Monsanto

FROM (NAME & LOCATION) R.A. Lidgett - Ruabon

DATE : 7th November, 1969

SUBJECT : Aroclor Degradation (Ref. Q. Thompson telephone call 11.5.69)

REFERENCE : RAL/meh

TO : W.R. RICHARD - St. Louis

cc: R.A. Baxter, Ruabon
H.A. Vodden, Ruabon
Q. Thompson, St. Louis

Enclosed with this memo is a chromatogram run under the conditions given in my earlier memo (October 27th 1969).

The peaks have been tentatively labelled using pure P.C.B.'s (supplied by E.S. Tucker) but we do not know whether the early peaks are single or composite, the later peaks we consider to be composed of at least two components.

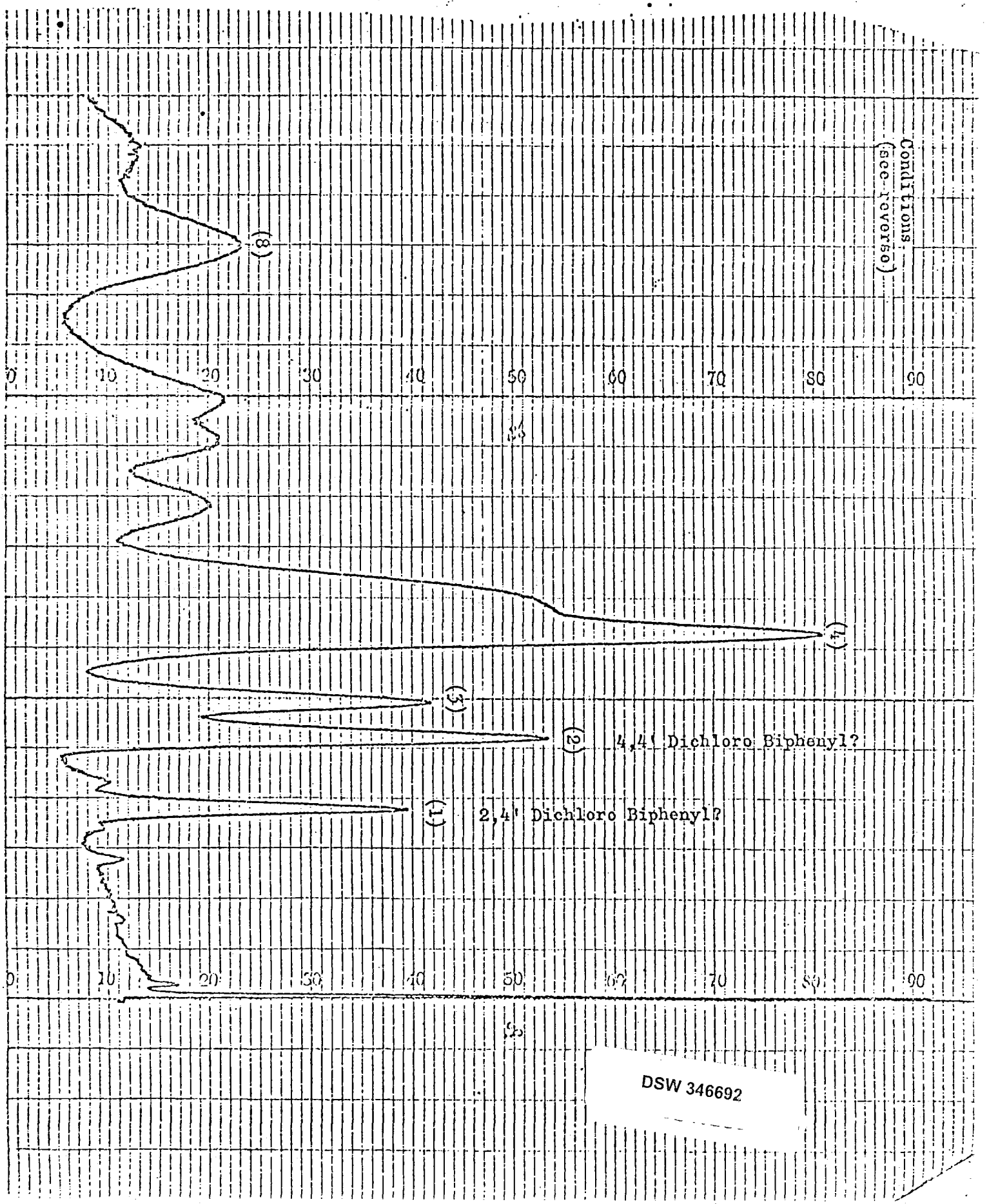
Because of the difficulty in measuring absolute losses of 1242, i.e. because of the lack of detailed information on the electron capture responses of the various isomers, we have started to examine the degradation of a number of pure P.C.B.'s, initially the 2,4' and 4,4' dichloro biphenyls.

This work should give us exact data on the degradation of the early components in 1242 and will be carried out alongside the present work on 1242. At a later date we will extend the work on pure isomers to include tri, tetra and hexachloro compounds.

We will be very interested to hear the results obtained on the g.c./mass spectrometry characterisation of 1242 components.

R.A. LIDGETT

DSW 346691



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Conditions

Instrument	-	H P 402 equipped with Ni^{63} high temperature electron capture detector.
Column	-	4' 3% Silicone Oil OV101 on 80-100 mesh Chromosorb W H.P. (ex Supelco)
Flow	-	40 mls/min. through column plus 60 mls/min. purge flow in detector. Both of Argon/Methane 95/5.
Oven Temp.	-	170°C
Flash Heater	-	250°C
Detector	-	250°C
Sample Size	-	4 µl.
Pulser	-	150 m. sec.

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