

G lhf#qmfwrq#
P hkrgræj | #yld#
OF OP V2P V

Q If#Jdvqdnh

Sdfh#Dqdc|wfdg#D Q dwrqde#hqwhu#iru#hwvbj #dqg#qprydwrq

P w#kchw#Whqghvvh



Ryhuyhz

- Iqwurgfxwtrq
- P rwydwtrq
- Edfnj urxqg
- R emfwlyhv#dqg#J rdov
- Iqvwuxp hqwdwtrq/#whfkqrarj lfdq#dqg#
P hwkrq#Dgydqwdj hv
- Dssdfdwtrqv
- Ydgdwtrq
- Uhvxow#dqg#G lfxvtrq
- Vxp p du| #dqg#S rwhqwdq#Dssdfdwtrqv#

Iqwurgfxwlrq

P r w t y d w t r q

 H d p l q d w t r q # r i # z d v w h

 G h f u h d v h g # d q d q | v l v # w t p h

 E h w h u # g d w d

 V w h d p d q h g # s u r f h v w h v

 F d h q w # i r f x v h g

E d f n j u r x q g

- W u d g l w r q d e # H S D # p h w k r g r a r j |
- Z k h u h # e d q # p s u r y h p h q w # e h #
p d g h B
- K r z # g r # w k h v h # l w # q # z l k # r x u #
j r d a B

— R enmfwtyhv

- F undwh#d#p hwkrgrarj | #edv#kdw#dorz v#iru
-

- Idw#dqdd vlv
- Suhflvh#dqg#dffxudwh#dqdd vlv
- Orz hu#derudwru | #frvw#diwu#q lwd#qyhwp hqw
- Hdv | #h {sdqgde lw}
- U hvxow#kdw#ulyde#dqg#q#p rvw#edvhv#vxusdv#kdw#r i#
wdg lwrqde#p hwkrgrv
- D fk lhyde#dqdd vlv#kdw#p suryhv#rq#Exuhqw#ISD#
p hwkrgrv



Jrdo



Ighqwi | #d#wduwqj #
sr bwp hwkrg

Uhghibh#HSD#
; 484#
Khue lghv



Ighqwi | #kh#
ds sursubwh#
whfkgrarj | #wr# dn#
wklv#srwledn

OF OP V2P V



Olt xlg#Fkurp dwrj uds k | #D
P dvv#Vshfwurp hwu| 2P dvv#
Vshfwurp hwu|

- Dj lhgw#9 7 : 3 #
Wuls d#F xdguxsr d2P V
- Dj lhgw#4 5 < 3 #qibq lw| #I#
OF#v|vhp

Whfkqrørj lfdg#
dgg#P hwkrg#
Dgydqwdj hv

- OF OP V2P V
- Dørz v#iru=
 - G lhfwbqmfwtqrq#D p bjp dg#
suhsdudwtqrq#r i#vdp sdhv
 - Frqv lwhqw#hvxow#
 - Qhduvhdv dnvv#kuxxjksxw
 - Dffxudwh#hvxow#kuxxjk#
dgydqfng#P V2P V#vfdq#
fdsde lwhv
 - P xovs d#Jhdfwtqrq#
P rqwrubj #P UP ,
 - Xqp dwfkhg#p hwkrg#vlp sdfw|

— D s s d f d w t r q

-
- W d u j h w # r i # b q w h u h v w
 - I r q l } d w t r q # p h w k r g # D
H d f w r v s u d | # i r q l } d w t r q
 - V f d q # w | s h # 0 P x o i s d n # J h d f w t r q #
P r q l w r u b j # P U P ,

- Dalapon
- Dicamba
- MCPP
- MCPA
- Dichlorprop
- 2,4-D
- Silvex (2,4,5-TP)
- 2,4,5-T
- 2,4-DB
- Dinoseb



D s s d f d w t r q

V d p s d n #
S u h s d u d w t r q

D q d d v t v

Y dāgdwīrq

- P hwkrg#Y dāgdwīrq#P hdvxuhv
 - Fddeūwīrq
 - P GOv
 - Vdp sdn#frp sdulvrqv
 - SWv

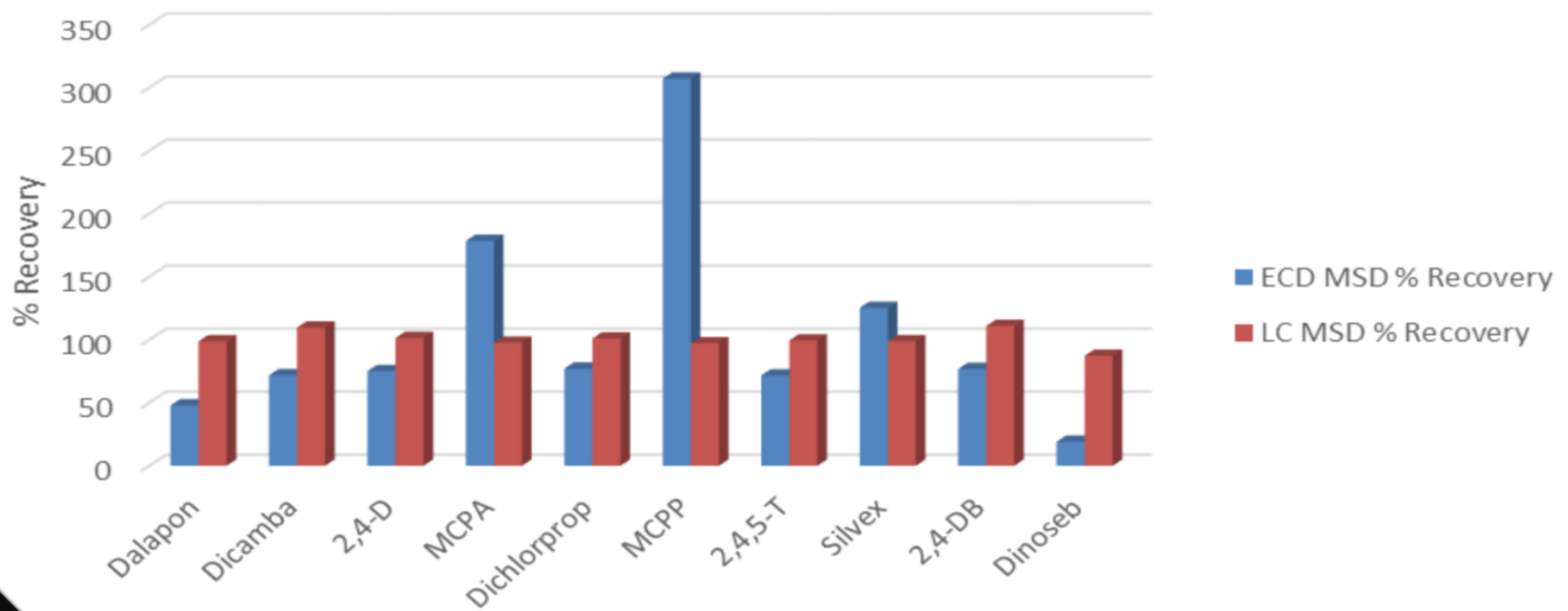


Uhvrow#dqg#G lvfxvvrq

- OFOP V2P V#y#HFG
 - P V2G #Frp sdulvrqv
 - OFV#Frp sdulvrqv
 - SW#Frp sdulvrqv

P V2G #Frp sduvrqv

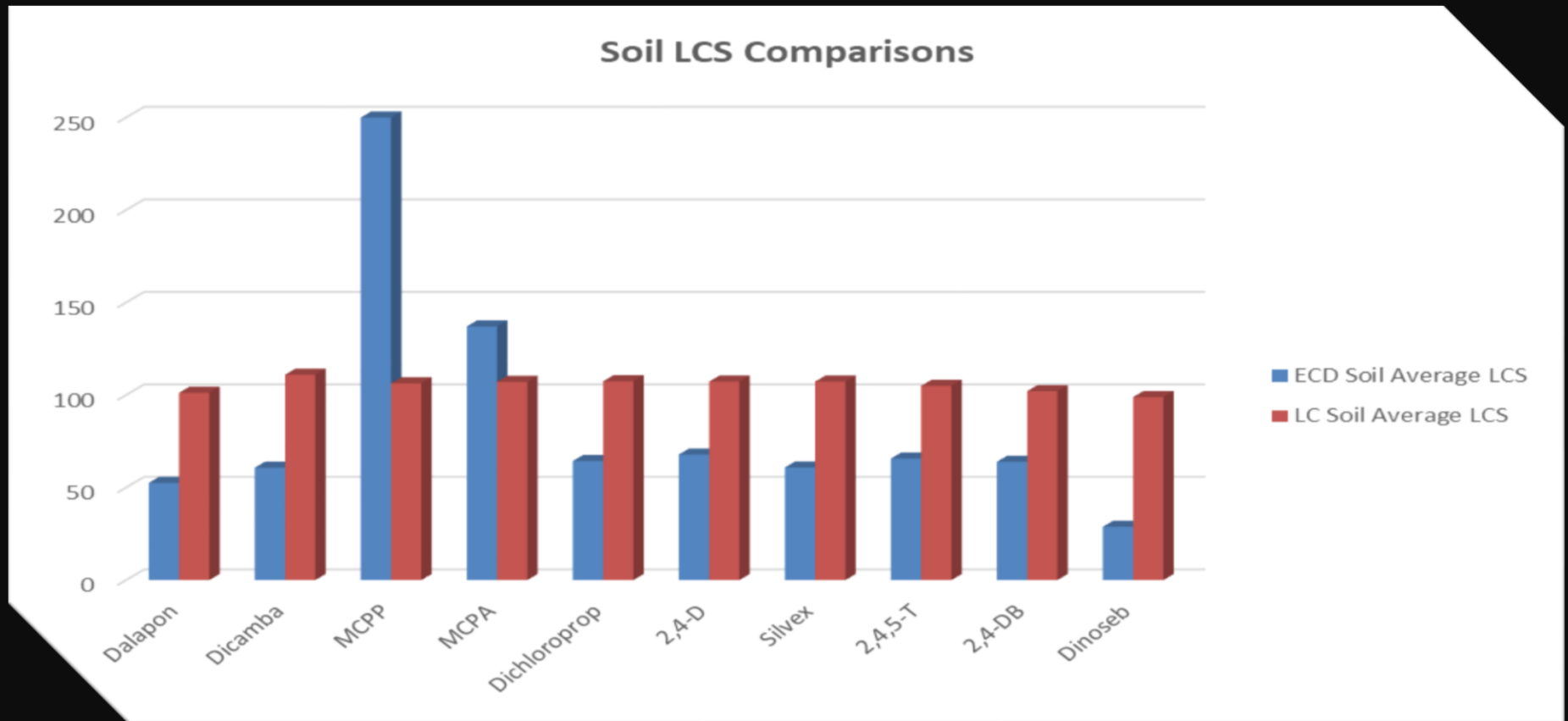
Average MSD Recovery Comparison



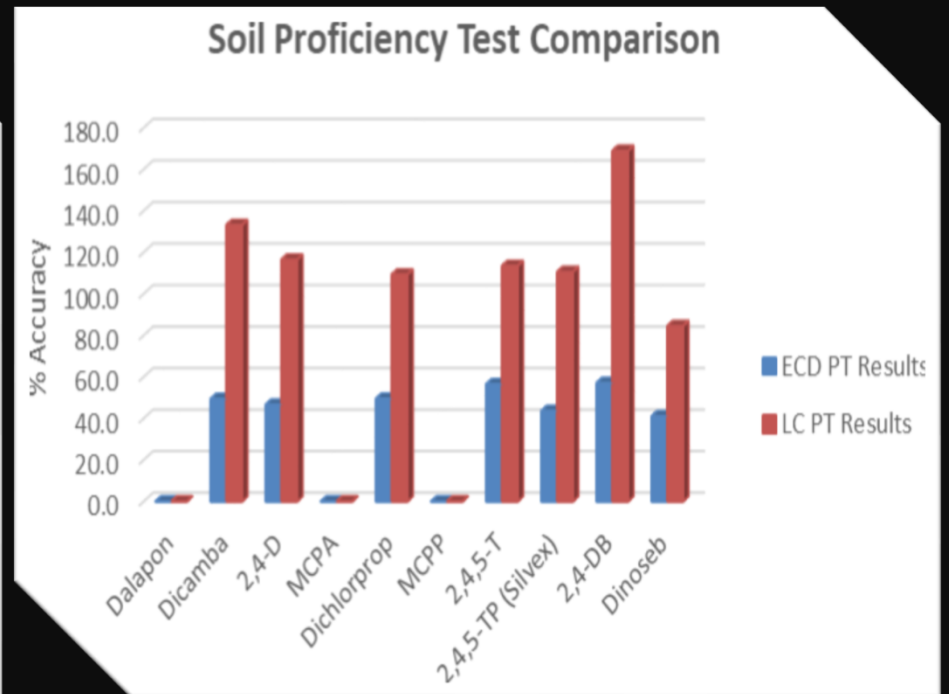
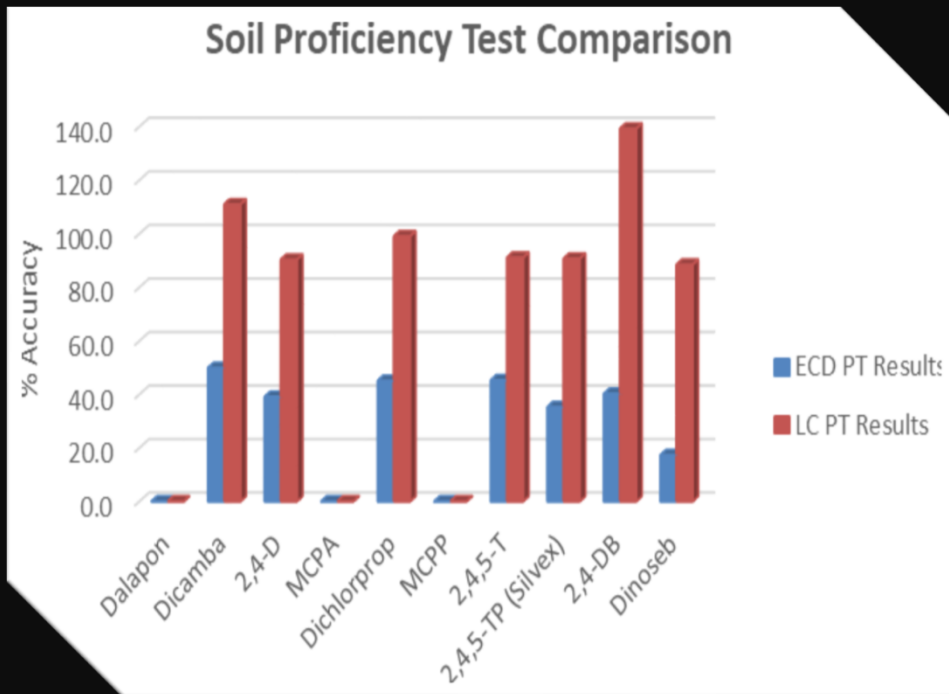
P V2G #F rp sduvrqv

Compound Name	LC-MS/MS				ECD			
	Min MS (%)	Max MS (%)	Min MSD (%)	Max MSD (%)	Min MS (%)	Max MS (%)	Min MSD (%)	Max MSD (%)
<i>Dalapon</i>	95.30	105.30	94.90	103.60	18.4	92.8	61.7	88
<i>Dicamba</i>	92.70	104.50	91.30	115.40	53.7	528	87.4	468
<i>2,4-D</i>	92.30	103.00	91.10	105.90	62.9	85	61.1	88
<i>MCPA</i>	92.50	102.00	90.50	102.10	59.7	112	55	653
<i>Dichlorprop</i>	85.40	138.30	95.10	136.90	61.7	111	59.6	101
<i>MCPP</i>	84.80	91.30	82.90	100.40	5.77	175	7.31	468
<i>2,4,5-T</i>	91.10	91.10	103.20	103.20	61.1	61.1	82.6	82.6
<i>2,4,5-TP (Silvex)</i>	90.50	105.20	95.30	103.00	18.5	65.3	18.4	653
<i>2,4-DB</i>	95.10	115.10	104.50	136.90	58.9	80.2	53.7	101
<i>Dinoseb</i>	78.50	104.80	92.60	105.90	7.31	85.6	34.6	88

OFV2G #F rp sduvrqv



SW#1rp sduvrv



SW#4 #D M dxd | #5 3 5 3 ##### SW#5 #D P dufk #5 3 5 3



Uhxow#dqg#G lfxvwrq

OF OP V2P V#

- P ruh#frqvwhqw#
uhxow
- P ruh#dffxudwh#uhxow
- Vp sdihg#G lhfwh
Iqnhfwtrq
- Ohvv#z dwh

HFG

- Hudwf#hfryhulhv
- G dw#t xdw# frqfhuqv
- Ode ruobwhqvlyh#
h{wdfwtrq
- Oduj h#dp rxqw#r i#
kd}dugrxv#z dwh

Srwhqwdc#Dssdfdwlrqv

RUJDQR SKR VSKDWH#
SHVWIFIGHV

KDORDFHWIF DFIGV

SHQWDFKOR UR SKHQRO

FKORUIQDWHG #
SHVWIFIGHV

SRO\DURP DWIF#
K\GURFDUERQV

SHUFKORUDWHV

Vxp p du|

T xhwlrqv