

MX 957

MONSANTO COMPANY

Nº 2344910

SUBJECT Santoplen 1 analysis (workup)

JOB NO. 13-022-760.41

PREPARED BY (SIGNATURE)

DATE

483.23701

David E. Kirk

April 25, 1983

Objective: to extract sample received and to
cleanup extract to look for isomers of
dioxin and furan.

Sample: Santoplen 1
CC 7950

5 grams
SFS 4/19/83

Methods MRC #24-09 Prep R-1 except
add multistage column to before going
onto workup. (did not use tandem column
arrangement but blew down sample before
and after multi-stage column)

UT 410 5 grams of sample

UT 411 Replicate

UT 412 Low Spike

UT 413 High Spike

UT 414 Solvent Blank

SUBJECT TO PROTECTIVE ORDER.

1048 of 1/10
mixed dioxin

2048 of 1/10
mixed furan

10048 of 1/10
mixed dioxin

20048 of 1/10
mixed furan

all Samples:

10 μ l of 2.6 $\text{Ng}/\mu\text{l}$ C_{13} TCDD

40 μ l of 3.0 $\text{Ng}/\mu\text{l}$ C_{17} TCDF

002773

Quant-PCDDs ppb

	Cl ₁	Cl ₂	Cl ₃	Cl ₄	Cl ₅	Cl ₆	Cl ₇	Cl ₈		Recovery % ¹³ C-TCDD		
SANTOPHEN-1 UT-410	5.6	<15	<18	ND	ND	ND	ND	ND		87		
SANTOPHEN-2 (Rep) UT-411	3.1	<9	<4.6	ND	ND	ND	ND	ND		76		
BLANK UT-414	ND	ND	ND	ND	ND	ND	ND	ND		91		
Det Limit	1	1	1	1	1	1	1	1		-		
Spike	2.5	2.5	2.7	2.0	2.4	2.3	2.5	2.0		-		
UT-412	6.2	16	2.4	2.4	1.4	2.1	1.7	1.2		73		
Recovery %	74	-	89	83	58	91	68	60		-		
Spike	25	25	27	20	24	23	25	20		-		
UT-413	63	28	34	17	20	20	18	17		88		
Recovery %	-	64	126	85	83	87	72	85		-		

CONFIDENTIAL

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