ANALYTICAL PROCEDURE FOR PHOSHHOROUS

Extraction Procedure

Approximately 5 g portions of sample were extracted with 10 ml aliquots of toluene on a gyratory shaker at 400 rpm for 20 minutes. A surrogate, 1,3-dichlorobenzene, was added to achieve a level of 100 ug/L in the final 10.0 ml extract. Before analysis, 10.0 uL of 10000 ug/L 1,4-dichlorobenzene-d, was added to achieve a concentration of 100 ug/L in the extract.

Analysis Procedure

The sample extracts were analysed by GC/MS using an HP 5995C Gas Chromatograph/ Mass Spectrometer interfaced with a HP-1000 RTE-6/VM computer. Sample injections were performed with an HP-7673A autoinjector.

Instrument Conditions

Column	Restek Rix-5 (crossbonded SE-54) 30 m x 0.32 mm ID, 0.50 u film
있다. 이 보이는 소리육빛	thickness
Injector Temperature	290° C
Transfer Temperature	290° C
Source Temperature	240° C
Analyser Temperature	240° C
Temperature Program	30° C for 3 min
	15° C/min to 70° C, hold for 0.2 min 8° C/min to 145 C, hold for 1 min
Splitless Injection Injection Volume	60 sec split time 2.0 uL

The ions were monitored between 9.50 and 11.50 minutes. Ions monitored were:

Compound Ions	Quan	rified Ion
	. :	150
1.3-dichlorobenzene 112, 146, 148		146
Phosphorous 62, 93, 124		124

The GC/MS system was calibrated by analysing a 6 point calibration range of a phosphorous standard at 5, 10, 25, 100, 250, and 500 ng/ml in toluene. The Relative Standard Deviation should be +/10 percent. Before analysis each day, the system must a) pass DFTPP tuning, and b) pass a continuing calibration check by analysing a 100 ng/ml daily standard for phosphorous in which the difference between the result and the standard was less than 25%.

			na mathridge of all i	82
	CO	14	4	A-7
以上	Phone #	NO.	4172	
*Q0V	FAX 1			M.
	80%	Phone Phone	Plone / Port	Prince Pri

00002