	359.4652	2315.4202	28.0446
總 BHC	103.7242	190.2348	86.3615	56.0544	N.D.	65.5567	3048.8414	528.2978	2969.3193	28.0446
4,4'-DDD	39.2671	78.5934	68.3083	17.9657	N.D.	36.7794	676.5061	623.2444	1543.2840	21.5115
4,4'-DDE	25.4846	52.1283	12.2978	13.4798	N.D.	6.1612	389.4082	354.3470	604.9124	5.8833
4,4'-DDT	40.0859	46.4224	30.0363	27.5472	N.D.	95.0000	3648.7227	3492.9598	2965.9838	39.6220
總 DDT	104.8376	177.1441	110.6424	58.9928	N.D.	137.9406	4714.6370	4470.5512	5114.1802	67.0168
Aldrin	1.5370	37.8746	N.D.	N.D.	N.D.	N.D.	1843.4925	39.6337	140.6922	N.D.
Dieldrin	9.9783	48.8110	N.D.	8.2502	N.D.	0.4706	577.2138	203.2529	1710.9301	N.D.
Aldrin + Dieldrin	11.5152	86.6856	N.D.	8.2502	N.D.	0.4706	2420.7063	242.8865	1851.6223	N.D.
Endosulfan I	2.5789	13.3003	N.D.	29.2127	N.D.	2.1569	770.9090	1301.2048	2267.9078	N.D.
Endosulfan II	24.1371	36.6052	14.7986	24.6320	N.D.	16.8814	1795.8510	2022.2162	1622.1285	11.4641
Endosulfan sulfate	47.7146	31.8036	35.6222	N.D.	N.D.	26.5064	5142.8699	178.3973	746.5003	25.0780
Endrin	28.9332	36.1379	32.9704	19.7997	N.D.	19.5555	2377.3257	131.4546	375.1981	19.0360
Endrin aldehyde	48.2060	41.7790	24.4912	17.9060	N.D.	12.1087	1042.0101	362.6744	714.6742	11.8926
Endrin ketone	10.5885	4.7495	5.0513	4.3912	N.D.	5.6546	89.8040	91.1387	65.6337	5.1364
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	530.2732	970.4249	679.6699	N.D.
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	453.4615	114.6480	450.5688	N.D.
Methoxychlor	24.9036	26.8143	115.2394	29.5792	N.D.	15.8018	3792.1517	1187.0007	2443.0820	18.4982

單位：ppb      N.D.：not detected

表25 筆仔草（金絲草）有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10
PCNB	5.6478	21.8639	5.6476	16.7477	N.D.	4.7980	N.D.	N.D.	N.D.	4.5555
$\alpha$ -BHC	9.9476	67.0188	9.9472	8.3326	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\beta$ -BHC	29.8971	49.3900	29.8961	62.3750	21.1247	29.5376	21.1850	21.1405	N.D.	N.D.
$\gamma$ -BHC	10.4410	53.4390	10.4407	4.9459	N.D.	4.7306	N.D.	N.D.	6.3897	14.5426
$\delta$ -BHC	26.2375	104.1846	26.2366	181.3865	15.7681	35.2724	16.0690	15.6983	N.D.	N.D.
總 BHC	76.5232	274.0325	76.5206	257.0400	36.8928	69.5405	37.2540	36.8388	6.3897	14.5426
4,4'-DDD	44.4578	N.D.	44.4564	N.D.	N.D.	31.0283	15.5753	N.D.	N.D.	N.D.
4,4'-DDE	24.4459	N.D.	24.4451	13.8626	1.3370	32.3340	1.5066	N.D.	N.D.	15.1518
4,4'-DDT	53.8434	N.D.	53.8416	N.D.	N.D.	37.5666	26.7245	1.3899	N.D.	N.D.
總 DDT	122.7471	N.D.	122.7430	13.8626	1.3370	100.9289	43.8064	1.3899	N.D.	15.1518
Aldrin	77.7715	1195.1610	77.7689	167.6894	N.D.	73.5725	N.D.	N.D.	8.5656	N.D.
Dieldrin	N.D.	N.D.	N.D.	3.6795	N.D.	0.2646	N.D.	N.D.	N.D.	2.8141
Aldrin + Dieldrin	77.7715	1195.1610	77.7689	171.3689	N.D.	73.8370	N.D.	N.D.	8.5656	2.8141
Endosulfan I	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	N.D.	N.D.	N.D.	15.9660	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endrin	34.1682	N.D.	34.1670	N.D.	N.D.	37.4421	18.5053	N.D.	N.D.	28.9770
Endrin aldehyde	N.D.	N.D.	N.D.	N.D.	5.5315	N.D.	N.D.	N.D.	N.D.	N.D.
Endrin ketone	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	31.2744
Heptachlor	454.9251	24.6821	454.9100	34.4927	N.D.	3.8898	N.D.	N.D.	N.D.	N.D.
Heptachlor epoxide	N.D.	N.D.	N.D.	12.3362	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

單位：ppb      N.D.：not detected

表26 白花馬齒莧有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10
PCNB	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\alpha$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\beta$ -BHC	N.D.	21.6097	21.3913	21.0376	21.5293	21.2940	25.2805	22.7161	21.2341	21.3675
$\gamma$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\delta$ -BHC	15.8900	17.1428	15.9477	15.7788	15.8753	16.1678	18.0639	21.4250	16.9196	16.6317
總 BHC	15.8900	38.7525	37.3390	36.8164	37.4046	37.4618	43.3444	44.1411	38.1538	37.9992
4,4'-DDD	N.D.	15.5681	N.D.	N.D.	N.D.	N.D.	24.2336	23.2255	N.D.	N.D.
4,4'-DDE	N.D.	9.1637	1.2700	1.1958	N.D.	1.6403	N.D.	14.6012	1.7327	1.2185
4,4'-DDT	N.D.	N.D.	N.D.	N.D.	N.D.	31.3367	29.2221	33.2768	27.8341	27.4135
總 DDT	N.D.	24.7318	1.2700	1.1958	N.D.	32.9771	53.4557	71.1034	29.5667	28.6320
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1489.1351	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Aldrin + Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1489.1351	N.D.	N.D.
Endosulfan I	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	8.2348	11.5713	6.2613	11.3690
Endosulfan sulfate	N.D.	N.D.	N.D.	N.D.	N.D.	59.0199	30.2751	27.6464	25.3609	N.D.
Endrin	N.D.	N.D.	18.5057	N.D.	N.D.	18.5958	20.0728	24.3362	18.6059	18.4841
Endrin aldehyde	N.D.	N.D.	5.2164	N.D.	N.D.	6.2161	7.0702	15.5036	6.1514	68.3287
Endrin ketone	6.3604	4.6112	6.7062	N.D.	4.5047	N.D.	4.5372	6.9725	5.7127	7.9997
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	11.5731	N.D.
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	18.9550	17.1503	27.0207	17.9091

單位：ppb N.D.：not detected

表27 紅田烏 (蓮子草) 有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10
PCNB	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
α-BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
β-BHC	21.2999	N.D.	21.2481	21.3180	21.1132	21.7380	21.1041	21.6622	22.9721	21.3164
γ-BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
δ-BHC	16.3821	16.7655	16.4734	16.2102	15.7238	17.3885	16.1506	16.4177	17.9290	16.4378
總 BHC	37.6820	16.7655	37.7215	37.5282	36.8370	39.1264	37.2546	38.0799	40.9011	37.7542
4,4'-DDD	15.5757	17.0388	N.D.	N.D.	N.D.	20.4946	N.D.	15.6048	25.1018	N.D.
4,4'-DDE	1.5333	2.3543	2.0683	1.9314	N.D.	3.0921	1.2302	1.2455	3.2858	1.7828
4,4'-DDT	26.9310	26.8623	N.D.	N.D.	N.D.	33.4938	N.D.	26.7691	31.9806	N.D.
總 DDT	44.0400	46.2554	2.0683	1.9314	N.D.	57.0805	1.2302	43.6194	60.3683	1.7828
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Aldrin + Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan I	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	6.2867	N.D.	8.6516	6.8988	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	25.6766	N.D.	23.6536	N.D.	N.D.	N.D.	N.D.	N.D.	26.6631	N.D.
Endrin	18.8324	18.7408	19.3215	18.6933	N.D.	20.1948	18.5978	19.0463	22.6429	18.5941
Endrin aldehyde	6.5672	4.9366	8.7654	8.2865	N.D.	N.D.	N.D.	55.2670	6.6846	N.D.
Endrin ketone	N.D.	N.D.	5.0622	N.D.	N.D.	5.8310	N.D.	N.D.	N.D.	N.D.
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	14.7997	N.D.	15.1794	N.D.	N.D.	N.D.	N.D.	N.D.	22.3431	N.D.

單位：ppb      N.D.：not detected



表 28 虎杖有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10
PCNB	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\alpha$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\beta$ -BHC	N.D.	21.0787	21.1670	21.2850	21.3219	21.1190	21.1806	21.2005	21.1330	21.5053
$\gamma$ -BHC	N.D.	N.D.	20.9371	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\delta$ -BHC	15.7738	16.0173	15.6502	15.9456	N.D.	15.9833	15.6065	16.0853	15.9920	15.7209
總 BHC	15.7738	37.0960	57.7543	37.2306	21.3219	37.1024	36.7871	37.2858	37.1250	37.2262
4,4'-DDD	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	15.5494
4,4'-DDE	N.D.	N.D.	N.D.	1.2138	N.D.	1.2221	N.D.	N.D.	1.2195	1.5046
4,4'-DDT	N.D.	N.D.	N.D.	27.0072	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
總 DDT	N.D.	N.D.	N.D.	28.2210	N.D.	1.2221	N.D.	N.D.	1.2195	17.0540
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Aldrin + Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan I	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endrin	19.6674	N.D.	N.D.	18.5117	18.5995	N.D.	N.D.	N.D.	18.5443	19.0466
Endrin aldehyde	17.1216	6.9189	N.D.	4.9192	7.5613	7.3799	4.5994	4.7332	13.6498	N.D.
Endrin ketone	N.D.	N.D.	N.D.	N.D.	N.D.	4.8088	N.D.	N.D.	4.7882	4.7449
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

單位：ppb      N.D.：not detected

表 29 絞股藍(莖)有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5
PCNB	N.D.	N.D.	N.D.	N.D.	N.D.
$\alpha$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.
$\beta$ -BHC	23.9195	21.0997	21.1203	21.9032	21.1066
$\gamma$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.
$\delta$ -BHC	15.8855	15.7842	16.1220	17.3158	16.2277
總 BHC	39.8050	36.8839	37.2423	39.2190	37.3343
4,4'-DDD	15.8061	N.D.	N.D.	17.6930	N.D.
4,4'-DDE	4.6744	1.6562	2.6341	1.6560	1.4400
4,4'-DDT	27.1596	N.D.	26.5381	N.D.	N.D.
總 DDT	47.6402	1.6562	29.1722	19.3490	1.4400
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.
Aldrin + Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan I	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	N.D.	N.D.	N.D.	N.D.	N.D.
Endrin	20.0702	18.7540	19.5130	19.3693	N.D.
Endrin aldehyde	N.D.	N.D.	N.D.	4.7334	6.2244
Endrin ketone	6.5516	5.1390	5.6513	4.5537	5.4729
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	N.D.	N.D.	N.D.	N.D.	N.D.

單位：ppb

N.D.：not detected

表30 絞股藍(葉)有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10
PCNB	4.5305	N.D.	11.3684	N.D.	N.D.	N.D.	N.D.	N.D.	1.6181	N.D.
$\alpha$ -BHC	N.D.	N.D.	5.7559	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\beta$ -BHC	34.4943	21.0503	24.4185	35.2260	21.6384	21.7383	24.3464	21.1459	28.2272	23.2180
$\gamma$ -BHC	N.D.	N.D.	3.0768	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\delta$ -BHC	65.0355	20.8879	11.4150	45.3416	26.0016	16.1254	25.6643	19.6900	93.9287	19.7763
總 BHC	99.5298	41.9382	44.6662	80.5676	47.6401	37.8636	50.0107	40.8359	122.1559	42.9943
4,4'-DDD	18.3715	N.D.	187.2012	39.7365	69.2980	16.8356	25.6451	16.0288	251.1872	69.9421
4,4'-DDE	15.3977	1.5714	43.9941	11.0398	3.4672	5.2394	6.4309	1.6516	29.8988	10.8314
4,4'-DDT	32.5324	N.D.	24.1162	32.3520	34.7937	27.7846	35.8338	26.9180	N.D.	34.7854
總 DDT	66.3016	1.5714	255.3115	83.1282	107.5589	49.8597	67.9098	44.5983	281.0859	115.5589
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	0.6366	N.D.	N.D.	0.4821	N.D.	N.D.	5.7520	N.D.	0.3078	3.0907
Aldrin + Dieldrin	0.6366	N.D.	N.D.	0.4821	N.D.	N.D.	5.7520	N.D.	0.3078	3.0907
Endosulfan I	5.1132	N.D.	14.2815	N.D.	N.D.	N.D.	N.D.	N.D.	2.1108	N.D.
Endosulfan II	12.7262	6.2259	7.1786	13.3779	N.D.	9.0335	9.0053	N.D.	33.6646	19.9417
Endosulfan sulfate	29.2737	N.D.	36.8398	28.1003	N.D.	23.7634	31.8966	N.D.	71.3722	28.5416
Endrin	20.1622	18.5446	21.1028	28.0671	18.9548	18.9910	22.6763	18.5458	52.3339	51.2066
Endrin aldehyde	5.9528	4.4239	20.2157	14.7558	5.4510	7.3709	15.7429	6.2964	163.2986	37.9460
Endrin ketone	4.3682	4.8449	22.3901	6.6443	5.7805	4.5619	4.8699	5.3445	25.2436	7.2790
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor epoxide	N.D.	N.D.	2.6065	N.D.	N.D.	N.D.	N.D.	N.D.	1.5635	N.D.
Methoxychlor	37.2228	14.2218	103.9228	87.0840	19.5051	16.7455	58.1718	N.D.	506.6933	80.7027

單位：ppb      N.D.：not detected

表31 煮飯花頭有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10
PCNB	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\alpha$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\beta$ -BHC	23.0927	21.3481	N.D.	21.0506	21.0886	21.0565	21.0789	N.D.	21.2451	24.1135
$\gamma$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\delta$ -BHC	19.4801	18.3123	15.5489	16.0231	15.6149	15.5891	15.7035	15.6691	15.6804	18.9929
總 BHC	42.5728	39.6604	15.5489	37.0737	36.7035	36.6456	36.7824	15.6691	36.9255	43.1065
4,4'-DDD	20.9809	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDE	4.6233	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1.4031
4,4'-DDT	31.3386	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
總 DDT	56.9428	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1.4031
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Aldrin + Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan I	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	11.2921	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endrin	28.6899	18.9402	N.D.	18.7937	N.D.	N.D.	N.D.	N.D.	19.1307	18.7457
Endrin aldehyde	4.9827	N.D.	N.D.	8.1015	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endrin ketone	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

單位：ppb      N.D.：not detected

表32 五爪金英有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10
PCNB	N.D.	29.8784	N.D.	N.D.	N.D.	N.D.	1.8694	N.D.	N.D.	N.D.
$\alpha$ -BHC	N.D.	14.2691	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\beta$ -BHC	22.2085	73.9234	21.8998	21.1937	21.4861	21.3838	26.3068	21.2262	21.5042	21.2974
$\gamma$ -BHC	N.D.	61.5955	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\delta$ -BHC	16.2604	177.3765	17.4224	15.8932	17.0779	16.0322	28.7586	16.1048	16.3445	16.2921
總 BHC	38.4689	327.1644	39.3222	37.0869	38.5640	37.4161	55.0653	37.3309	37.8487	37.5895
4,4'-DDD	33.2107	87.3474	15.5012	N.D.	15.8969	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDE	N.D.	11.0523	1.9319	1.2022	1.7444	1.3256	6.6239	1.2528	1.4510	1.4250
4,4'-DDT	32.7625	45.7171	26.5226	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
總 DDT	65.9731	144.1169	43.9557	1.2022	17.6413	1.3256	6.6239	1.2528	1.4510	1.4250
Aldrin	N.D.	24.3406	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	22.9552	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Aldrin + Dieldrin	N.D.	47.2958	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan I	N.D.	4.8850	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	10.2185	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	40.3785	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endrin	18.5858	31.3702	18.4544	N.D.	18.5701	18.6459	N.D.	18.4547	18.5189	18.5224
Endrin aldehyde	11.0612	121.4046	N.D.	N.D.	N.D.	N.D.	N.D.	5.1140	N.D.	4.7399
Endrin ketone	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor	N.D.	20.3998	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor epoxide	N.D.	15.0896	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	49.9290	270.0977	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

單位：ppb      N.D.：not detected

表33 山葡萄有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10
PCNB	N.D.	N.D.	8.3821	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\alpha$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\beta$ -BHC	21.1286	21.0776	29.1033	21.1014	N.D.	N.D.	N.D.	21.0631	21.0239	21.1261
$\gamma$ -BHC	N.D.	N.D.	6.1818	N.D.	4.7061	N.D.	N.D.	N.D.	N.D.	N.D.
$\delta$ -BHC	16.3474	23.9401	28.2714	15.6626	24.1556	11.9243	15.6586	15.5712	16.0398	15.6630
總 BHC	37.4759	45.0177	63.5565	36.7640	28.8617	11.9243	15.6586	36.6343	37.0637	36.7891
4,4'-DDD	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDE	1.8353	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1.2706
4,4'-DDT	27.3920	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	26.5965	N.D.
總 DDT	29.2273	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	26.5965	1.2706
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Aldrin + Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan I	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endrin	18.5657	18.4812	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	18.5434	18.5257
Endrin aldehyde	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	18.4890	N.D.	N.D.
Endrin ketone	N.D.	4.6511	N.D.	N.D.	24.9577	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

單位：ppb      N.D.：not detected

表34 洛神花有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10
PCNB	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\alpha$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\beta$ -BHC	25.5841	21.0557	21.8289	21.2113	21.1514	21.2289	21.0939	21.1700	21.1093	21.1643
$\gamma$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\delta$ -BHC	17.0385	18.3071	16.1215	18.6191	17.4423	19.0925	15.8586	18.8214	17.8949	17.0813
總 BHC	42.6226	39.3628	37.9504	39.8305	38.5937	40.3214	36.9526	39.9914	39.0042	38.2456
4,4'-DDD	15.6359	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDE	1.8243	1.8240	N.D.	1.4495	N.D.	N.D.	N.D.	1.3584	1.2091	N.D.
4,4'-DDT	31.8834	N.D.	N.D.	N.D.	N.D.	N.D.	27.2001	N.D.	N.D.	26.5265
總 DDT	49.3436	1.8240	N.D.	1.4495	N.D.	N.D.	27.2001	1.3584	1.2091	26.5265
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Aldrin + Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan I	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.	6.4399	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	25.4918	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endrin	19.3750	19.1917	18.5040	18.9154	19.2314	18.5408	18.5140	N.D.	18.6364	19.0384
Endrin aldehyde	4.9641	4.5938	N.D.	4.7075	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endrin ketone	N.D.	N.D.	N.D.	N.D.	N.D.	4.4522	5.4581	5.8574	8.2287	8.5622
Heptachlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	22.9360	14.5570	N.D.	15.1244	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

單位：ppb      N.D.：not detected

表35 貝母有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6-1	6-2	7	8	9	10	11	12	13
PCNB	24.0714	N.D.	N.D.	N.D.	N.D.	N.D.	25.4717	N.D.	N.D.	33.6173	N.D.	N.D.	N.D.	N.D.
α-BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	18.7711	N.D.	N.D.	N.D.	N.D.
β-BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	28.3848	N.D.	N.D.	N.D.	N.D.
γ-BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	13.2505	N.D.	N.D.	22.2809	N.D.	N.D.	N.D.	N.D.
δ-BHC	8.7349	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	15.5112	N.D.	N.D.	N.D.	N.D.
<b>總 BHC</b>	<b>8.7349</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>13.2505</b>	<b>N.D.</b>	<b>N.D.</b>	<b>84.9480</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
4,4'-DDD	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	34.0213	N.D.	N.D.	N.D.	N.D.
4,4'-DDE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	13.1340	N.D.	N.D.	N.D.	N.D.
4,4'-DDT	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	17.7324	N.D.	N.D.	21.1528	N.D.	N.D.	N.D.	N.D.
<b>總 DDT</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>17.7324</b>	<b>N.D.</b>	<b>N.D.</b>	<b>68.3080</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Aldrin	6.6111	N.D.	N.D.	N.D.	5.7186	N.D.	7.2708	N.D.	N.D.	8.2035	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	4.6117	N.D.	N.D.	N.D.	N.D.
<b>Aldrin + Dieldrin</b>	<b>6.6111</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>5.7186</b>	<b>N.D.</b>	<b>7.2708</b>	<b>N.D.</b>	<b>N.D.</b>	<b>12.8153</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Endosulfan I	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	14.5460	N.D.	N.D.	N.D.	N.D.
Endosulfan II	14.1487	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	43.9394	N.D.	N.D.	N.D.	N.D.
<b>Endrin</b>	<b>8.4189</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>10.8289</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Endrin aldehyde	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	11.6815	N.D.	N.D.	26.8552	N.D.	19.6905	N.D.	N.D.
Endrin ketone	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	27.4990	N.D.	N.D.	N.D.	N.D.
<b>Heptachlor</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>19.0346</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	8.9361	N.D.	N.D.	N.D.	N.D.
Methoxychlor	48.5774	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	61.2452	N.D.	N.D.	N.D.	N.D.

單位：ppb 註：6-1，6-2 表第 6 號廠商提供 2 種貝母樣品 N.D.：not detected



表36 延胡索有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10	11	12
PCNB	N.D.	N.D.	N.D.	N.D.	N.D.	23.5740	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\alpha$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	15.4621	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\beta$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	24.7317	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\gamma$ -BHC	N.D.	N.D.	N.D.	N.D.	N.D.	14.0211	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
$\delta$ -BHC	N.D.	N.D.	4.3379	N.D.	N.D.	8.9137	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>總 BHC</b>	<b>N.D.</b>	<b>N.D.</b>	<b>4.3379</b>	<b>N.D.</b>	<b>N.D.</b>	<b>63.1286</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
4,4'-DDD	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDE	N.D.	N.D.	N.D.	N.D.	N.D.	4.8676	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDT	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>總 DDT</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>4.8676</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Aldrin	N.D.	N.D.	4.4558	N.D.	N.D.	6.9457	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>Aldrin + Dieldrin</b>	<b>N.D.</b>	<b>N.D.</b>	<b>4.4558</b>	<b>N.D.</b>	<b>N.D.</b>	<b>6.9457</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Endosulfan I	N.D.	N.D.	N.D.	N.D.	N.D.	4.8942	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>Endrin</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Endrin aldehyde	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endrin ketone	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>Heptachlor</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>17.9895</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	2.5822	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

單位：ppb      N.D.：not detected

表37 金銀花有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10	11	12
PCNB	25.5164	22.9002	23.0862	N.D.	23.9981	23.4086	23.7850	24.5866	28.5148	23.5154	N.D.	23.1238
α-BHC	14.4710	14.1632	14.2273	N.D.	14.3325	14.1007	14.3968	14.0745	16.1348	16.0175	N.D.	15.2659
β-BHC	20.3292	38.9065	20.9277	N.D.	25.5906	19.2540	23.0785	25.1121	33.8110	42.8793	21.2751	18.2963
γ-BHC	12.9274	14.2592	13.8826	N.D.	12.5100	N.D.	N.D.	N.D.	N.D.	14.1768	N.D.	N.D.
δ-BHC	13.9660	8.6409	43.7330	N.D.	150.9045	15.1622	9.0152	63.5072	106.6266	10.4940	139.4540	5.4481
<b>總 BHC</b>	<b>61.6936</b>	<b>75.9699</b>	<b>92.7705</b>	<b>N.D.</b>	<b>203.3376</b>	<b>48.5170</b>	<b>46.4905</b>	<b>102.6938</b>	<b>156.5724</b>	<b>83.5676</b>	<b>160.7292</b>	<b>39.0104</b>
4,4'-DDD	17.3828	12.2826	16.4045	N.D.	23.3657	18.5169	13.0726	17.5216	27.5681	13.1514	N.D.	16.1032
4,4'-DDE	8.5904	9.8813	9.4066	N.D.	49.8890	7.2458	11.5463	12.3667	50.1080	7.1335	16.0514	7.7238
4,4'-DDT	15.5804	13.5892	14.4554	N.D.	32.2024	16.5790	19.0929	19.9325	96.7903	17.6981	16.8280	21.9224
<b>總 DDT</b>	<b>41.5536</b>	<b>35.7530</b>	<b>40.2664</b>	<b>N.D.</b>	<b>105.4570</b>	<b>42.3417</b>	<b>43.7118</b>	<b>49.8208</b>	<b>174.4664</b>	<b>37.9831</b>	<b>32.8794</b>	<b>45.7494</b>
Aldrin	4.9900	6.5537	5.6360	N.D.	13.3795	4.4394	7.1705	8.5977	10.3597	4.9627	16.9709	9.1863
Dieldrin	N.D.	N.D.	N.D.	N.D.	1.9821	5.4763	N.D.	N.D.	3.8129	N.D.	N.D.	N.D.
<b>Aldrin + Dieldrin</b>	<b>4.9900</b>	<b>6.5537</b>	<b>5.6360</b>	<b>N.D.</b>	<b>15.3616</b>	<b>9.9157</b>	<b>7.1705</b>	<b>8.5977</b>	<b>14.1726</b>	<b>4.9627</b>	<b>16.9709</b>	<b>9.1863</b>
Endosulfan I	6.3984	5.8459	6.7121	N.D.	11.8893	5.5022	4.2612	8.8291	9.2140	7.8445	5.3852	4.7235
Endosulfan II	11.7370	12.9287	13.5157	N.D.	25.5571	13.8998	10.9231	N.D.	N.D.	14.9640	N.D.	N.D.
Endosulfan sulfate	32.5013	112.0269	37.0463	N.D.	42.1184	49.2086	39.7734	76.0579	167.6170	35.8665	34.7977	33.5094
<b>Endrin</b>	<b>4.5819</b>	<b>9.8064</b>	<b>13.8210</b>	<b>N.D.</b>	<b>22.4341</b>	<b>10.3216</b>	<b>13.9767</b>	<b>14.2165</b>	<b>25.8576</b>	<b>N.D.</b>	<b>7.7590</b>	<b>4.4216</b>
Endrin aldehyde	20.4673	38.5465	27.1529	N.D.	24.0123	26.1933	16.5752	19.7519	82.0667	20.2814	22.9452	10.2553
Endrin ketone	21.1582	23.7478	20.2833	N.D.	25.2527	22.9335	23.2710	21.1818	25.5832	26.3698	26.1236	10.2553
<b>Heptachlor</b>	<b>53.5271</b>	<b>23.5080</b>	<b>13.0831</b>	<b>N.D.</b>	<b>49.7552</b>	<b>26.1724</b>	<b>34.0874</b>	<b>37.2091</b>	<b>55.4034</b>	<b>13.5372</b>	<b>26.6561</b>	<b>12.9829</b>
Heptachlor epoxide	3.9539	3.6275	4.9481	N.D.	5.3193	2.7120	3.4063	2.4852	6.3945	3.9025	3.6649	1.5105
Methoxychlor	67.2840	183.7486	52.2791	N.D.	132.0524	79.6218	163.1093	261.2004	420.3065	120.7823	137.4199	85.5262

單位：ppb N.D.：not detected

表38 香附有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10	11	12	13
PCNB	77.9522	89.3746	132.2712	27.0815	34.4347	38.1361	36.8592	66.1544	139.6633	120.6171	24.5407	50.2429	59.2112
α-BHC	33.4831	20.8075	18.9731	17.1197	56.7924	16.0351	36.2413	48.5203	47.8795	53.8801	45.3731	29.8494	165.4343
β-BHC	381.5367	1208.7760	1726.8543	588.0446	1884.6417	1118.3721	149.9649	1297.6777	1648.5733	613.0526	960.2149	1981.7885	214.7308
γ-BHC	46.8531	<b>912.3202</b>	<b>1482.5323</b>	423.6786	<b>1413.6054</b>	<b>731.6812</b>	288.5597	<b>978.3980</b>	<b>1555.5734</b>	<b>1768.9438</b>	<b>797.4712</b>	<b>1171.6295</b>	350.9137
δ-BHC	61.0345	34.9654	60.7661	22.4095	145.8964	58.1364	126.2543	31.2538	237.6285	799.6902	56.0930	101.4904	232.4482
α+β+δ-BHC	<b>476.0542</b>	<b>1264.5488</b>	<b>1806.5935</b>	<b>627.5738</b>	<b>2087.3305</b>	<b>1192.5437</b>	<b>312.4605</b>	<b>1377.4518</b>	<b>1934.0813</b>	<b>1466.6229</b>	<b>1061.6810</b>	<b>2113.1283</b>	<b>612.6134</b>
<b>總 BHC</b>	<b>522.9074</b>	<b>2176.8691</b>	<b>3289.1258</b>	<b>1051.2524</b>	<b>3500.9359</b>	<b>1924.2248</b>	<b>601.0202</b>	<b>2355.8497</b>	<b>3489.6547</b>	<b>3235.5667</b>	<b>1859.1521</b>	<b>3284.7578</b>	<b>963.5271</b>
4,4'-DDD	11.5308	22.1860	33.9320	12.2153	15.9898	N.D.	24.2657	N.D.	27.8744	41.8861	20.4419	N.D.	37.8775
4,4'-DDE	94.4878	16.9769	55.6135	20.9368	244.1885	37.2434	61.7968	24.5624	259.8498	262.4895	68.0431	24.3740	92.9415
4,4'-DDT	14.3067	17.3137	20.2236	14.1183	28.8890	20.0405	18.5054	19.9211	27.3595	34.4854	21.6934	28.0922	22.1307
<b>總 DDT</b>	<b>120.3253</b>	<b>56.4765</b>	<b>109.7690</b>	<b>47.2704</b>	<b>289.0673</b>	<b>57.2839</b>	<b>104.5679</b>	<b>44.4834</b>	<b>315.0837</b>	<b>338.8611</b>	<b>110.1785</b>	<b>52.4662</b>	<b>152.9497</b>
Aldrin	88.7520	29.6681	41.9161	18.1539	123.2717	9.6889	57.1315	87.3632	128.9389	102.1469	32.5655	66.0493	114.4630
Dieldrin	7.3454	4.0435	12.6986	0.9449	19.0665	N.D.	9.6076	N.D.	24.1255	70.6839	5.4202	5.5559	7.7741
<b>Aldrin + Dieldrin</b>	<b>96.0974</b>	<b>33.7116</b>	<b>54.6147</b>	<b>19.0988</b>	<b>142.3382</b>	<b>9.6889</b>	<b>66.7391</b>	<b>87.3632</b>	<b>153.0644</b>	<b>172.8308</b>	<b>37.9858</b>	<b>71.6052</b>	<b>122.2372</b>
Endosulfan I	69.8469	22.0177	66.5770	20.6757	149.2983	7.9735	50.8615	7.9641	48.2773	67.1533	35.1792	14.8876	91.7427
Endosulfan II	17.7187	13.7155	21.8397	11.6658	24.8628	N.D.	13.7317	N.D.	35.2264	53.5279	16.0086	15.9789	22.3171
Endosulfan sulfate	31.4165	40.7287	39.7885	30.5690	43.2615	75.6445	29.6074	103.4382	53.6363	84.2506	42.8514	60.1006	32.8582
<b>Endrin</b>	<b>136.2776</b>	<b>48.2592</b>	<b>177.4229</b>	<b>50.5641</b>	<b>374.9811</b>	<b>42.9416</b>	<b>193.5363</b>	<b>50.1580</b>	<b>475.0580</b>	<b>789.6397</b>	<b>61.6174</b>	<b>121.6585</b>	<b>202.6193</b>
Endrin aldehyde	7.6083	18.9068	12.3640	7.1541	11.9757	N.D.	7.4467	25.0474	13.3865	17.3146	12.2252	17.2379	11.7461
Endrin ketone	21.5978	26.8022	26.8557	21.3137	29.3202	26.9776	20.2619	31.2095	26.8318	26.3479	24.7078	26.5877	25.3098
<b>Heptachlor</b>	<b>72.9515</b>	<b>58.8757</b>	<b>92.4116</b>	<b>63.5822</b>	<b>275.4702</b>	<b>21.5652</b>	<b>118.5363</b>	<b>16.6686</b>	<b>229.8192</b>	<b>226.6363</b>	<b>169.2471</b>	<b>26.3940</b>	<b>106.9734</b>
Heptachlor epoxide	52.6112	9.9672	55.9933	14.7821	17.1547	47.0372	16.1818	22.2800	3.3307	97.2381	6.4482	11.2586	42.0729
Methoxychlor	43.7131	46.5488	103.2100	36.0372	114.7745	46.0735	41.8985	89.1547	91.4892	127.6062	96.8954	111.7801	51.4531

單位：ppb N.D.：not detected

表39 黨參有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10	11	12	13
PCNB	23.5242	N.D.	N.D.	22.9706	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
α-BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
β-BHC	20.0968	20.6749	N.D.	22.6144	22.8560	21.5123	N.D.	N.D.	N.D.	N.D.	N.D.	18.8992	19.3152
γ-BHC	N.D.	N.D.	N.D.	N.D.	N.D.	12.6305	N.D.	N.D.	N.D.	13.3764	N.D.	12.1198	12.1169
δ-BHC	5.8789	N.D.	19.3395	5.4311	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5.9406	5.6489
<b>總 BHC</b>	<b>25.9757</b>	<b>20.6749</b>	<b>19.3395</b>	<b>28.0455</b>	<b>22.8560</b>	<b>34.1428</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>13.3764</b>	<b>N.D.</b>	<b>36.9596</b>	<b>37.0810</b>
4,4'-DDD	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	12.2281	11.9236
4,4'-DDE	3.7980	3.5419	N.D.	4.4497	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	3.8468
4,4'-DDT	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	17.9440	N.D.	N.D.	N.D.	13.9756	13.3823
<b>總 DDT</b>	<b>3.7980</b>	<b>3.5419</b>	<b>N.D.</b>	<b>4.4497</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>17.9440</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>26.2037</b>	<b>29.1526</b>
Aldrin	N.D.	4.0921	N.D.	4.0351	N.D.	7.2937	N.D.	5.9123	N.D.	4.9490	5.2129	5.0829	4.9267
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>Aldrin + Dieldrin</b>	<b>N.D.</b>	<b>4.0921</b>	<b>N.D.</b>	<b>4.0351</b>	<b>N.D.</b>	<b>7.2937</b>	<b>N.D.</b>	<b>5.9123</b>	<b>N.D.</b>	<b>4.9490</b>	<b>5.2129</b>	<b>5.0829</b>	<b>4.9267</b>
Endosulfan I	5.4134	7.7651	4.5795	14.7620	7.8699	5.7625	N.D.	N.D.	5.4315	N.D.	N.D.	N.D.	5.1827
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10.5179
Endosulfan sulfate	N.D.	30.9929	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	33.3362	N.D.	31.7052
<b>Endrin</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>4.3275</b>	<b>4.6251</b>
Endrin aldehyde	N.D.	8.0239	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	6.4733
Endrin ketone	N.D.	20.6996	N.D.	N.D.	N.D.	22.1610	N.D.	23.2088	N.D.	22.5001	24.7999	N.D.	20.8125
<b>Heptachlor</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>13.7338</b>	<b>N.D.</b>	<b>13.7952</b>	<b>2.3372</b>	<b>N.D.</b>	<b>N.D.</b>	<b>13.2184</b>	<b>12.7813</b>
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	2.2418	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2.1075
Methoxychlor	37.2776	22.9268	N.D.	37.8331	N.D.	35.6417	N.D.	N.D.	N.D.	N.D.	30.2189	N.D.	35.7669

單位：ppb      N.D.：not detected

表40 川芎有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10	11	12
PCNB	N.D.	23.2591	N.D.	N.D.	28.4394	23.8140	41.8108	23.4292	22.9972	23.0586	23.8215	28.1977
α-BHC	33.2970	39.6139	20.5122	19.4977	47.0283	36.3757	49.3683	43.1186	77.6480	51.4093	24.4258	43.8013
β-BHC	36.2290	19.8555	17.3730	16.9535	24.2268	20.2466	17.1085	17.3086	19.3302	17.9472	16.7343	25.8338
γ-BHC	75.8201	12.6060	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	22.9972	N.D.	N.D.	14.7922
δ-BHC	11.5744	10.1253	5.8539	5.1686	12.2364	11.0467	9.9077	6.1371	8.5471	6.6795	5.0613	12.2466
<b>總 BHC</b>	<b>156.9204</b>	<b>82.2006</b>	<b>43.7390</b>	<b>41.6197</b>	<b>83.4914</b>	<b>67.6690</b>	<b>76.3845</b>	<b>66.5643</b>	<b>128.5225</b>	<b>76.0360</b>	<b>46.2213</b>	<b>96.6739</b>
4,4'-DDD	20.3627	23.4278	14.5868	12.4724	23.7270	42.6617	18.3663	25.0373	48.3020	12.6237	12.4743	24.9029
4,4'-DDE	4.3674	2.7408	2.3968	2.3102	4.0761	6.7133	2.7899	3.7928	7.2235	3.1257	2.6021	3.3076
4,4'-DDT	24.4569	17.1795	12.4524	12.1807	14.5440	17.7339	14.9075	14.8490	20.3222	14.1697	12.2966	22.8637
<b>總 DDT</b>	<b>49.1871</b>	<b>43.3480</b>	<b>29.4360</b>	<b>26.9633</b>	<b>42.3471</b>	<b>67.1089</b>	<b>36.0636</b>	<b>43.6791</b>	<b>75.8477</b>	<b>29.9190</b>	<b>27.3730</b>	<b>51.0742</b>
Aldrin	15.1501	37.3374	3.6967	10.4849	49.0139	60.2886	3.6694	26.2858	56.1887	3.7423	9.9049	13.0084
Dieldrin	1.9383	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>Aldrin + Dieldrin</b>	<b>17.0884</b>	<b>37.3374</b>	<b>3.6967</b>	<b>10.4849</b>	<b>49.0139</b>	<b>60.2886</b>	<b>3.6694</b>	<b>26.2858</b>	<b>56.1887</b>	<b>3.7423</b>	<b>9.9049</b>	<b>13.0084</b>
Endosulfan I	7.6919	4.3780	3.0632	3.5446	3.4193	3.4704	3.3444	4.4008	11.4183	6.5733	5.2877	6.9188
Endosulfan II	15.7230	16.4366	10.2634	10.1963	14.4394	21.2721	12.2870	16.8300	21.1759	11.5153	10.5070	23.0067
Endosulfan sulfate	50.0623	50.6177	31.2538	29.3416	45.7133	46.8153	30.2038	37.4606	57.4178	34.5798	30.0038	42.2043
<b>Endrin</b>	<b>30.3161</b>	<b>106.8442</b>	<b>3.5384</b>	<b>2.9863</b>	<b>3.7475</b>	<b>187.8964</b>	<b>5.5787</b>	<b>109.6521</b>	<b>195.1355</b>	<b>3.9361</b>	<b>3.0187</b>	<b>85.2870</b>
Endrin aldehyde	12.3789	7.1448	6.9621	4.8870	6.1532	9.0101	9.1886	6.8651	9.3664	12.0481	5.3089	11.6595
Endrin ketone	22.5566	21.1751	20.9286	19.5396	22.1428	20.8980	29.1745	19.8383	20.8556	20.9406	19.8225	23.0395
<b>Heptachlor</b>	<b>30.5429</b>	<b>12.2914</b>	<b>13.3533</b>	<b>13.0086</b>	<b>22.8053</b>	<b>22.2151</b>	<b>14.8938</b>	<b>12.4714</b>	<b>12.5521</b>	<b>15.0613</b>	<b>13.3778</b>	<b>19.3324</b>
Heptachlor epoxide	8.9822	8.3581	3.2667	1.8020	10.1024	5.2628	7.0903	2.9630	6.9634	8.0071	1.5588	7.3308
Methoxychlor	46.2031	34.6566	19.8827	20.5102	46.5806	63.4038	20.2014	36.6293	77.4188	24.2262	21.3167	37.8699

單位：ppb N.D.：not detected

表41 柴胡有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10	11	12	13
PCNB	23.9097	23.5974	N.D.	23.5568	23.5304	N.D.	N.D.	N.D.	N.D.	24.0622	N.D.	24.1093	N.D.
α-BHC	N.D.	N.D.	14.7103	14.4550	15.0629	16.6348	14.9702	N.D.	N.D.	14.7748	N.D.	15.3216	N.D.
β-BHC	N.D.	21.1609	20.0810	20.8607	21.8650	24.0775	N.D.	20.8614	20.9651	21.8737	N.D.	21.3700	N.D.
γ-BHC	12.5887	13.4603	13.6146	12.6688	12.9371	16.2352	14.0249	13.2190	N.D.	13.5040	N.D.	13.7881	N.D.
δ-BHC	146.9260	44.1074	37.6903	172.6546	27.5104	28.1440	10.2133	123.4136	11.0732	53.2098	N.D.	264.5409	32.7401
<b>總 BHC</b>	<b>159.5147</b>	<b>78.7286</b>	<b>86.0962</b>	<b>220.6392</b>	<b>77.3754</b>	<b>85.0915</b>	<b>39.2084</b>	<b>157.4940</b>	<b>32.0383</b>	<b>103.3623</b>	<b>N.D.</b>	<b>315.0206</b>	<b>32.7401</b>
4,4'-DDD	13.6476	14.2869	16.5741	16.9967	N.D.	17.7067	N.D.	14.0012	N.D.	13.9696	N.D.	N.D.	N.D.
4,4'-DDE	4.6123	7.7632	4.5944	4.1224	4.5966	5.4088	N.D.	4.1168	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDT	18.5199	15.1401	N.D.	20.1058	N.D.	N.D.	N.D.	14.8703	N.D.	N.D.	N.D.	N.D.	N.D.
<b>總 DDT</b>	<b>36.7798</b>	<b>37.1902</b>	<b>21.1685</b>	<b>41.2249</b>	<b>4.5966</b>	<b>23.1156</b>	<b>N.D.</b>	<b>32.9882</b>	<b>N.D.</b>	<b>13.9696</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Aldrin	5.3290	10.9601	7.9085	7.8263	8.2975	6.0462	8.1222	6.7498	5.5108	7.7273	5.6921	6.6913	N.D.
Dieldrin	N.D.	3.9797	4.6766	N.D.	N.D.	N.D.	N.D.	2.5484	N.D.	1.7801	N.D.	N.D.	1.6441
<b>Aldrin + Dieldrin</b>	<b>5.3290</b>	<b>14.9398</b>	<b>12.5850</b>	<b>7.8263</b>	<b>8.2975</b>	<b>6.0462</b>	<b>8.1222</b>	<b>9.2981</b>	<b>5.5108</b>	<b>9.5074</b>	<b>5.6921</b>	<b>6.6913</b>	<b>1.6441</b>
Endosulfan I	11.4164	6.0176	5.7949	7.4978	5.2556	8.1719	6.0003	5.4793	5.3206	N.D.	N.D.	N.D.	5.7755
Endosulfan II	11.5173	N.D.	N.D.	11.5141	N.D.	14.0642	N.D.	13.1058	N.D.	12.3303	N.D.	N.D.	N.D.
Endosulfan sulfate	34.7242	N.D.	34.5680	33.8887	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>Endrin</b>	<b>6.5166</b>	<b>6.3119</b>	<b>6.5269</b>	<b>35.2815</b>	<b>6.6502</b>	<b>8.6651</b>	<b>7.2095</b>	<b>5.6882</b>	<b>N.D.</b>	<b>7.1305</b>	<b>N.D.</b>	<b>8.5451</b>	<b>N.D.</b>
Endrin aldehyde	9.7459	N.D.	9.3924	77.1652	N.D.	21.7872	9.1524	11.5592	9.8237	N.D.	N.D.	14.8291	N.D.
Endrin ketone	N.D.	N.D.	22.8104	N.D.	N.D.	23.7159	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>Heptachlor</b>	<b>13.9509</b>	<b>13.8621</b>	<b>14.9810</b>	<b>14.6790</b>	<b>16.5192</b>	<b>21.7793</b>	<b>N.D.</b>	<b>13.7408</b>	<b>13.7542</b>	<b>14.6791</b>	<b>N.D.</b>	<b>15.3170</b>	<b>15.8921</b>
Heptachlor epoxide	21.0435	7.0764	12.4909	12.2496	2.9261	13.2168	2.5788	N.D.	N.D.	N.D.	N.D.	3.1955	N.D.
Methoxychlor	49.3896	30.4116	N.D.	N.D.	N.D.	N.D.	32.7941	47.4368	33.2564	N.D.	N.D.	37.8927	N.D.

單位：ppb      N.D.：not detected

表42 續斷有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10	11	12	13
PCNB	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
α-BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
β-BHC	24.9767	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
γ-BHC	12.5390	13.2642	N.D.	N.D.	N.D.	15.6490	N.D.	N.D.	N.D.	14.1369	N.D.	14.8268	N.D.
δ-BHC	12.0471	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>總 BHC</b>	<b>49.5628</b>	<b>13.2642</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>15.6490</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>14.1369</b>	<b>N.D.</b>	<b>14.8268</b>	<b>N.D.</b>
4,4'-DDD	N.D.	14.8209	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	14.4944
4,4'-DDE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDT	15.4083	18.6797	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	18.8984
<b>總 DDT</b>	<b>15.4083</b>	<b>33.5006</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>33.3928</b>
Aldrin	7.7025	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>Aldrin + Dieldrin</b>	<b>7.7025</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Endosulfan I	5.6562	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	12.9809	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	31.5310	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	38.7475	N.D.	N.D.	N.D.
<b>Endrin</b>	<b>5.3062</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Endrin aldehyde	9.6521	13.0157	11.6343	N.D.	N.D.	13.0486	N.D.	15.0837	N.D.	N.D.	N.D.	N.D.	14.1177
Endrin ketone	22.9818	26.5209	29.9034	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>Heptachlor</b>	<b>18.3922</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	37.7756	36.1376	37.7675	N.D.	N.D.	42.5947	N.D.	62.7265	N.D.	47.1545	N.D.	N.D.	39.9147

單位：ppb N.D.：not detected

表43 玄參有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10	11	12	13
PCNB	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
α-BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
β-BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
γ-BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
δ-BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>總 BHC</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
4,4'-DDD	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDT	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>總 DDT</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Aldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>Aldrin + Dieldrin</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Endosulfan I	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>Endrin</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Endrin aldehyde	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endrin ketone	23.6219	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>Heptachlor</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

單位：ppb      N.D.：not detected



表44 知母有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10	11	12
PCNB	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	23.0926
α-BHC	N.D.	14.1599	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	27.3964
β-BHC	N.D.	N.D.	N.D.	19.3490	N.D.	N.D.	N.D.	N.D.	N.D.	20.3447	N.D.	19.3115
γ-BHC	12.2425	13.0771	13.9817	13.3289	13.3657	13.6964	12.2737	12.2205	N.D.	13.7035	N.D.	18.5588
δ-BHC	6.0141	6.0886	N.D.	N.D.	7.1557	6.7980	N.D.	N.D.	N.D.	6.7454	N.D.	N.D.
<b>總 BHC</b>	<b>18.2565</b>	<b>33.3256</b>	<b>13.9817</b>	<b>32.6779</b>	<b>20.5214</b>	<b>20.4944</b>	<b>12.2737</b>	<b>12.2205</b>	<b>N.D.</b>	<b>40.7936</b>	<b>N.D.</b>	<b>65.2667</b>
4,4'-DDD	11.9233	N.D.	N.D.	N.D.	N.D.	12.6697	N.D.	N.D.	N.D.	12.7199	N.D.	N.D.
4,4'-DDE	3.2856	N.D.	4.1490	N.D.	7.2974	5.9399	4.4716	N.D.	N.D.	N.D.	N.D.	3.3918
4,4'-DDT	14.2295	14.7544	15.5319	14.6319	18.3338	15.3047	14.5300	13.5629	13.7637	14.2256	N.D.	14.5240
<b>總 DDT</b>	<b>29.4384</b>	<b>14.7544</b>	<b>19.6809</b>	<b>14.6319</b>	<b>25.6312</b>	<b>33.9142</b>	<b>19.0016</b>	<b>13.5629</b>	<b>13.7637</b>	<b>26.9455</b>	<b>N.D.</b>	<b>17.9158</b>
Aldrin	4.8996	4.8027	4.6623	4.8022	5.1577	5.7480	4.4831	N.D.	N.D.	4.0776	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>Aldrin + Dieldrin</b>	<b>4.8996</b>	<b>4.8027</b>	<b>4.6623</b>	<b>4.8022</b>	<b>5.1577</b>	<b>5.7480</b>	<b>4.4831</b>	<b>N.D.</b>	<b>N.D.</b>	<b>4.0776</b>	<b>N.D.</b>	<b>N.D.</b>
Endosulfan I	3.7421	5.8580	N.D.	4.5799	7.5060	4.6360	N.D.	N.D.	N.D.	3.7842	N.D.	N.D.
Endosulfan II	N.D.	13.1736	N.D.	N.D.	N.D.	12.7529	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	41.4336	N.D.	N.D.	N.D.	N.D.	38.9684	N.D.	N.D.	N.D.	N.D.	N.D.	37.3556
<b>Endrin</b>	<b>13.7140</b>	<b>33.7268</b>	<b>10.6266</b>	<b>5.6396</b>	<b>12.8584</b>	<b>23.2445</b>	<b>14.6112</b>	<b>7.1452</b>	<b>7.2521</b>	<b>5.4959</b>	<b>70.2472</b>	<b>5.6607</b>
Endrin aldehyde	10.5756	7.4540	N.D.	N.D.	12.7087	18.4680	N.D.	8.0297	7.9591	N.D.	65.8375	16.9267
Endrin ketone	20.9680	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	21.0647
<b>Heptachlor</b>	<b>14.0524</b>	<b>13.6202</b>	<b>15.1679</b>	<b>14.3376</b>	<b>N.D.</b>	<b>13.5605</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>12.9386</b>	<b>N.D.</b>	<b>N.D.</b>
Heptachlor epoxide	2.8755	6.7237	6.1281	3.9002	6.9724	4.9364	2.2259	1.7081	1.7281	3.0326	N.D.	14.0816
Methoxychlor	29.3023	N.D.	N.D.	N.D.	N.D.	33.3298	N.D.	N.D.	N.D.	N.D.	N.D.	35.6736

單位：ppb N.D.：not detected

表45 白芍有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10	11	12
PCNB	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	26.4363	N.D.	N.D.
α-BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
β-BHC	N.D.	N.D.	N.D.	26.0261	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
γ-BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
δ-BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	7.9797	N.D.
<b>總 BHC</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>26.0261</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>7.9797</b>	<b>N.D.</b>
4,4'-DDD	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5.1128	N.D.
4,4'-DDT	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>總 DDT</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>5.1128</b>	<b>N.D.</b>
Aldrin	N.D.	N.D.	5.2348	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	15.4170	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>Aldrin + Dieldrin</b>	<b>N.D.</b>	<b>N.D.</b>	<b>5.2348</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>15.4170</b>	<b>N.D.</b>
Endosulfan I	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	37.2522	N.D.
<b>Endrin</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Endrin aldehyde	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endrin ketone	N.D.	N.D.	N.D.	23.1934	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	26.4326	N.D.
<b>Heptachlor</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

單位：ppb      N.D.：not detected

表46 甘草有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10	11	12
PCNB	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
α-BHC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
β-BHC	19.7870	21.9007	22.4614	19.0529	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
γ-BHC	N.D.	N.D.	N.D.	12.4241	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
δ-BHC	5.7442	N.D.	9.2353	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>總 BHC</b>	<b>25.5312</b>	<b>21.9007</b>	<b>31.6967</b>	<b>31.4770</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
4,4'-DDD	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDT	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>總 DDT</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Aldrin	4.2205	N.D.	N.D.	4.4941	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dieldrin	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>Aldrin + Dieldrin</b>	<b>4.2205</b>	<b>N.D.</b>	<b>N.D.</b>	<b>4.4941</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Endosulfan I	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	N.D.	N.D.	N.D.	N.D.	37.2207	N.D.	N.D.	N.D.	33.7254	N.D.	N.D.	N.D.
<b>Endrin</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Endrin aldehyde	N.D.	N.D.	N.D.	N.D.	9.9626	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endrin ketone	N.D.	N.D.	N.D.	N.D.	24.8767	N.D.	26.0280	N.D.	23.5537	N.D.	N.D.	N.D.
<b>Heptachlor</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>13.2901</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Heptachlor epoxide	N.D.	N.D.	N.D.	N.D.	2.8373	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	N.D.	N.D.	N.D.	26.2999	42.0093	N.D.	44.7066	N.D.	36.5671	N.D.	N.D.	N.D.

單位：ppb N.D.：not detected

表47 人參鬚有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10	11
PCNB	670.4368	<b>1165.5721</b>	<b>1296.7890</b>	<b>4326.6943</b>	487.3698	139.4013	43.7585	372.8596	652.4069	765.7031	153.2161
α-BHC	116.2085	24.5347	25.6837	56.3149	19.7309	221.4225	16.8274	18.3017	15.8987	63.4954	153.2161
β-BHC	107.8136	N.D.	40.9936	N.D.	N.D.	57.1357	N.D.	N.D.	N.D.	27.8499	59.4771
γ-BHC	109.7129	16.2557	18.3880	N.D.	15.4674	239.7545	14.7096	15.2676	N.D.	44.8773	161.0149
δ-BHC	353.4285	17.2346	14.5714	368.2090	31.2777	633.3430	24.0848	46.3373	16.7134	232.0418	11.4471
<b>總 BHC</b>	<b>687.1636</b>	<b>58.0249</b>	<b>99.6366</b>	<b>424.5239</b>	<b>66.4760</b>	<b>1151.6558</b>	<b>55.6218</b>	<b>79.9066</b>	<b>32.6121</b>	<b>368.2643</b>	<b>385.1552</b>
4,4'-DDD	12.8086	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDE	4.1981	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDT	18.8266	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>總 DDT</b>	<b>35.8334</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Aldrin	431.4903	724.3098	1124.6422	1598.0522	57.0148	7.4053	8.8387	143.5603	260.8805	404.4850	614.7304
Dieldrin	N.D.	6.1262	3.3805	N.D.	N.D.	N.D.	N.D.	2.1995	N.D.	N.D.	4.2375
<b>Aldrin + Dieldrin</b>	<b>431.4903</b>	<b>730.4360</b>	<b>1128.0227</b>	<b>1598.0522</b>	<b>57.0148</b>	<b>7.4053</b>	<b>8.8387</b>	<b>145.7597</b>	<b>260.8805</b>	<b>404.4850</b>	<b>618.9680</b>
Endosulfan I	4.6117	8.2685	6.4093	25.6073	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	16.7873	N.D.	N.D.	43.0220	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>Endrin</b>	<b>171.4862</b>	<b>10.1320</b>	<b>N.D.</b>	<b>76.5959</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>28.9669</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Endrin aldehyde	8.1597	3.9285	N.D.	N.D.	N.D.	N.D.	6.1460	N.D.	N.D.	N.D.	N.D.
Endrin ketone	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>Heptachlor</b>	<b>13.3135</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Heptachlor epoxide	11.3630	15.3667	6.7423	42.1163	N.D.	3.3319	N.D.	7.8344	N.D.	N.D.	N.D.
Methoxychlor	31.6100	37.1707	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	24.8711	N.D.	N.D.

單位：ppb      N.D.：not detected

表48 人參鬚經均質後有機氯農藥殘留檢測結果

檢品編號 農藥名稱	1	2	3	4	5	6	7	8	9	10	11
PCNB	<b>6900.2003</b>	863.3806	934.6568	409.4043	145.3540	50.5568	30.8978	108.0621	405.5486	478.0666	526.1817
α-BHC	368.1280	20.2960	20.3167	16.9599	15.5569	53.5978	15.2703	16.3073	N.D.	31.3582	59.5404
β-BHC	499.4337	N.D.	31.1967	N.D.	N.D.	39.2400	N.D.	N.D.	N.D.	38.1865	43.5429
γ-BHC	481.1546	14.7998	14.5696	13.3980	14.0270	81.5715	13.5955	N.D.	N.D.	27.6023	67.5323
δ-BHC	338.6019	14.4986	237.2990	36.9181	10.3832	681.1004	14.1974	16.3053	11.9138	15.3130	679.7911
<b>總 BHC</b>	<b>1687.3181</b>	<b>49.5944</b>	<b>303.3820</b>	<b>67.2760</b>	<b>39.9670</b>	<b>855.5096</b>	<b>43.0631</b>	<b>32.6127</b>	<b>11.9138</b>	<b>112.4601</b>	<b>850.4067</b>
4,4'-DDD	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDE	N.D.	5.6712	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4,4'-DDT	33.6122	10.1483	N.D.	N.D.	N.D.	N.D.	8.1740	24.1526	N.D.	N.D.	N.D.
<b>總 DDT</b>	<b>33.6122</b>	<b>15.8196</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>8.1740</b>	<b>24.1526</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Aldrin	4705.1823	532.0528	778.1344	113.0209	32.2522	6.3763	7.8081	N.D.	106.2540	127.8591	382.6265
Dieldrin	19.4380	6.9882	3.6709	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	3.2600
<b>Aldrin + Dieldrin</b>	<b>4724.6203</b>	<b>539.0409</b>	<b>781.8053</b>	<b>113.0209</b>	<b>32.2522</b>	<b>6.3763</b>	<b>7.8081</b>	<b>N.D.</b>	<b>106.2540</b>	<b>127.8591</b>	<b>385.8865</b>
Endosulfan I	N.D.	8.7288	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan II	33.0243	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Endosulfan sulfate	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>Endrin</b>	<b>98.0284</b>	<b>12.0204</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Endrin aldehyde	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	8.8558	N.D.
Endrin ketone	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
<b>Heptachlor</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>	<b>N.D.</b>
Heptachlor epoxide	43.0928	14.7144	N.D.	5.9631	6.7882	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Methoxychlor	N.D.	28.7490	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

單位：ppb      N.D.：not detected

表 49 藥材中有機氯劑含量超出各國限量標準規定件數統計

藥材	規範 (ppm)	中華中藥典* <sup>2</sup> 日本藥局方* <sup>3</sup> 中國藥典			歐盟蔬果農藥殘留標準						
		總 DDT	總 BHC	PCNB	總 DDT	PCNB	BHC (α, β, δ)	BHC (γ)	Aldrin + Dieldrin	Endrin	Heptachloride
		0.2	0.2	0.1	1.0	1.0	0.3	0.6	0.05	0.05	0.05
艾草		3/ 10* <sup>1</sup>	3 / 10	4 / 10	3 / 10	3 / 10	3 / 10		4 / 10	3 / 10	3 / 10
筆仔草(金絲草)		—	—	—	—	—	—	—	5 / 10		—
白花馬齒莧		—	—	—	—	—	—	—	1 / 10		—
絞股藍		—	—	—	—	—	—	—		2 / 10	—
金銀花		—	—	—	—	—	—	—	—	—	2 / 10
香附		—	—	—	—	—	13 / 13	9 / 13	9 / 13	11 / 13	10 / 13
川芎		—	—	—	—	—	—	—	1 / 12	5 / 12	—
知母		—	—	—	—	—	—	—	—	1 / 12	—

\*1：表示方式：不合格檢品數 / 檢品總數。

\*2：中華中藥典標準：DDT、BHC、PCNB 適用於人參、甘草、黃耆、番瀉葉(衛生署規定)。僅番瀉葉的總 DDT、總 BHC 量均訂為 0.2ppm，其餘的總 DDT 含量訂為 1.0 ppm，總 BHC 含量訂為 0.9 ppm。PCNB 均訂為 1.0 ppm。

\*3：日本藥局方未規定 PCNB 的含量。

—：not detected

表50 藥材中有機氯劑含量超出各國限量標準規定不合格率

藥材	規格 (ppm) 不合格率	中華中藥典* <sup>1</sup> 日本藥局方* <sup>2</sup> 中國藥典			歐盟蔬果農藥殘留標準						
		總 DDT	總 BHC	PCNB	總 DDT	PCNB	BHC ( $\alpha, \beta, \delta$ )	BHC ( $\gamma$ )	Aldrin + Dieldrin	Endrin	Heptachloride
		0.2	0.2	0.1	1.0	1.0	0.3	0.6	0.05	0.05	0.05
艾草		30%	30%	40%	30%	30%	30%	—	40%	30%	30%
筆仔草(金絲草)		—	—	—	—	—	—	—	50%	—	—
白花馬齒莧		—	—	—	—	—	—	—	10%	—	—
絞股藍		—	—	—	—	—	—	—	—	20%	—
金銀花		—	—	—	—	—	—	—	—	—	17%
香附		—	—	—	—	—	100%	69%	69%	85%	83%
川芎		—	—	—	—	—	—	—	8%	42%	—
知母		—	—	—	—	—	—	—	—	8%	—

\*1：中華中藥典標準：DDT、BHC、PCNB 適用於人參、甘草、黃耆、番瀉葉(衛生署規定)。僅番瀉葉的總 DDT、總 BHC 量均訂為 0.2ppm，其餘的總 DDT 含量訂為 1.0 ppm，總 BHC 含量訂為 0.9 ppm。PCNB 均訂為 1.0 ppm。

\*2：日本藥局方未規定 PCNB 的含量。

—：not detected

## 捌、附錄

## 附錄一 我國禁用農藥名稱

更新至2006.06.01

農藥名稱	英文名稱	禁止製造、加工、輸入日期	禁止銷售使用日期	備註 〔禁用原因〕
有機水銀劑	Organic mercury	61年10月25日	61年10月25日	長效性環境污染
安特寧	Endrin	60年1月1日	61年1月1日	長效性環境污染
滴滴涕	DDT	62年7月1日	63年7月1日	長效性環境污染
飛佈達	Heptachlor	64年1月1日	64年10月1日	長效性環境污染
阿特靈	Aldrin	64年1月1日	64年10月1日	長效性環境污染
地特靈	Dieldrin	64年1月1日	64年10月1日	長效性環境污染
蟲必死	BHC	64年1月1日	64年10月1日	長效性環境污染
福賜松	Leptophos	66年6月1日	67年6月1日	劇毒性
護谷、護谷殺丹 丹護得壯、丁拉護谷	Nitrofen	70年1月1日	72年1月1日	致畸胎
二溴氯丙烷	DBCP	70年6月6日 停止受理登記		生育毒性
克氯苯	Chlorobenzilate	71年9月21日	72年9月21日	致癌性
毒殺芬	Toxaphene	72年7月19日	73年1月19日	致畸胎
五氯酚鈉	PCP-Na	72年7月19日	73年1月19日	不純物dioxin致癌
保無根	PAMCON	72年7月19日	73年1月19日	五氯酚混合劑
草敵克	PCP-Na+CPH	72年7月19日	73年1月19日	五氯酚混合劑
益必田	EDIDEN	72年7月19日	73年1月19日	五氯酚混合劑
必脫草	PCP-Na+ Phenothiol	72年7月19日	73年1月19日	五氯酚混合劑
二溴乙烷	EDB	73年2月22日		致癌性
靈丹	r-BHC	73年8月7日	74年2月1日	致腫瘤性
蕉特靈	Lindane-C	73年8月15日	74年2月1日	靈丹混合劑
抑芽素30%S	MH-30	73年10月24日	74年5月1日	不純物致癌性
達諾殺	Dinoseb	75年12月8日	75年12月20日	致畸胎性
達得爛	Daynap	75年12月8日	75年12月20日	達諾殺混合劑
氰乃淨	Cyanazine	76年7月9日	76年7月1日	致畸胎性
滴滴	Dichloropropanedi-Chloropropene	76年7月9日	76年7月9日	致癌性
滴滴滅	VARLEX	76年7月9日	76年7月9日	滴滴混合劑
樂乃松	Fenchlorphos	76年9月2日	76年9月2日	致畸胎
四氣丹	Captafol	76年10月22日	77年10月1日	致癌性
鋅銅四氣丹	Captafol-Zn,Cu	76年10月22日	77年10月1日	四氣丹混合劑
保粒四氣丹	Captafol- Polyoxins	76年10月22日	77年10月1日	四氣丹混合劑



安殺番 35% 乳劑	Endosulfan 35%EC	78年1月13日	79年1月15日	劇毒及殘留
亞拉生長素	Daminozide	78年6月21日	79年1月1日	致腫瘤性
蓋普丹	Captan	78年7月13日	79年7月1日	致腫瘤性
福爾培	Folpet	78年7月13日	79年7月1日	致腫瘤性
錫丹	Cyhexatin	78年7月13日	79年7月1日	致畸胎性
五氯硝苯	PCNB	78年7月13日	79年7月1日	致腫瘤性
嘉賜蓋	Captan- Kasugamycin	78年7月13日	79年7月1日	蓋普丹混合劑
免賴丹	Captan-Benomyl	78年7月13日	79年7月1日	蓋普丹混合劑
普得丹	Captan-Ditalimfos	78年7月13日	79年7月1日	蓋普丹混合劑
保拉丹	Captan-Polyoxin B	78年7月13日	79年7月1日	蓋普丹混合劑
蓋克爛	Captan-dielonran	78年7月13日	79年7月1日	蓋普丹混合劑
玉果袋	Captan- Chlorothalonil	78年7月13日	79年7月1日	含蓋普丹套袋
福爾本達樂	Folpet-Benalaxyl	78年7月13日	79年7月1日	福爾培混合劑
福賽培	Folper-Fosetyl	78年7月13日	79年7月1日	福爾培混合劑
白粉克	Dinocap	79年5月9日	79年12月31日	致畸胎
白克瑞	Dinocap-dicofol	79年5月9日	79年12月31日	白粉克混合劑
鋅錳粉克	Dinocap-mancozeb	79年5月9日	79年12月31日	白粉克混合劑
大脫瑞	Dinobuton	80年5月27日	80年12月1日	代謝產物為達諾殺， 自行註銷
得滅克	Aldicarb	80年10月15日	81年1月1日	極劇毒農藥，自行註銷
全滅草	Chlornitrofen, CNP	83年7月15日 (禁止輸入) 84年12月31日 (禁止製造)	81年1月1日	致腫瘤性
丁拉滅草	Butachlor+CNP	83年7月15日 (禁止輸入) 84年12月31日 (禁止製造)	81年1月1日	全滅草混合劑
殺滅丹	Benthiocarb+CNP	83年7月15日 (禁止輸入) 84年12月31日 (禁止製造)	81年1月1日	全滅草混合劑
得滅草	Molinate+CNP	83年7月15日 (禁止輸入) 84年12月31日 (禁止製造)	81年1月1日	全滅草混合劑
滅草	CNP+MCPA	83年7月15日 (禁止輸入) 84年12月31日 (禁止製造)	86年1月1日	全滅草混合劑

醋錫殺滅丹	Fentinacetate+Benthiocarb +CNP	83年7月15日 (禁止輸入) 84年12月31日 (禁止製造)	86年1月1日	全滅草混合劑
得脫瞞	Tetradifon	83年10月4日	85年7月1日	致腫瘤性及畸胎性
得克瞞	Tetradifon~Chloropro- pylate	83年10月4日	85年7月1日	得脫瞞混合劑
大克脫瞞	Dicofol-Tetradifon	83年10月4日	85年7月1日	得脫瞞混合劑
必芬得脫瞞	Pyridaphenthion+Tetradifo n	83年10月4日	85年7月1日	得脫瞞混合劑
巴拉松 47%乳劑	Parathion	84年3月24日	86年1月1日	極劇毒
巴拉松 50%乳劑	Parathion+Malathion	84年3月24日	86年1月1日	極劇毒
飛克松 40%乳劑	Prothoate	84年3月24日	86年1月1日	極劇毒
亞特文松 50%乳劑	Pirimiphos- methyl+Mevinphos	84年3月24日	86年1月1日	極劇毒
能死瞞	Mnfa (Nissol)	85年7月3日 (得加工至 86年 10月31日止)	88年11月1日	致腫瘤性
能殺瞞	MNFA+Bromopropylate	85年7月3日 (得加工至86年 10月31日止)	88年11月1日	能死瞞混合劑
得氯瞞	Dicnochlor	85年10月14日	87年8月1日	長效性有機氯劑
一品松	EPN	85年12月9日 (得加工至86年 2月28日止)	87年8月1日	極劇毒、遲發性神經 毒
甲品松	Methyl Parathion+EPN	85年12月9日(得 加工至86年2月 28日止)	87年8月1日	一品松混合劑
益穗	Thiram+Ziram+Urbacid	86年3月7日	86年3月7日	EBDC類 無原體登 記許可證
鐮乃浦	SANKEL	86年7月7日	87年7月1日	EBDC類
益地安	ETM	86年7月7日	87年7月1日	EBDC類 已無登記 證，新申請 時重新來 過
二氯松原體二 氯松50%乳劑	Dichlorvos,DDVP	85年12月30日 (得加工至86年2 月28日止)	87年8月1日	致腫瘤性
亞環錫	Azocyclotin	86年9月30日 (得加工至 86年 12月31日止)	88年1月1日	代謝產物為錫瞞丹

三苯醋錫	TPTA	86年9月30日 (得加工至86年 12月31日止)	88年1月1日	畸型性
三苯羥錫	TPTH	86年9月30日(得 加工至86年 12月31日止)	88年1月1日	畸型性
鋅乃浦	Zineb	86年9月30日 (得加工至86年 12月31日止)	88年1月1日	致大鼠畸型性
銅鋅錳乃浦	Copper Oxychlorid-zineb- maneb	86年9月30日 (得加工至86年 12月31日止)	88年1月1日	鋅乃浦混合劑
鋅錳波爾多	Coppersulphate-maneb~ zinb	87年2月13日	88年1月1日	鋅乃浦混合劑
銅合浦	Basiccopper sulfate+ CuframZ	86年11月11日	88年1月1日	不純物ETU係致癌因 子
加保扶85% 可濕性粉劑	Carbofuran	85年9月16日	88年1月1日	劇毒
加保扶75% 可濕性粉劑	Carbofuran	86年12月31日	88年1月1日	劇毒
大福松 47.3%乳劑	Fonofos	86年12月31日	88年1月1日	極劇毒
美文松 25.3%乳劑	Mevinphos	86年12月31日	88年1月1日	極劇毒
福文松 70%溶液	Phosphamidon+ Mevmphos	86年12月31日	88年1月1日	極劇毒
福賜米松 50%溶液	Phosphamidon	86年12月31日	88年1月1日	極劇毒
普伏松 70.6%乳劑	Ethoprop	86年12月31日	88年1月1日	極劇毒
普硫美文松 45.3%乳劑	Prothiophos+ Mevmphos	86年12月31日	88年1月1日	極劇毒
鋅錳波爾多	Copper sulphate-maneb- zineb	87年2月13日	88年1月1日	鋅乃浦混合劑
亞素靈 55%溶液	Monocrotophos	89年01月01日	89年09月01日	對鳥類高毒性、呼吸 極劇毒及農民曝露風 險
百蟎克	Binapacryl	90年07月01日	90年07月01日	生殖毒性
溴化甲烷	Methyl Bromide	92年04月04日	92年04月01日	聯合國臭氧層管制物 質
殺力松	Salithion	92年06月03日	92年06月03日	無產銷、缺毒理資料
溴磷松	Bromophos	92年06月03日	92年06月03日	無產銷、缺毒理資料
得滅多	Buthiobate	92年06月03日	92年06月03日	無產銷、缺毒理資料
普得松	Ditalimfos	92年06月03日	92年06月03日	無產銷、缺毒理資料

加芬丁滅蟲	Carbophenothion+BPMC	92年06月03日	92年06月03日	無產銷、缺毒理資料
加芬松	Carbophenothion	92年06月03日	92年06月03日	無產銷、缺毒理資料
加芬賽寧	Carbophenothion+cypermethrin	92年06月03日	92年06月03日	無產銷、缺毒理資料
加滅蟲	Carbophenothion+MIPC	92年06月03日	92年06月03日	無產銷、缺毒理資料
甲基滅賜松	Demephion	92年06月03日	92年06月03日	無產銷、缺毒理資料
托美松	Terbufos+mephofolan	92年06月03日	92年06月03日	無產銷、缺毒理資料
美福松	Mephosfolan	92年06月03日	92年06月03日	無產銷、缺毒理資料
得拉松	Dialifos	92年06月03日	92年06月03日	無產銷、缺毒理資料
繁福松	Fensulfothion	92年06月03日	92年06月03日	無產銷、缺毒理資料
西脫蟎	Benzoximate	92年06月03日	92年06月03日	無產銷、缺毒理資料
克氯蟎	Chloropropylate	92年06月03日	92年06月03日	無產銷、缺毒理資料
亞殺蟎	Smite+azoxybenzene	92年06月03日	92年06月03日	無產銷、缺毒理資料
殺蟎多	smite	92年06月03日	92年06月03日	無產銷、缺毒理資料
可力松	Conen	92年06月03日	92年06月03日	無產銷、缺毒理資料
福木松	Formothion	92年07月01日	95年01月01日	無產銷、缺毒理資料
大福賽寧	Fonofos cypermehrin	94年01月19日	95年01月01日	缺毒理資料
福保扶	Carbofuran fonofos	94年01月19日	95年01月01日	缺毒理資料
福滅蟲	Fonofos MIPC	94年01月19日	95年01月01日	缺毒理資料
大福松	Fonofos	94年01月19日	95年01月01日	缺毒理資料
大福丁滅蟲	Fonofos BPMC	94年01月19日	95年01月01日	缺毒理資料
氯化苦 99%溶液	Chloropicrin	95年01月03日	95年01月03日	劇毒性農藥、國內多年無產銷紀錄
芬保扶50% 可溼性粉劑	Carbofuran-carbophenothion	95年01月03日	95年01月03日	劇毒性農藥、國內多年無產銷紀錄
加護松 50%乳劑	Propaphos	95年01月03日	95年01月03日	劇毒性農藥、國內多年無產銷紀錄
普硫美文松 30%乳劑	Prothiofos+mevinphos	95年01月03日	95年01月03日	劇毒性農藥、國內多年無產銷紀錄
裕馬松 40%乳劑	Phosalone-methamidophos	95年01月03日	95年01月03日	劇毒性農藥、國內多年無產銷紀錄
普伏瑞松 10%粒劑	Ethoprophos+phorate	95年01月03日	95年01月03日	劇毒性農藥、國內多年無產銷紀錄
滅加松 35%乳劑	Mecarbam	95年01月03日	95年01月03日	劇毒性農藥、國內多年無產銷紀錄
90%納乃得可 濕性粉劑及水 溶性粒劑	Methomyl	95年06月01日	95年06月01日	劇毒、有效成分含量高

## 附錄二 中華人民共和國禁用農藥名稱

農藥名稱	英文名稱	農業部 公告字號	公告日期	備註
甲拌磷	phorate	第 194 號	2002 年 6 月	停止受理高毒、劇毒農藥新增登記。
氧樂果	omethoate	第 194 號	2002 年 6 月	同上
水胺硫磷	isocarbophos	第 194 號	2002 年 6 月	同上
特丁硫磷	terbufos	第 194 號	2002 年 6 月	同上
甲基硫環磷	phosfolan-methyl	第 194 號	2002 年 6 月	同上
治螟磷	sulfotep	第 194 號	2002 年 6 月	同上
甲基異柳磷	isofenphos-methyl	第 194 號	2002 年 6 月	同上
內吸磷	demeton	第 194 號	2002 年 6 月	同上
涕滅威	aldicarb	第 194 號	2002 年 6 月	同上
克百威	carbofuran	第 194 號	2002 年 6 月	同上
滅多威	methomyl	第 194 號	2002 年 6 月	同上
六六六	HCH	第 199 號	2002 年 6 月 5 日	國家明令禁止使用的農藥。
滴滴涕	DDT	第 199 號	2002 年 6 月 5 日	同上
毒殺芬	camphechlor	第 199 號	2002 年 6 月 5 日	同上
二溴氯丙烷	dibromochloropane	第 199 號	2002 年 6 月 5 日	同上
殺蟲脒	chlordimeform	第 199 號	2002 年 6 月 5 日	同上
二溴乙烷	EDB	第 199 號	2002 年 6 月 5 日	同上
除草醚	nitrofen	第 199 號	2002 年 6 月 5 日	同上
艾氏劑	aldrin	第 199 號	2002 年 6 月 5 日	同上
狄氏劑	dieldrin	第 199 號	2002 年 6 月 5 日	同上
汞製劑	Mercurycompounds	第 199 號	2002 年 6 月 5 日	同上
砷	arsena	第 199 號	2002 年 6 月 5 日	同上
鉛類	acetate	第 199 號	2002 年 6 月 5 日	同上
敵枯雙	MATDA	第 199 號	2002 年 6 月 5 日	同上
氟乙醯胺	fluoroacetamide	第 199 號	2002 年 6 月 5 日	同上
甘氟	gliftor	第 199 號	2002 年 6 月 5 日	同上
毒鼠強	tetramine	第 199 號	2002 年 6 月 5 日	同上

氟乙酸鈉	sodiumfluoroacetate	第 199 號	2002 年 6 月 5 日	同上
毒鼠矽	silatrane	第 199 號	2002 年 6 月 5 日	同上
甲胺磷	methamidophos	第 199 號	2002 年 6 月 5 日	高毒農藥不得用於蔬 菜、果樹、茶葉、中 草藥材上。
甲基對硫磷	parathion-methyl	第 199 號	2002 年 6 月 5 日	同上
對硫磷	parathion	第 199 號	2002 年 6 月 5 日	同上
久效磷	monocrotophos	第 199 號	2002 年 6 月 5 日	同上
磷胺	phosphamidon	第 199 號	2002 年 6 月 5 日	同上
甲拌磷	phorate	第 199 號	2002 年 6 月 5 日	同上
甲基異柳磷	isofenphos-methyl	第 199 號	2002 年 6 月 5 日	同上
特丁硫磷	terbufos	第 199 號	2002 年 6 月 5 日	同上
甲基硫環磷	phosfolan-methyl	第 199 號	2002 年 6 月 5 日	同上
治螟磷	sulfotep	第 199 號	2002 年 6 月 5 日	同上
內吸磷	demeton	第 199 號	2002 年 6 月 5 日	同上
克百威	carbofuran	第 199 號	2002 年 6 月 5 日	同上
涕滅威	aldicarb	第 199 號	2002 年 6 月 5 日	同上
滅線磷	ethoprophos	第 199 號	2002 年 6 月 5 日	同上
硫環磷	phosfolan	第 199 號	2002 年 6 月 5 日	同上
蠅毒磷	coumaphos	第 199 號	2002 年 6 月 5 日	同上
地蟲硫磷	fonofos	第 199 號	2002 年 6 月 5 日	同上
氣唑磷	isazofos	第 199 號	2002 年 6 月 5 日	同上
苯線磷	fenamiphos	第 199 號	2002 年 6 月 5 日	同上
三氯殺蟎醇	dicofol	第 199 號	2002 年 6 月 5 日	不得用於茶樹上。
氰戊菊酯	fenvalerate	第 199 號	2002 年 6 月 5 日	不得用於茶樹上。

以上資料整理自中華人民共和國農業部網站發佈之公文：<http://www.agri.gov.cn//index.htm>