

US EPA ARCHIVE DOCUMENT

APPENDIX F

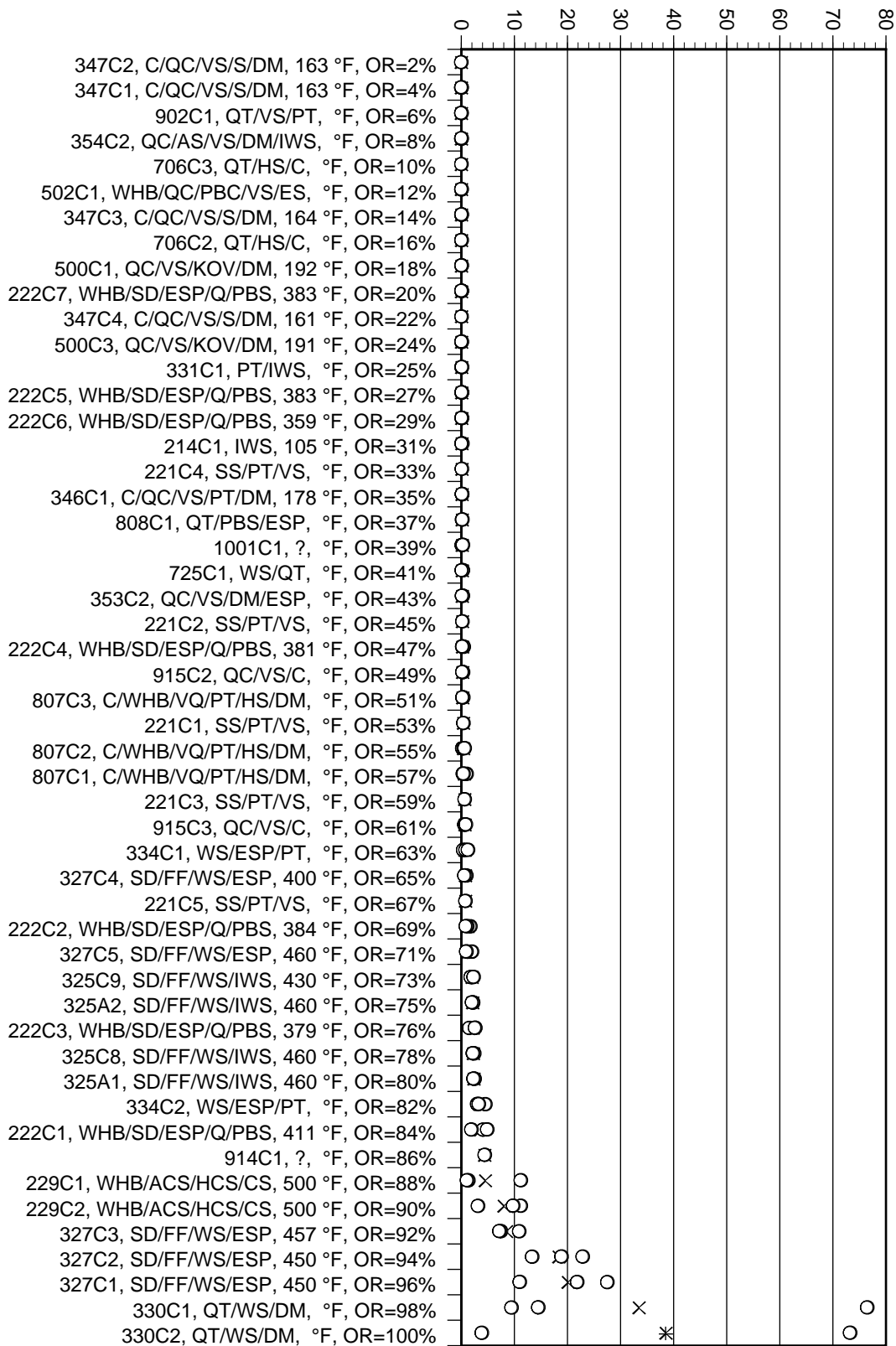
ENTIRE SOURCE CATEGORY AND MACT FLOOR 6% EXPANDED MACT UNIVERSES
 PLOTS BY HAP, SOURCE TYPE, AND CONDITION ID

Following are plots of the entire universe as well as MACT 6% floor expanded universe, for incinerators, cement kilns, and light weight aggregate kiln, for each HAP. They are ranked by condition average. They are arranged in the order of:

- (1) PCDD/PCDF TEQ
 - Incinerators
 - Entire universe
 - 6% MACT floor expanded universe
 - Industrial kilns
 - Entire universe
 - 6% MACT floor expanded universe
- (2) Particulate matter (PM)
 - Incinerators
 - Entire universe
 - 6% MACT floor expanded universe
 - Cement kilns
 - Entire universe
 - 6% MACT floor expanded universe
 - LWAKs
 - Entire universe
 - 6% MACT floor expanded universe
- (3) Mercury (Hg)
 - Incinerators
 - Entire universe
 - 6% MACT floor expanded universe
 - Cement kilns
 - Entire universe
 - 6% MACT floor expanded universe
 - LWAKs
 - Entire universe
 - 6% MACT floor expanded universe
- (4) Semi volatile metals (SVM)
 - Incinerators
 - Entire universe
 - 6% MACT floor expanded universe
 - Cement kilns
 - Entire universe
 - 6% MACT floor expanded universe
 - LWAKs
 - Entire universe
 - 6% MACT floor expanded universe
- (5) Low volatile metals (LVM)
 - Incinerators
 - Entire universe
 - 6% MACT floor expanded universe
 - Cement kilns
 - Entire universe

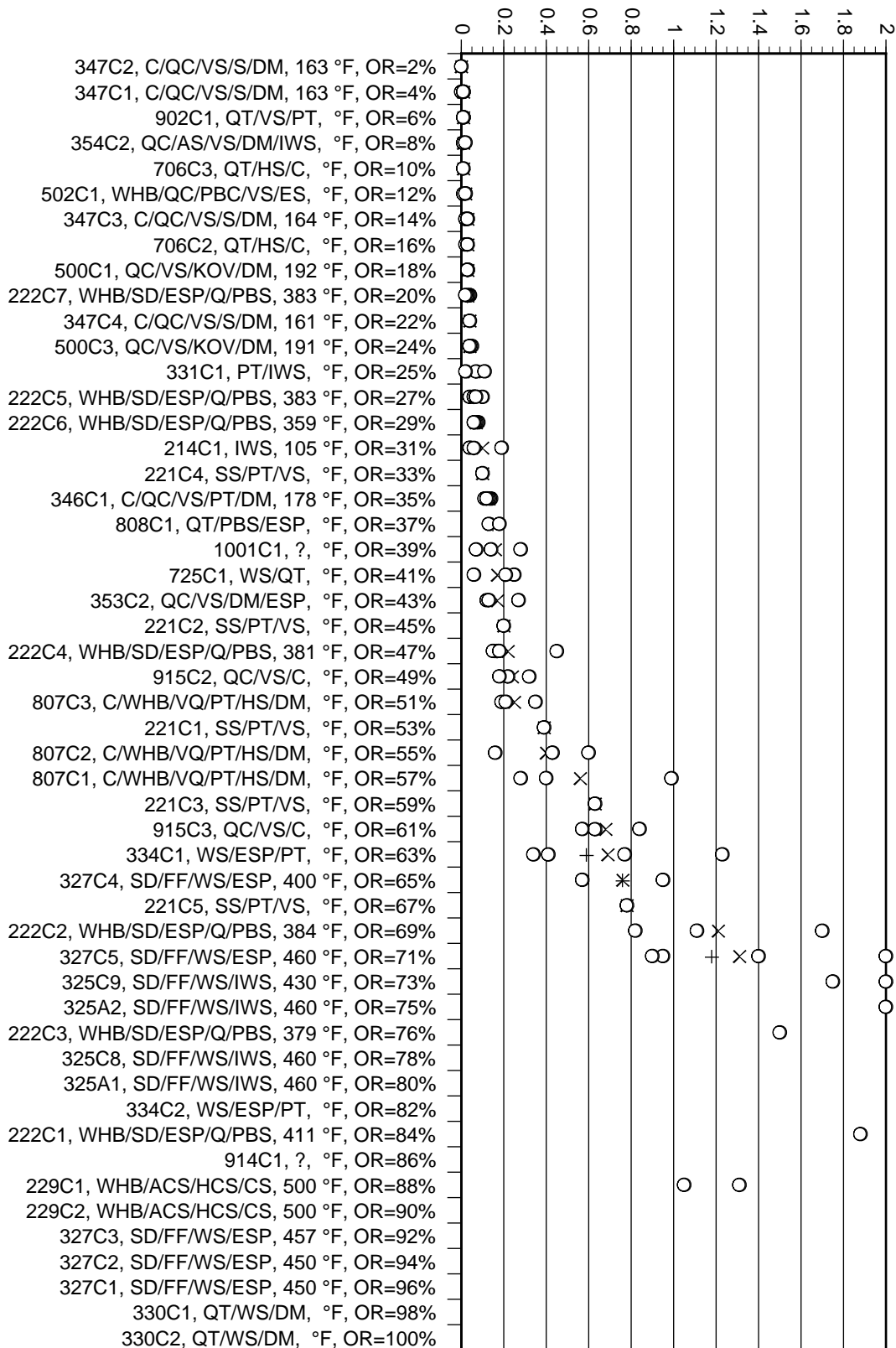
	LWAKs	6% MACT floor expanded universe Entire universe 6% MACT floor expanded universe
(6)	Total chlorine	
	Incinerators	Entire universe 6% MACT floor expanded universe
	Cement kilns	Entire universe 6% MACT floor expanded universe
	LWAKs	Entire universe 6% MACT floor expanded universe
(7)	Hydrocarbons (HC)	
	Incinerators	Entire universe (run average) Entire universe (maximum hourly rolling average)
	Cement kilns (main)	Entire universe (run average) Entire universe (maximum hourly rolling average)
	Cement kilns (bypass)	Entire universe (run average) Entire universe (maximum hourly rolling average)
	LWAKs	Entire universe (run average) Entire universe (maximum hourly rolling average)
(8)	Carbon monoxide (CO)	
	Incinerators	Entire universe (run average) Entire universe (maximum hourly rolling average)
	Cement kilns (main)	Entire universe (run average) Entire universe (maximum hourly rolling average)
	Cement kilns (bypass)	Entire universe (run average) Entire universe (maximum hourly rolling average)
	LWAKs	Entire universe (run average) Entire universe (maximum hourly rolling average)

PCDD/PCDF TEQ (ng/dscm @ 7% O₂)



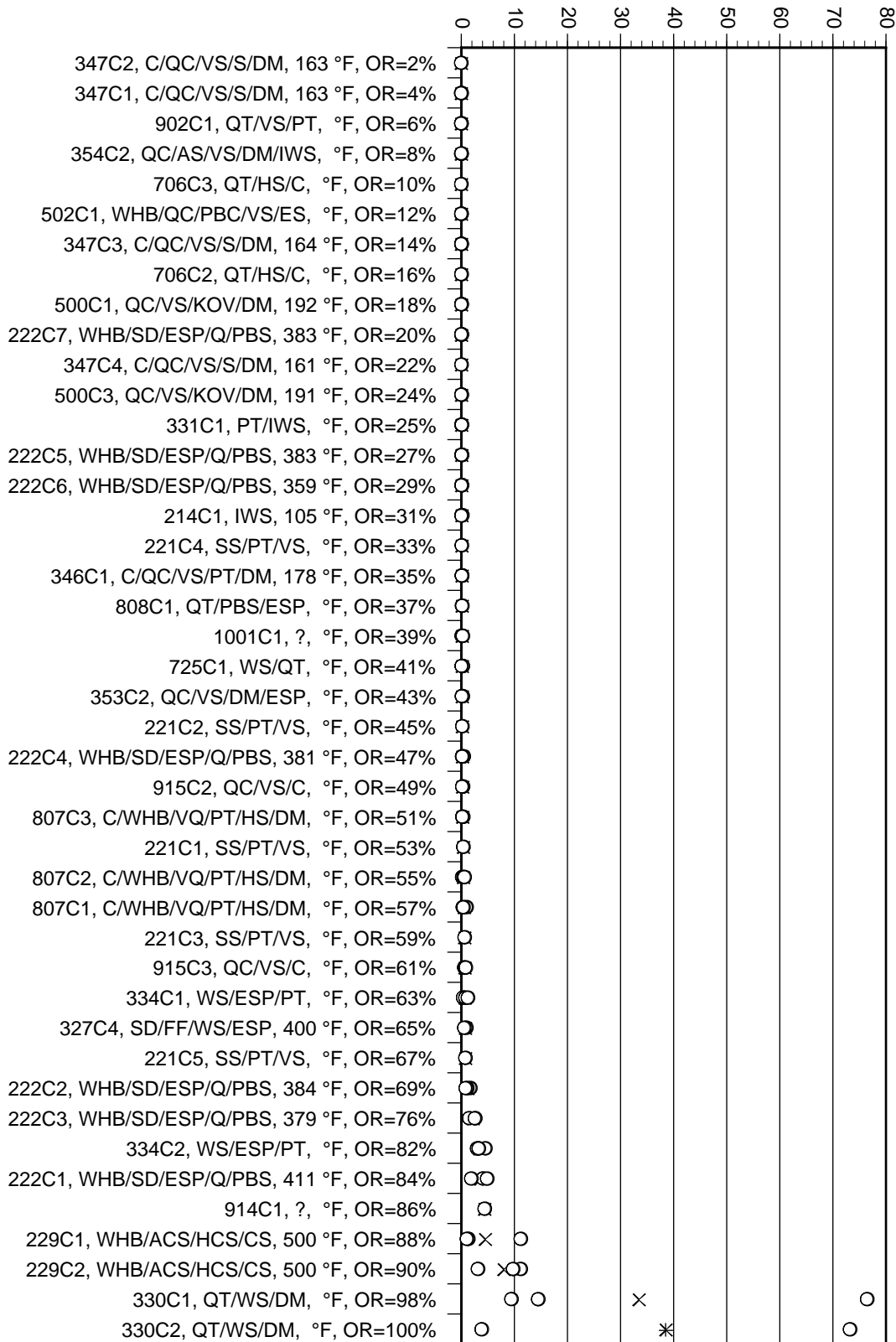
PCDD/PCDF TEQ -- Incinerators -- Entire Universe

PCDD/PCDF TEQ (ng/dscm @ 7% O₂)



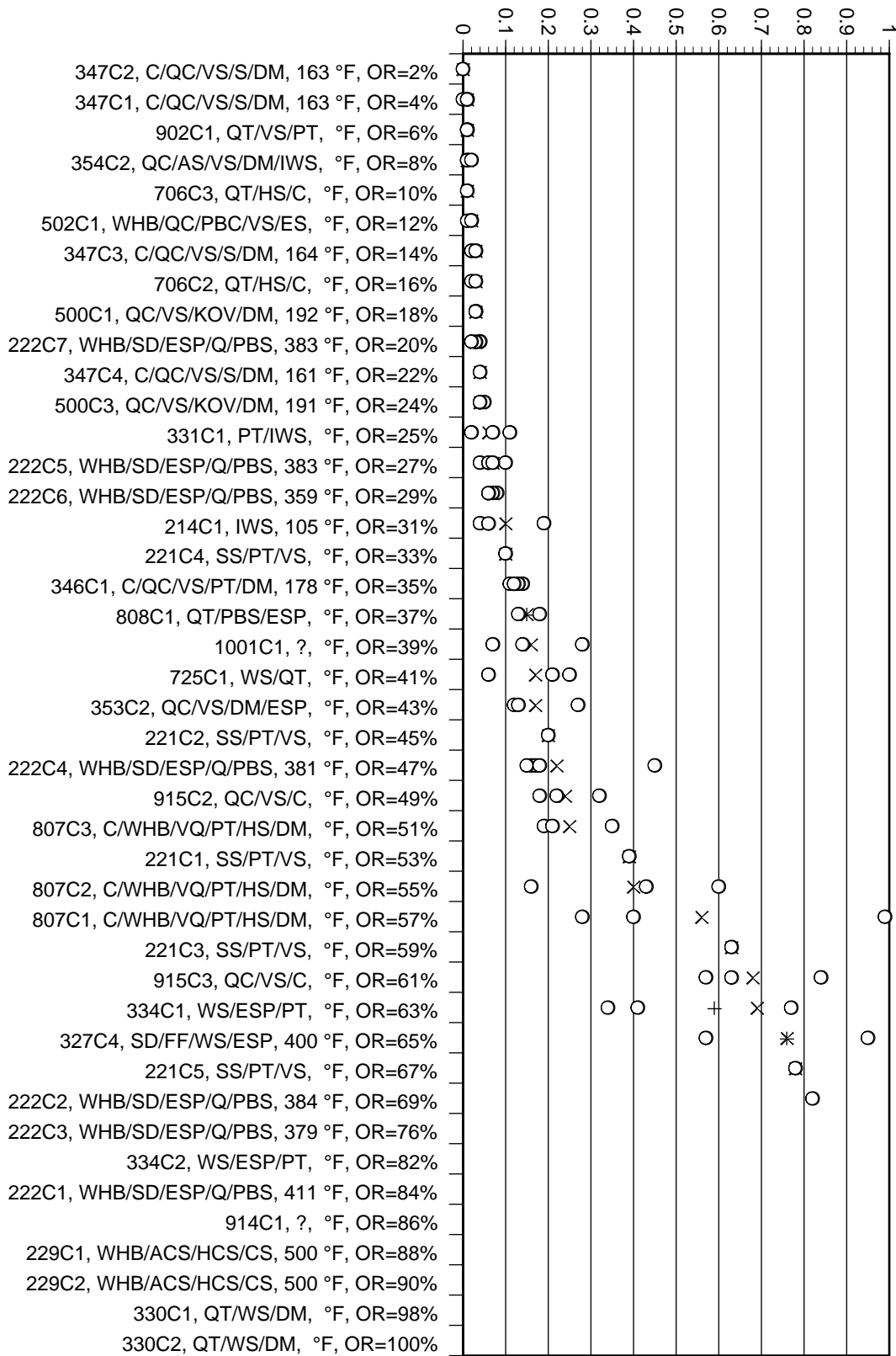
PCDD/PCDF TEQ -- Incinerators -- Entire Universe

PCDD/PCDF TEQ (ng/dscm @ 7% O₂)



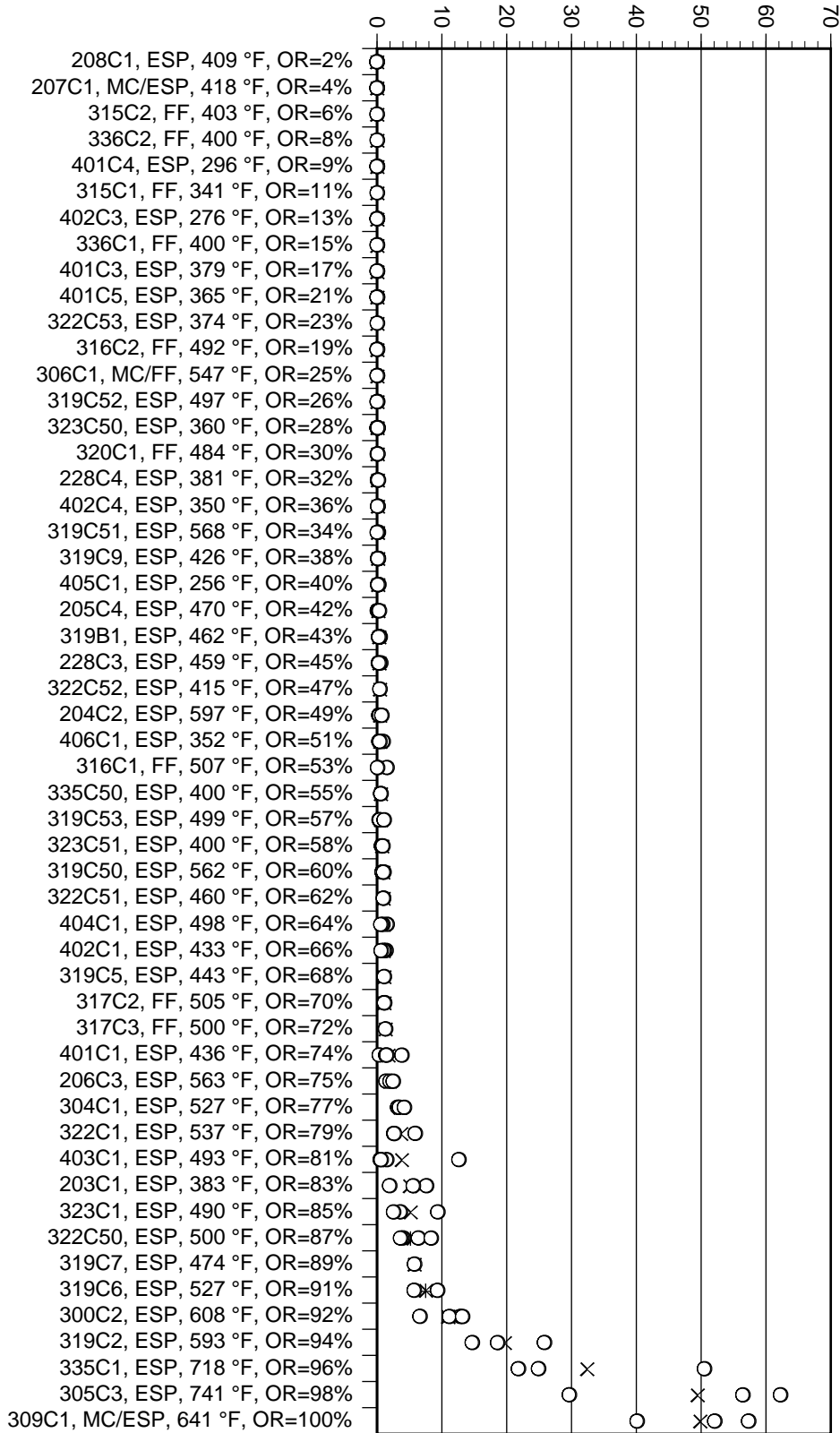
PCDD/PCDF TEQ -- Incinerators -- 6% MACT Expanded Universe

PCDD/PCDF TEQ (ng/dscm @ 7% O₂)



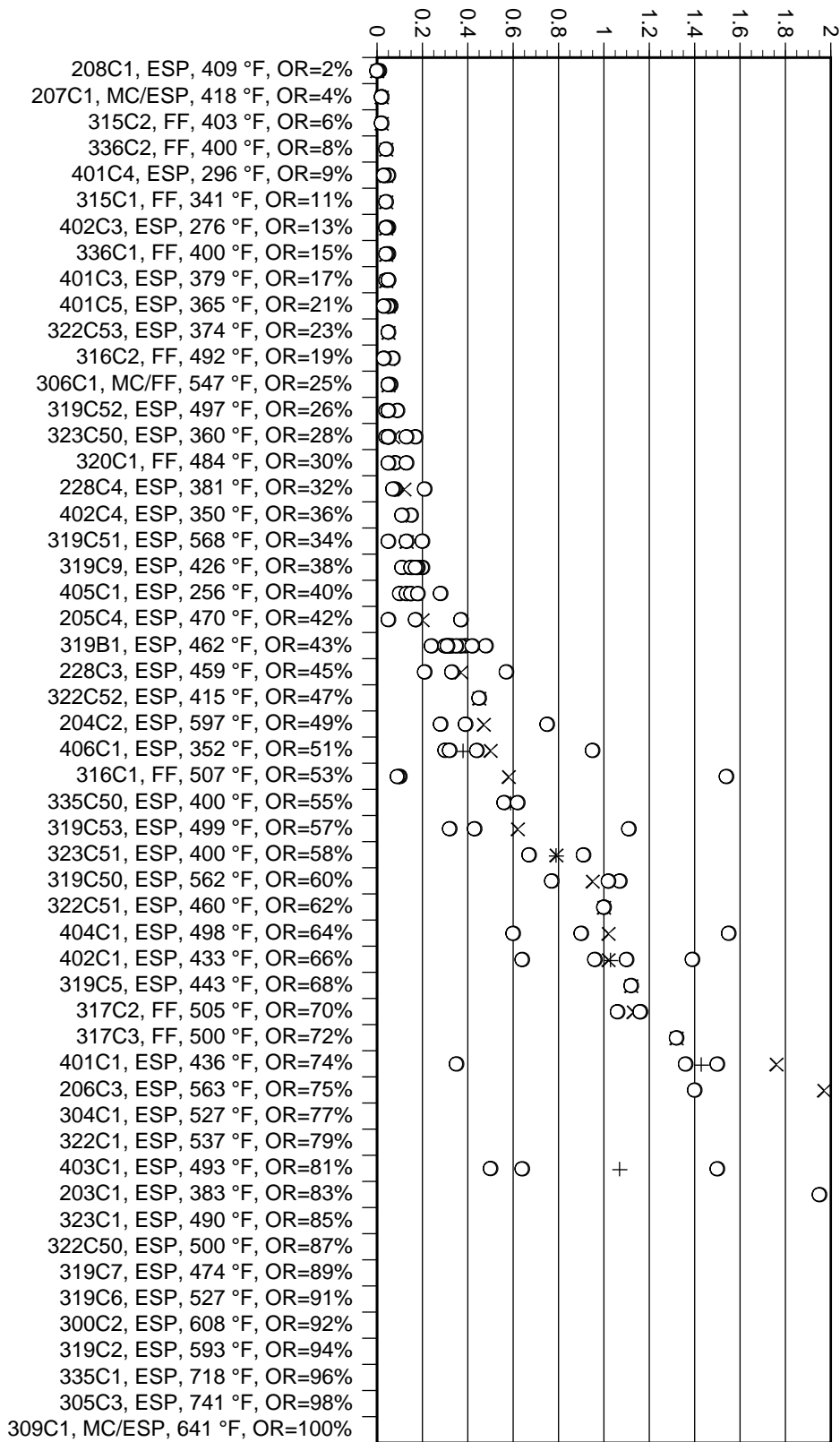
PCDD/PCDF TEQ -- Incinerators -- 6% MACT Expanded Universe

PCDD/PCDF TEQ (ng/dscm @ 7% O₂)

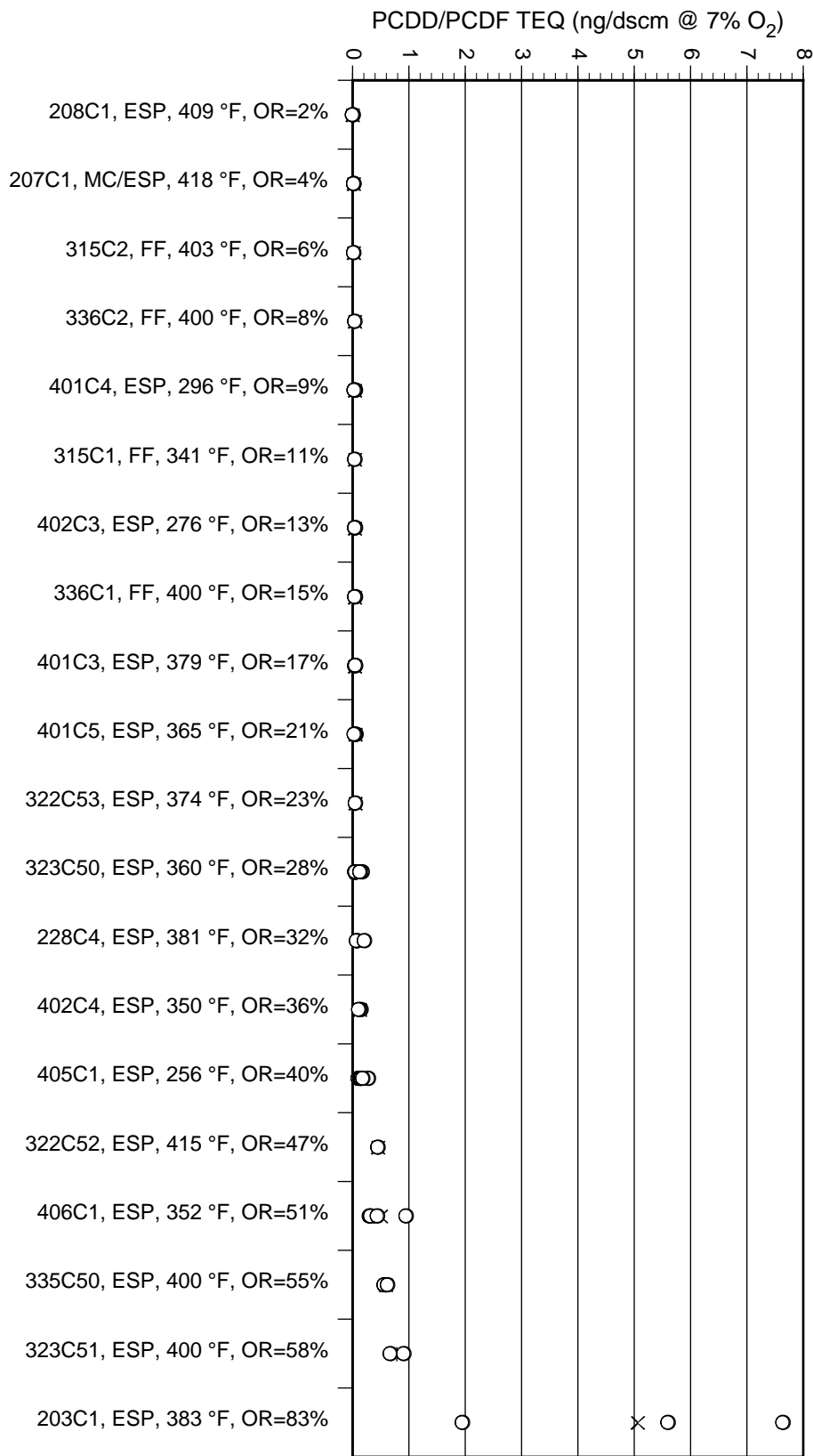


PCDD/PCDF TEQ -- Industrial Kilns -- Entire Universe

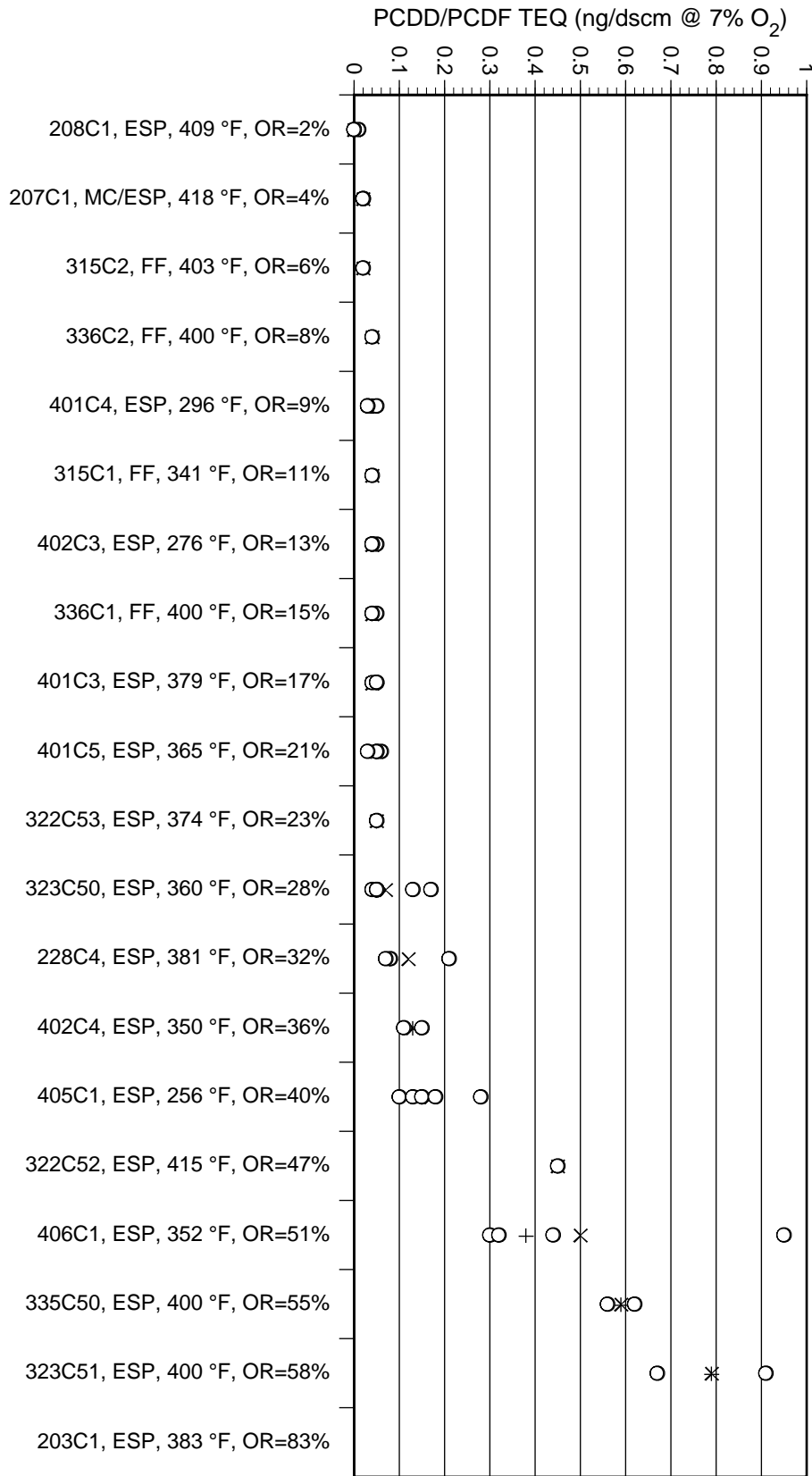
PCDD/PCDF TEQ (ng/dscm @ 7% O₂)



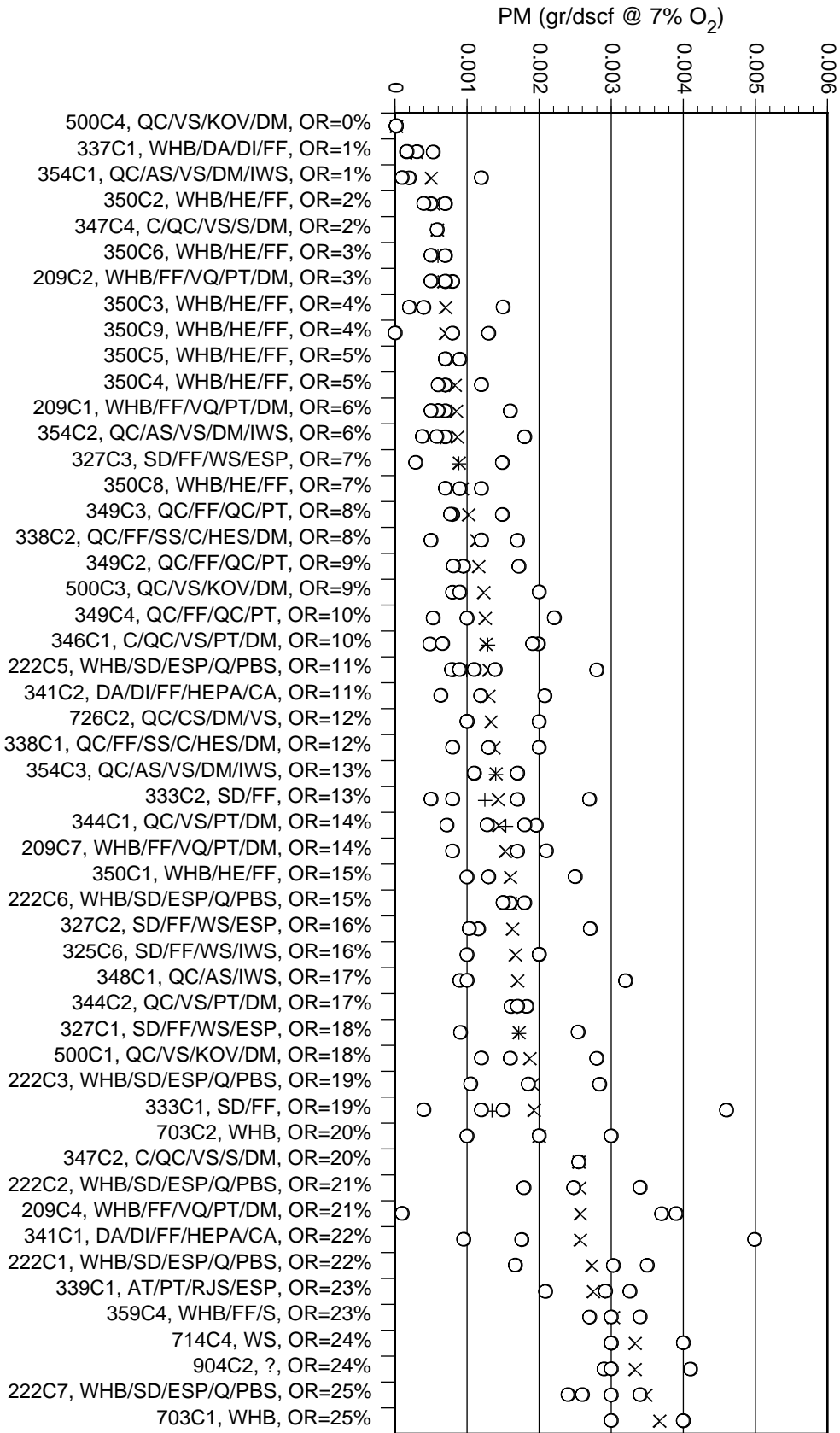
PCDD/PCDF TEQ -- Industrial Kilns -- Entire Universe

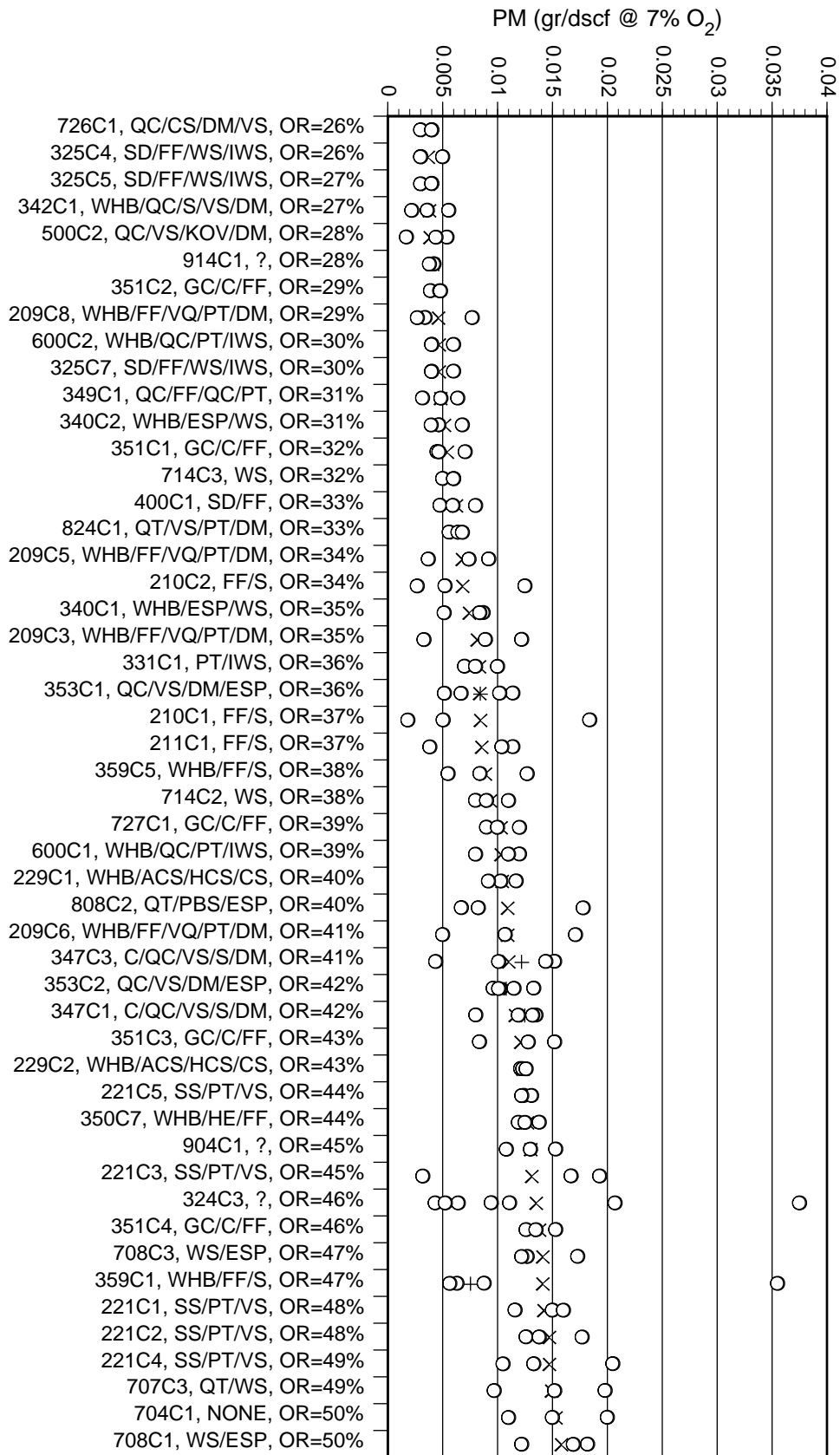


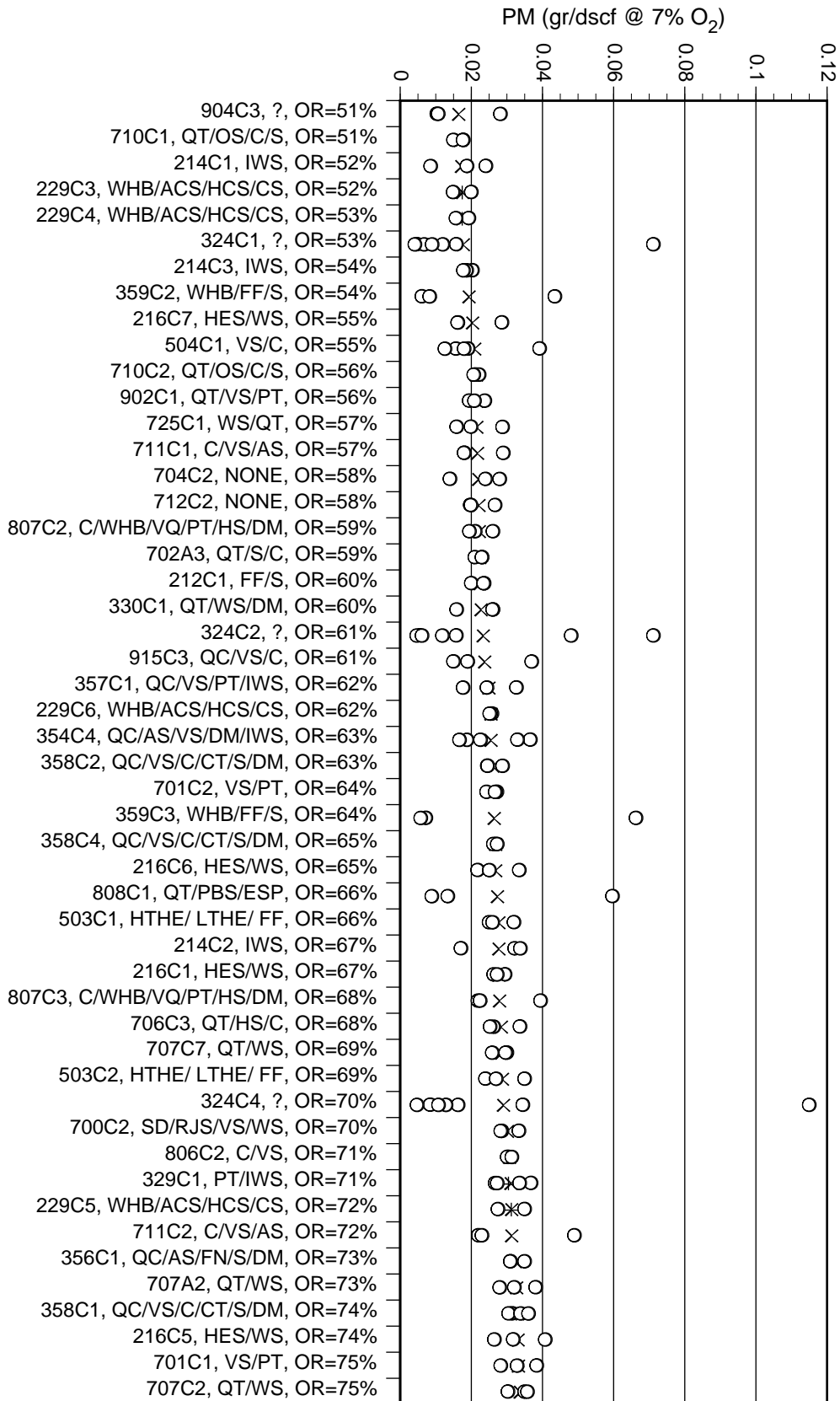
PCDD/PCDF TEQ -- Industrial Kilns -- 6% MACT Expanded Universe

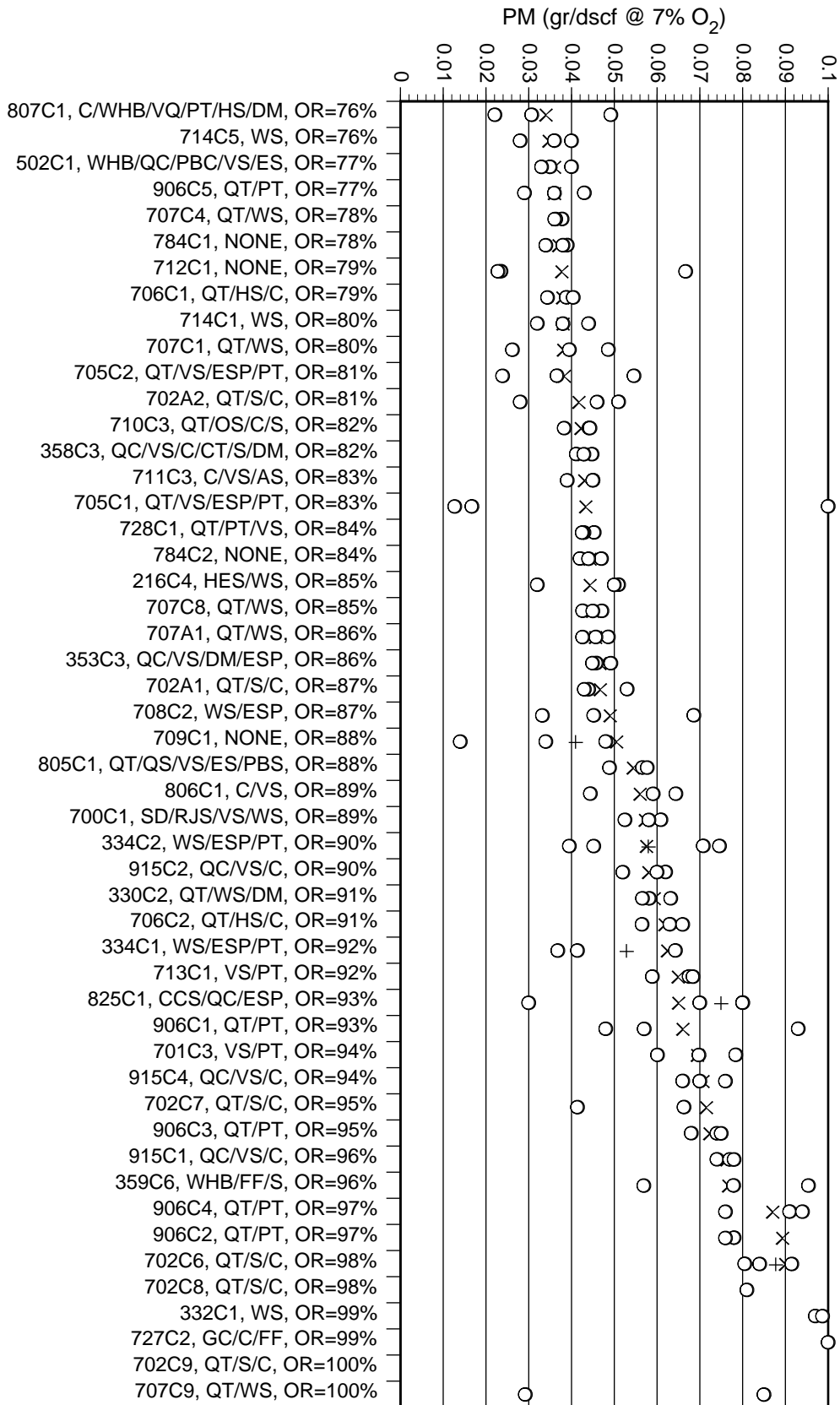


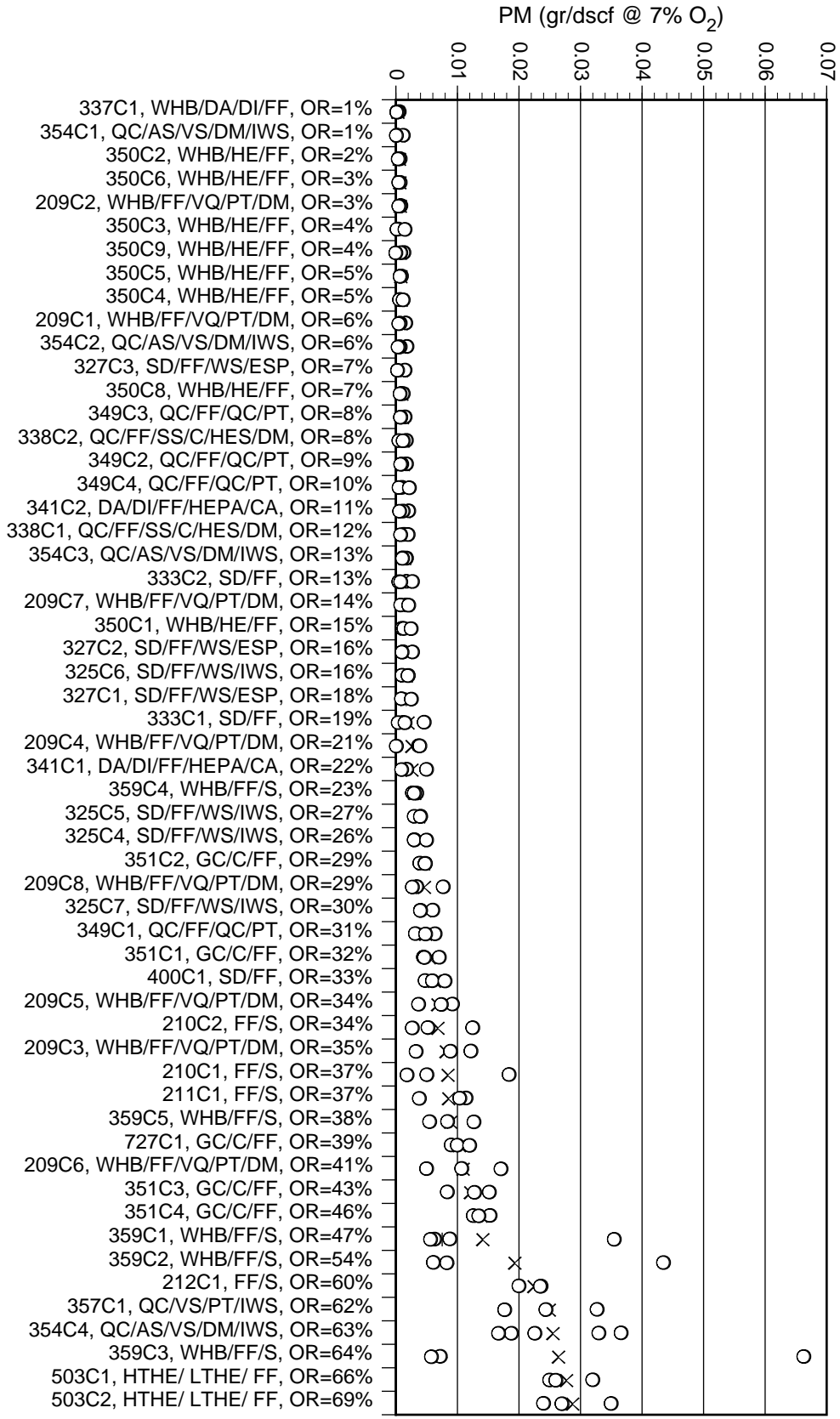
PCDD/PCDF TEQ -- Industrial Kilns -- 6% MACT Expanded Universe



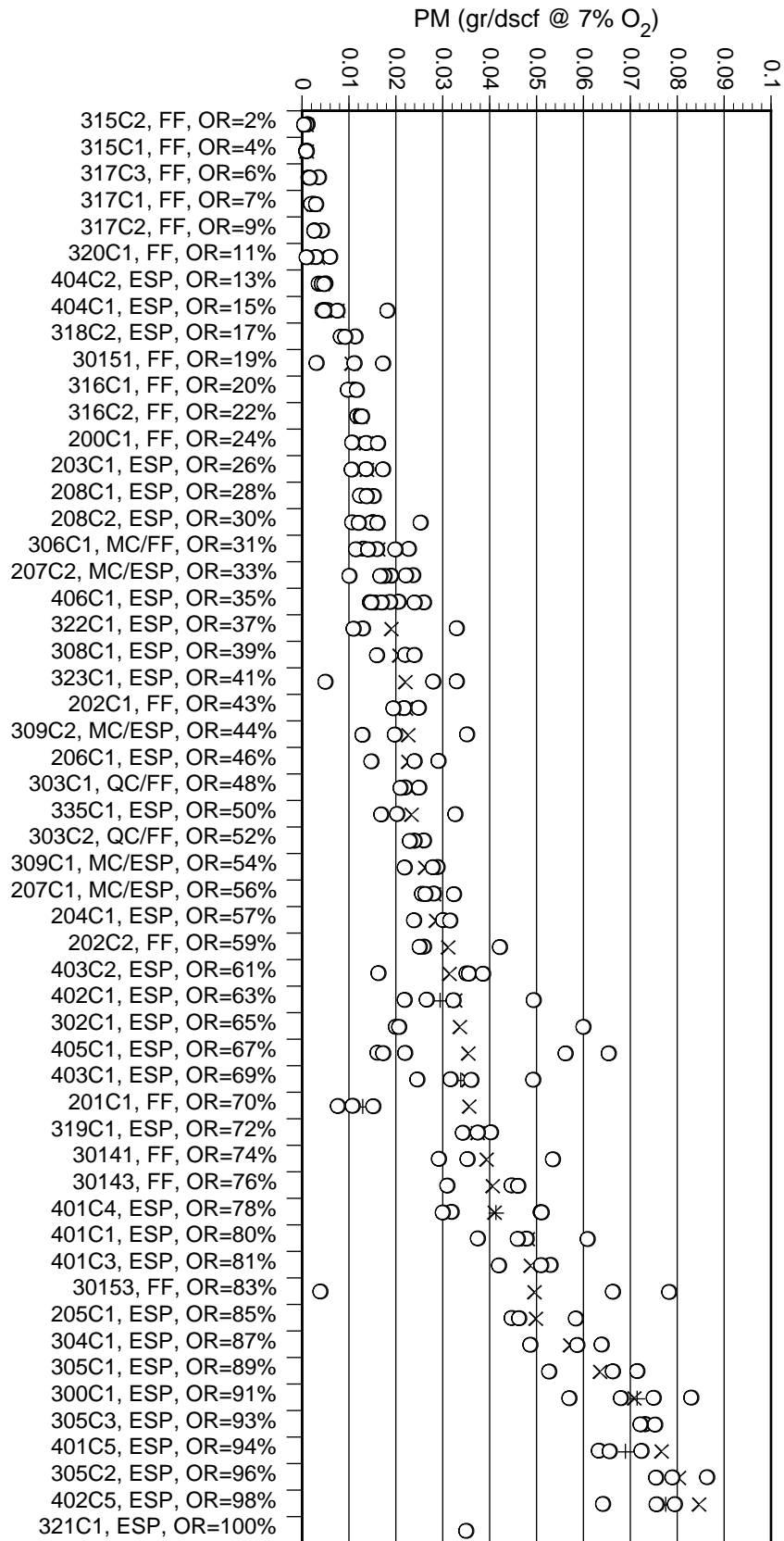




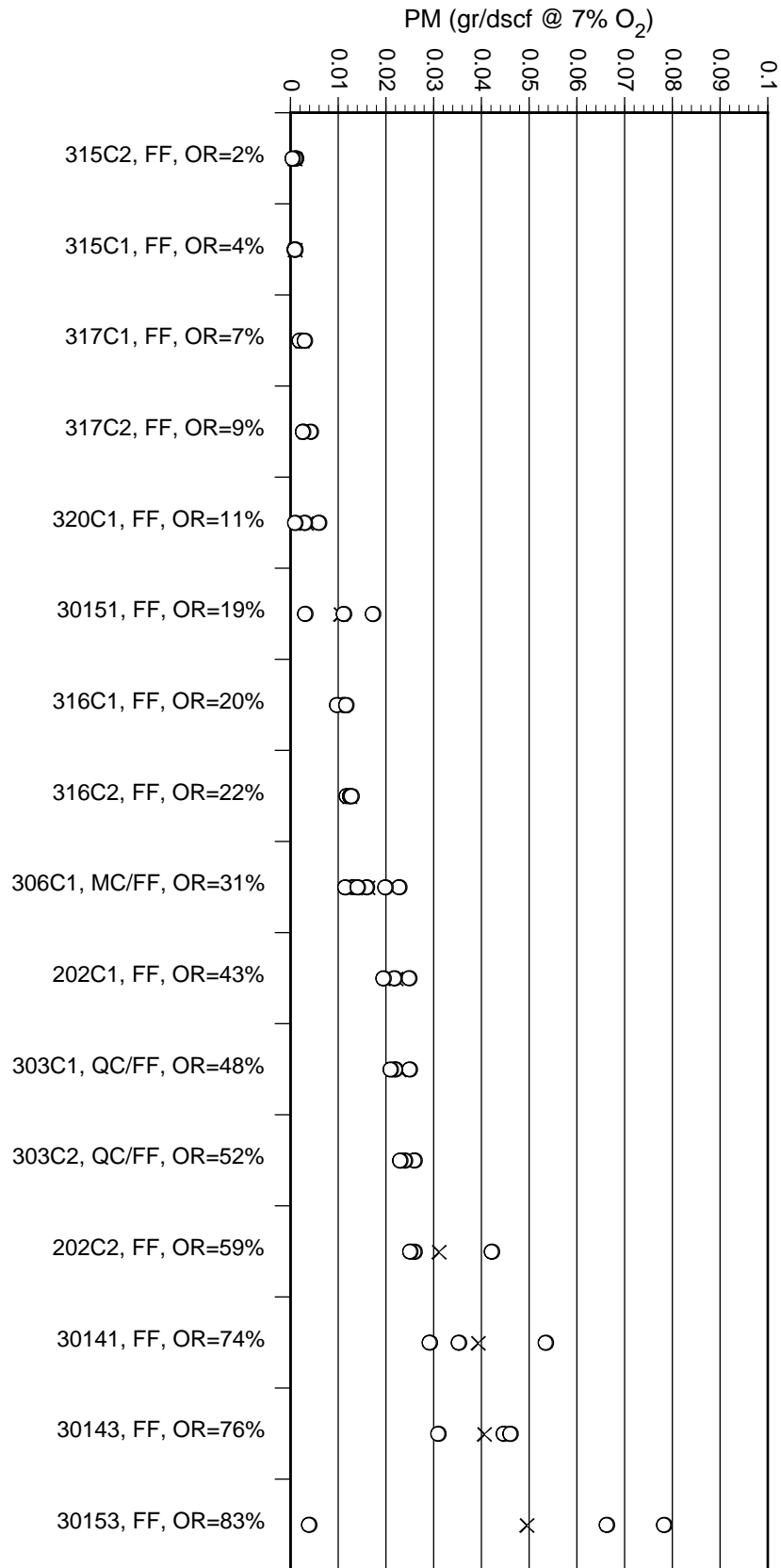




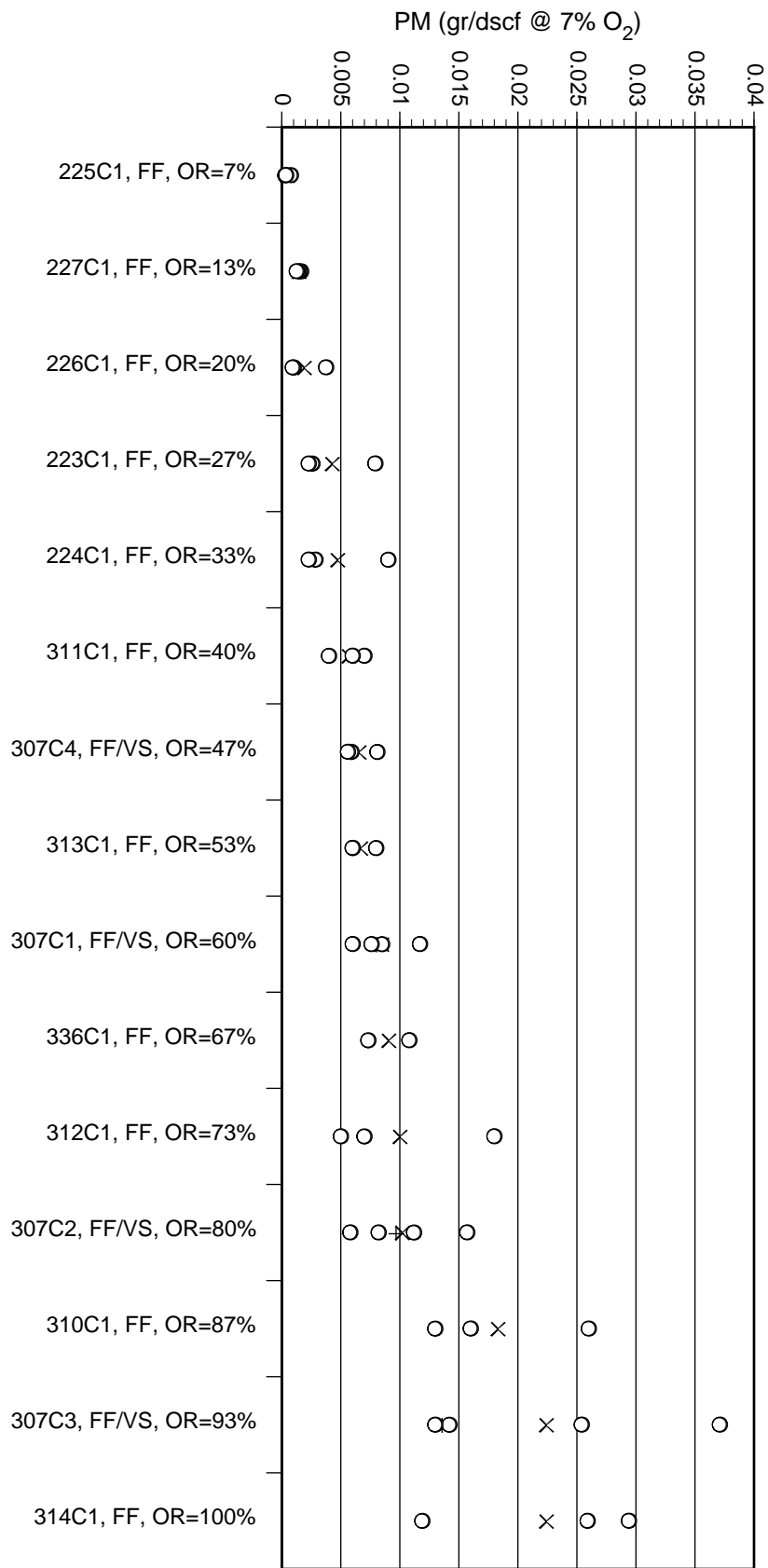
PM -- Incinerators -- 6% MACT Expanded Universe



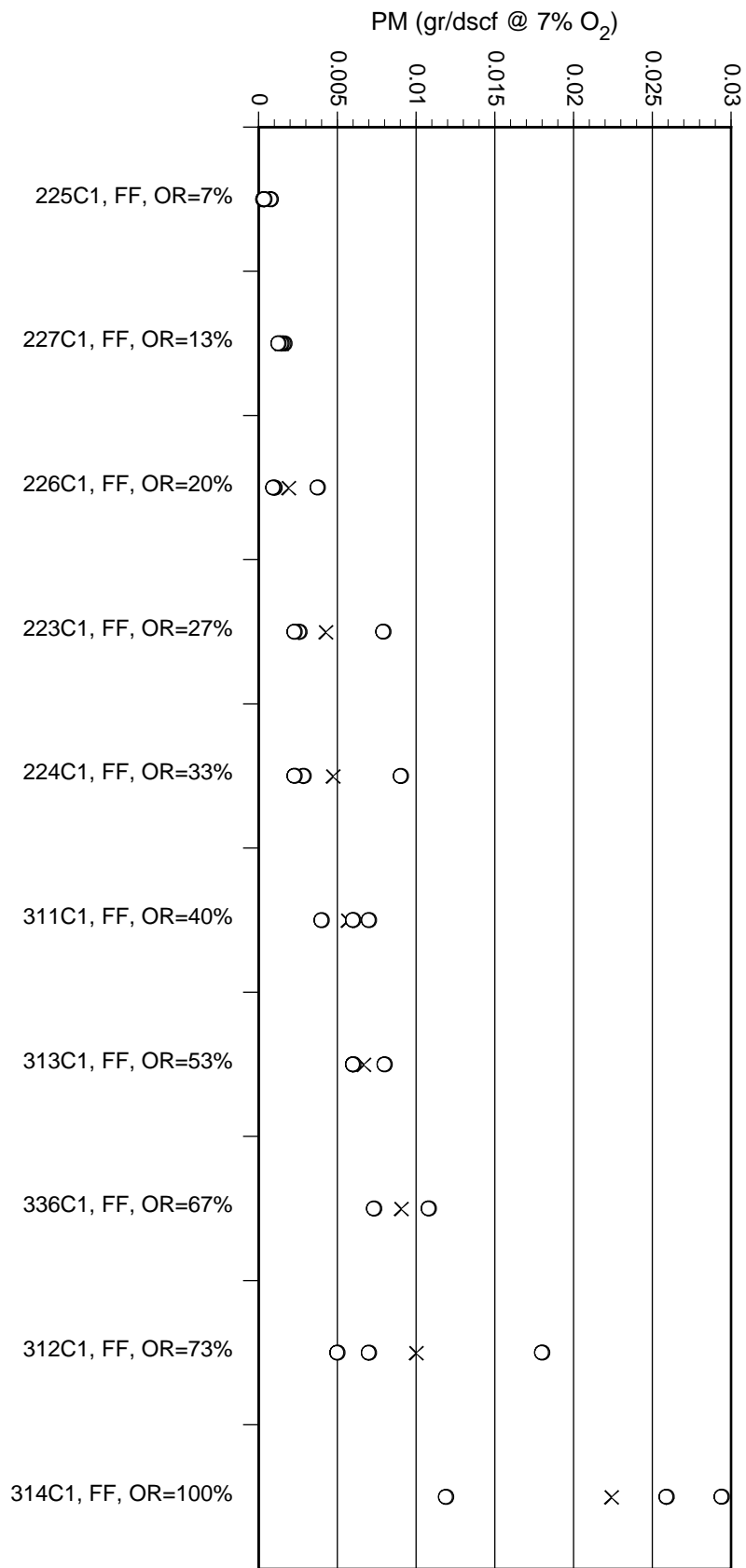
PM -- Cement Kilns -- Entire Universe



PM -- Cement Kilns -- 6% MACT Expanded Universe

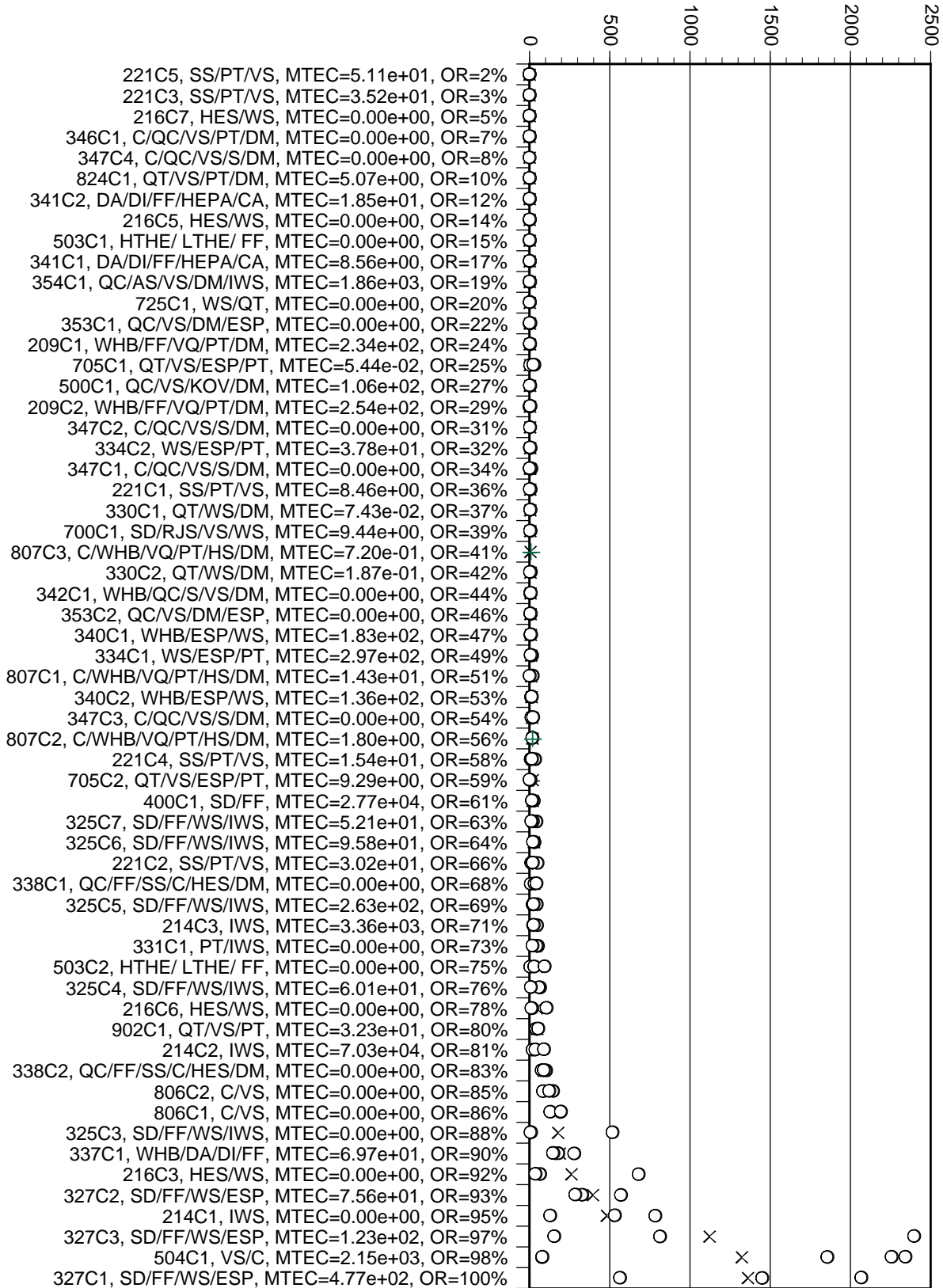


PM -- LWAKs -- Entire Universe

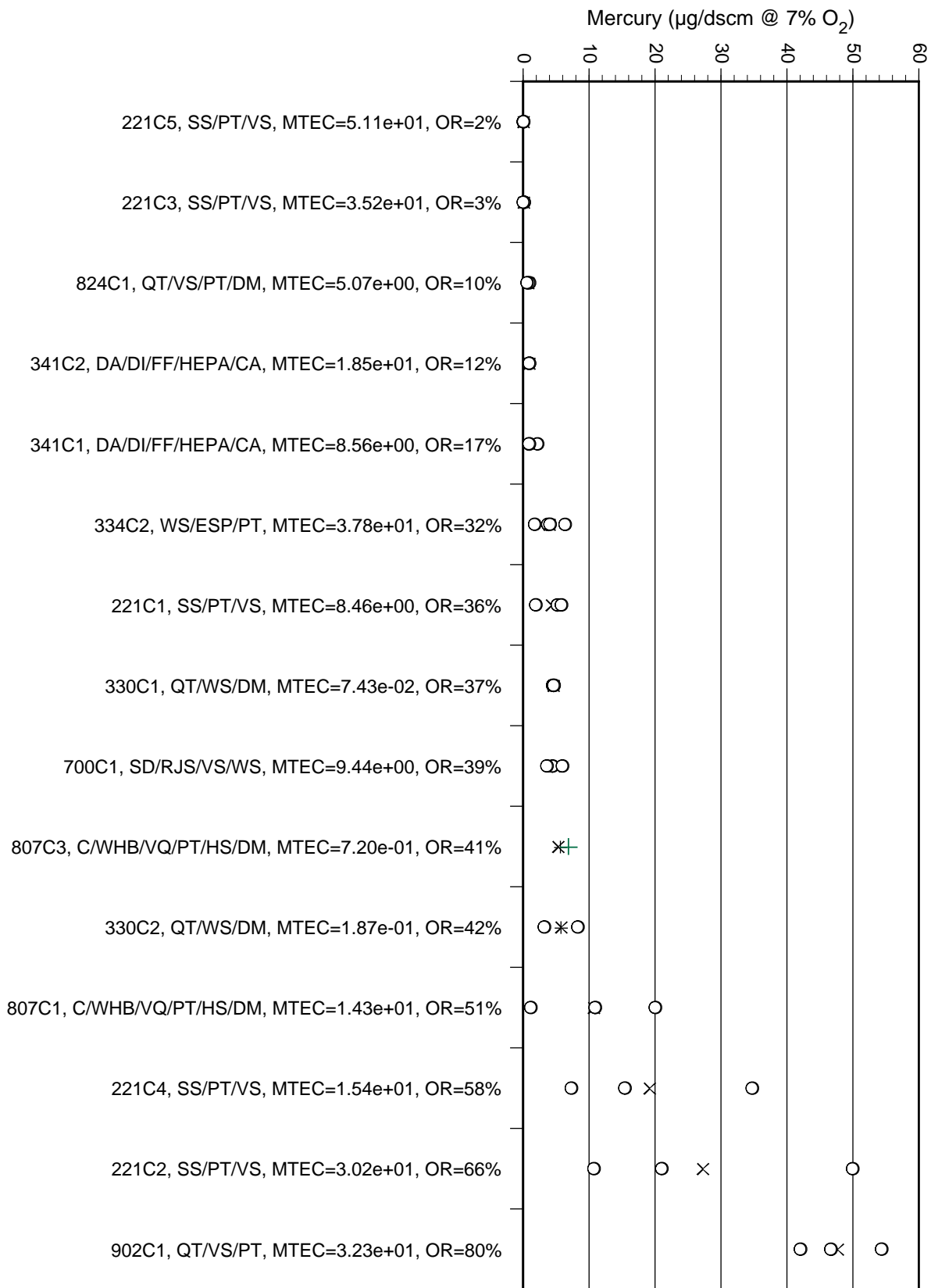


PM -- LWAKS -- 6% MACT Expanded Universe

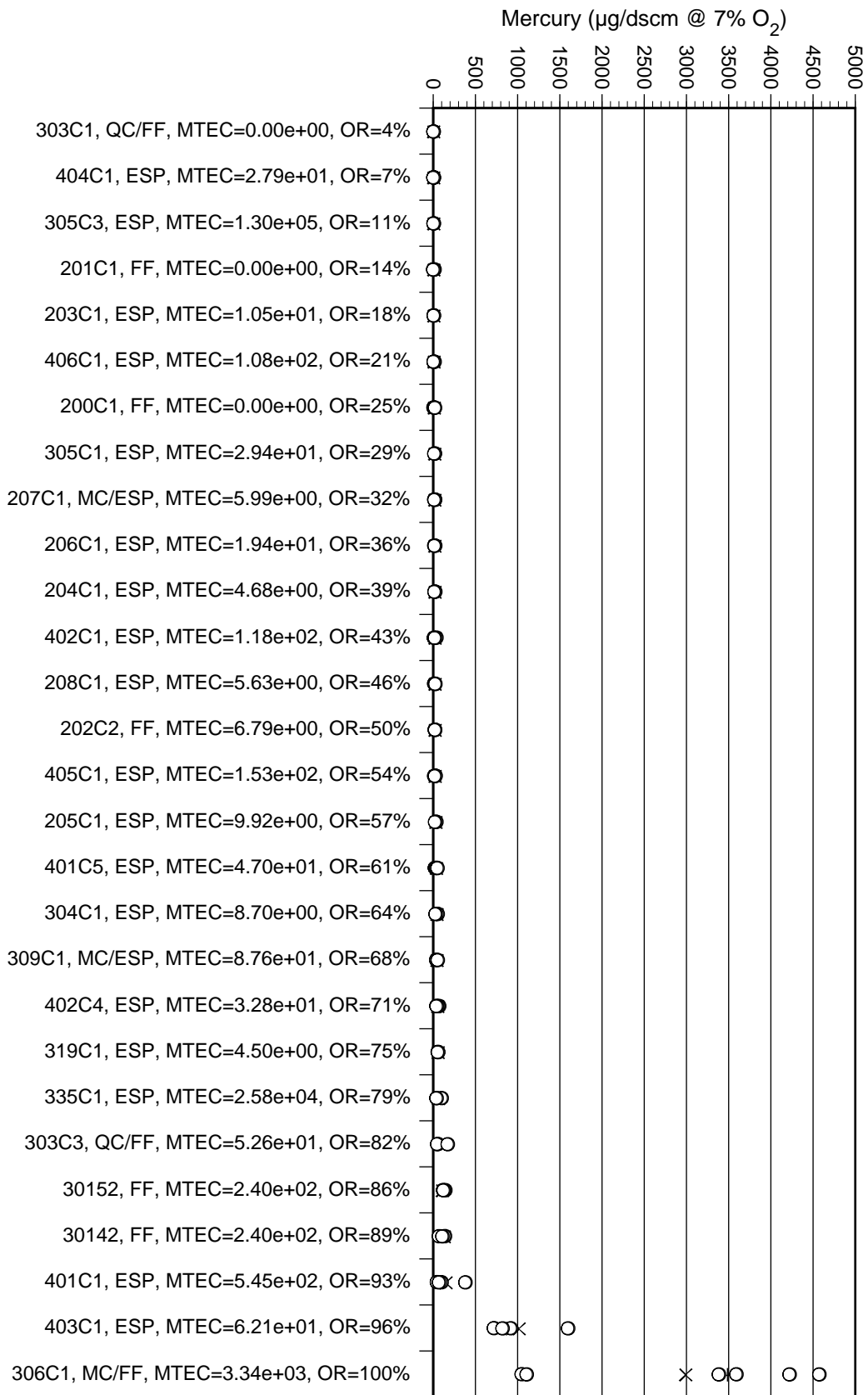
Mercury ($\mu\text{g}/\text{dscm}$ @ 7% O_2)



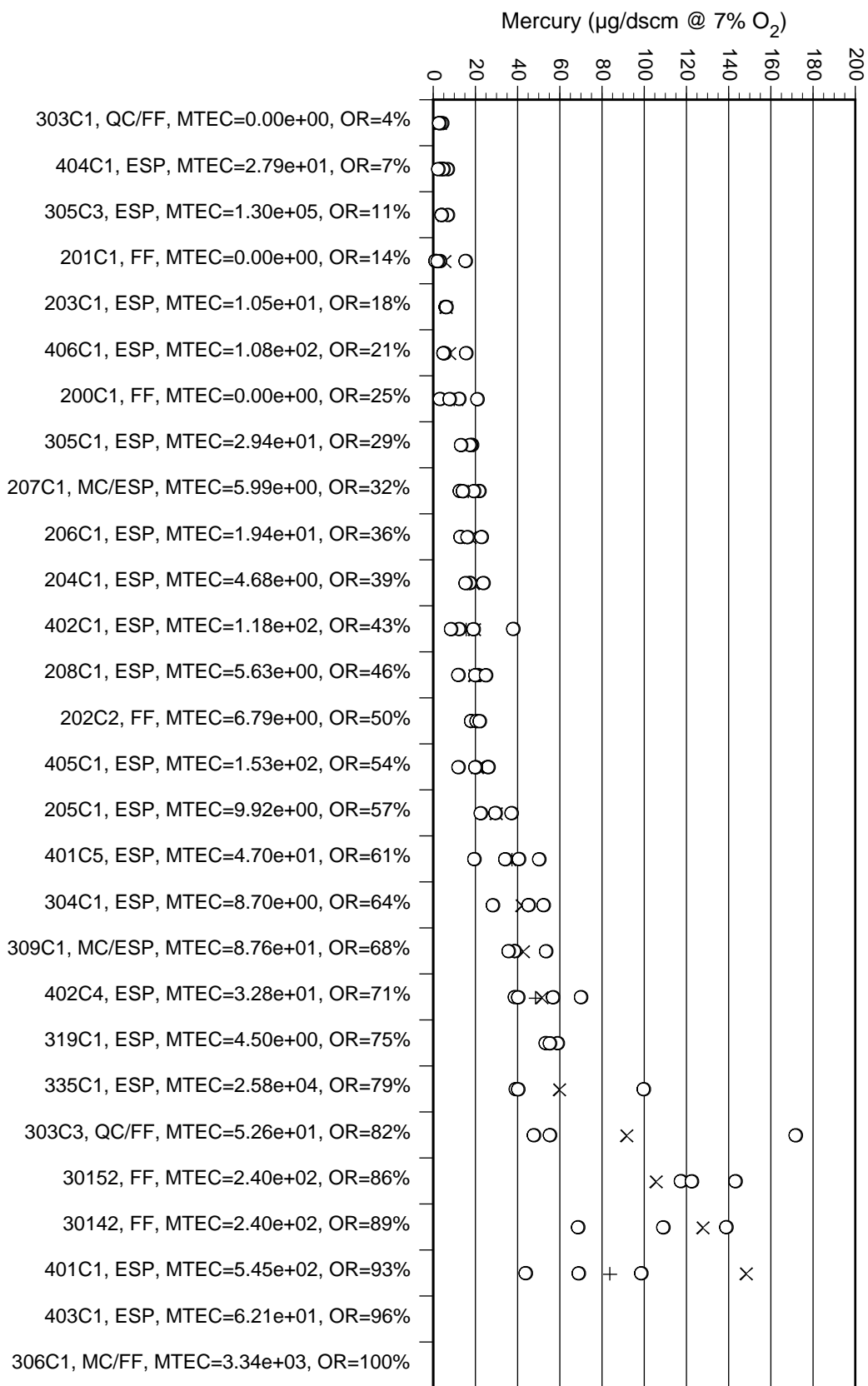
Mercury -- Incinerators -- Entire Universe



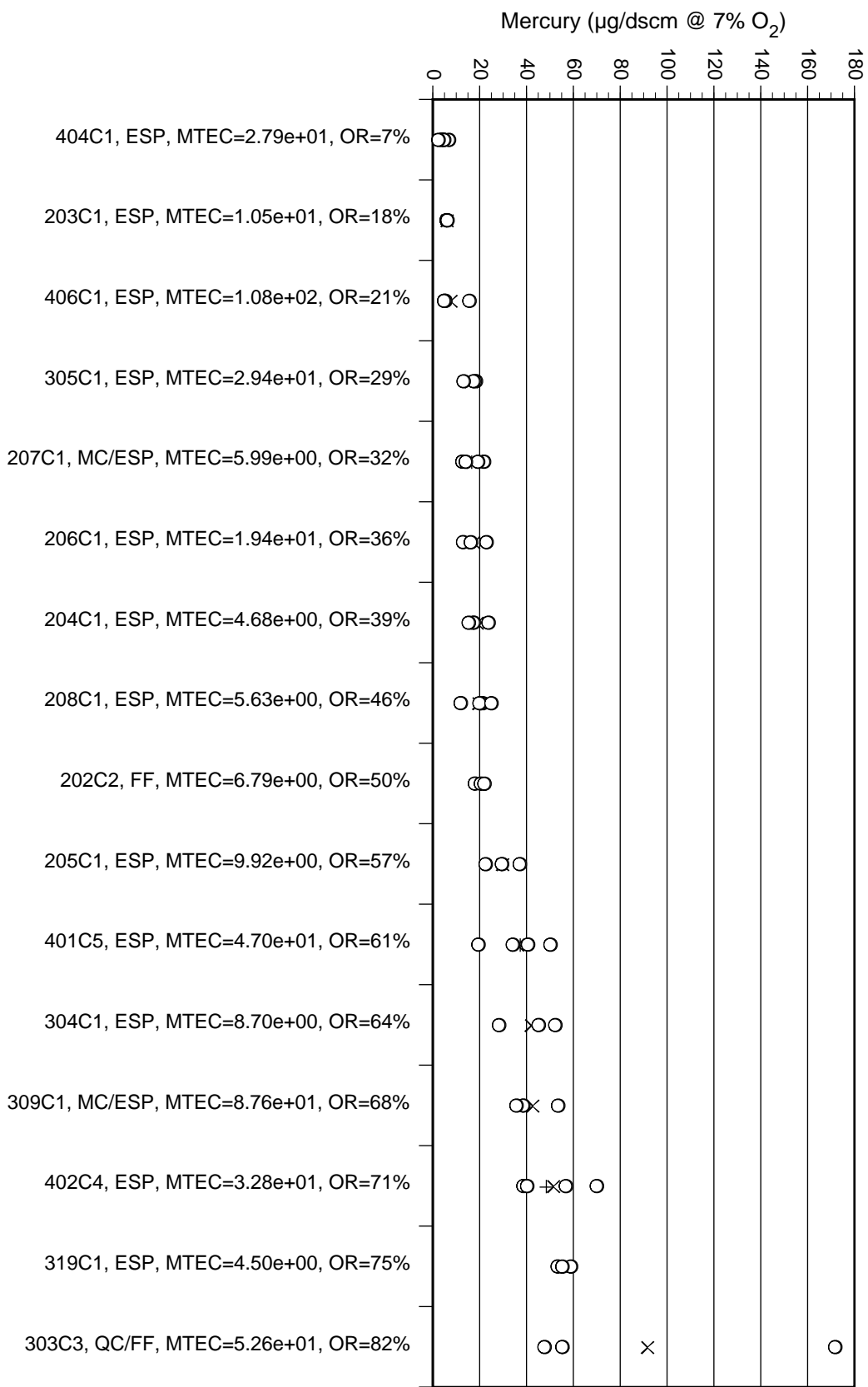
Mercury -- Incinerators -- 6% MACT Expanded Universe



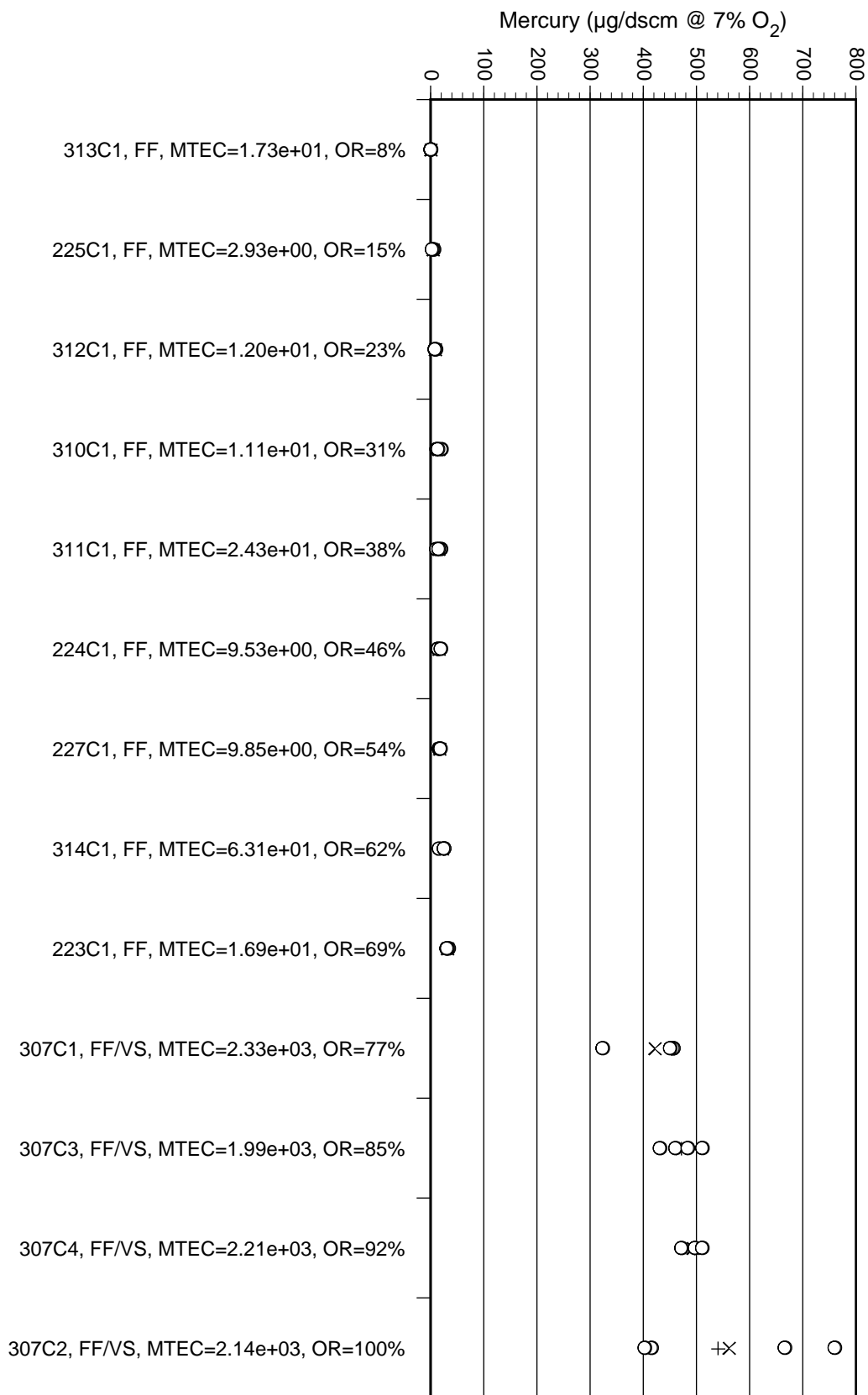
Mercury -- Cement Kilns -- Entire Universe



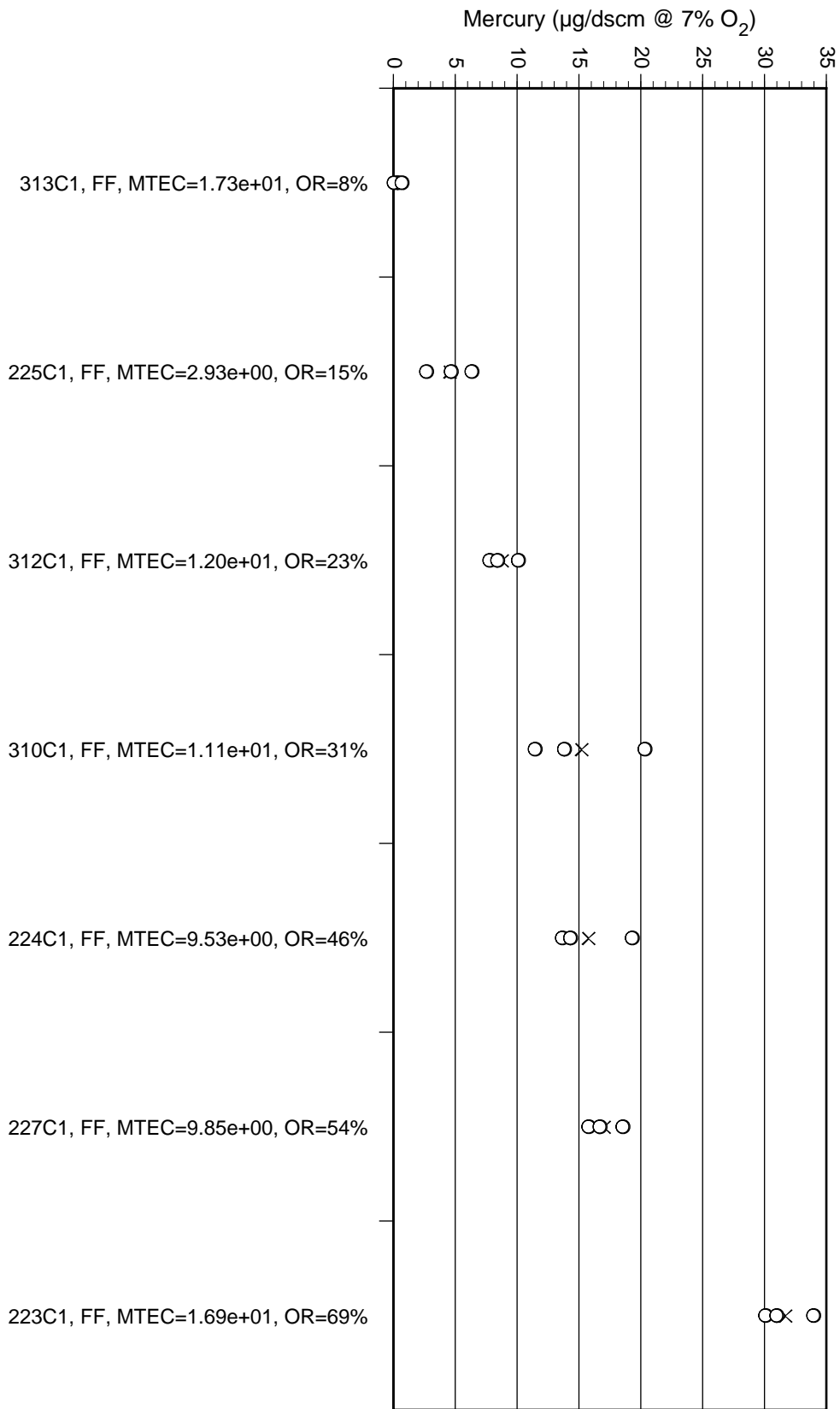
Mercury -- Cement Kilns -- Entire Universe



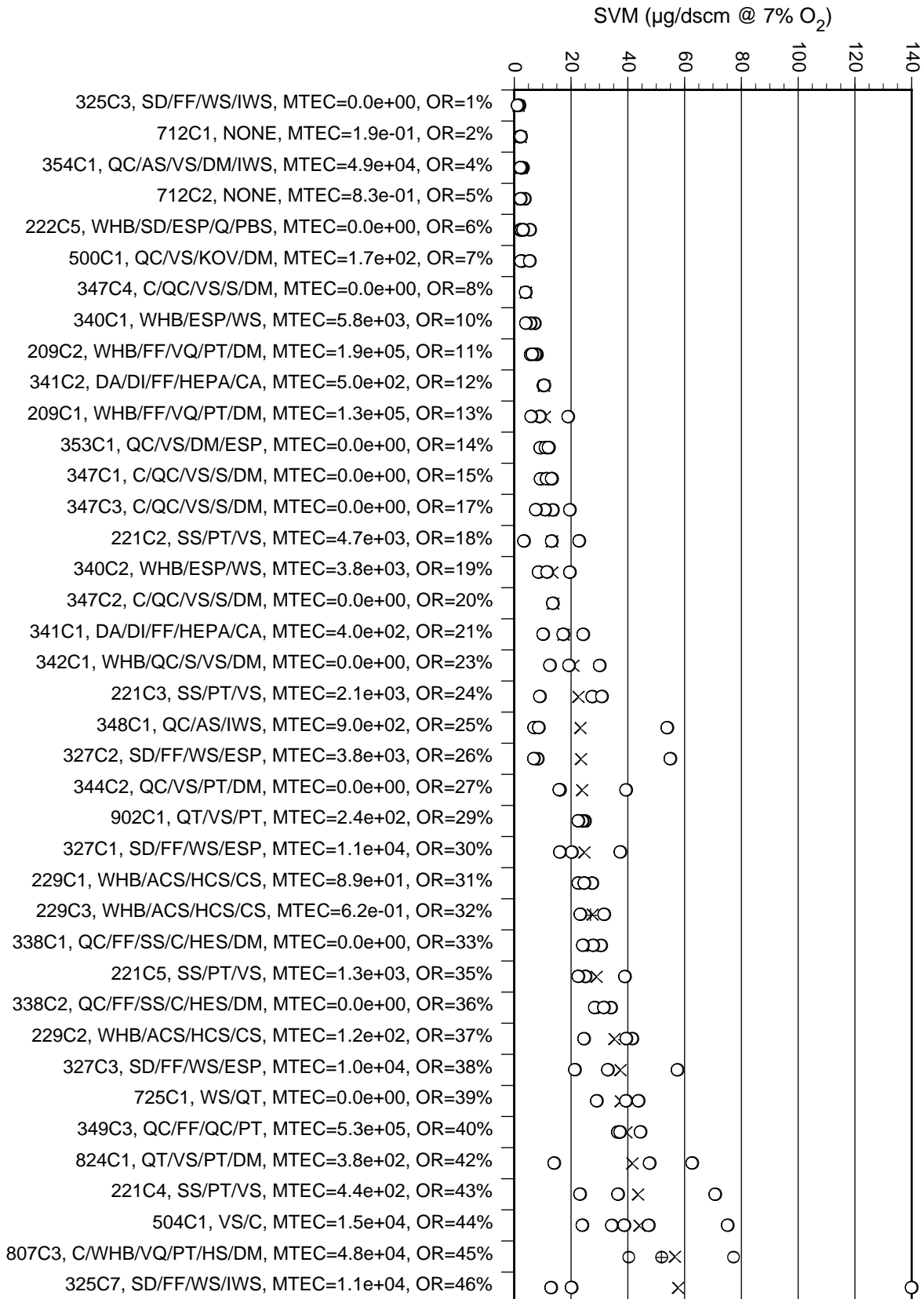
Mercury -- Cement Kilns -- 6% MACT Expanded Universe

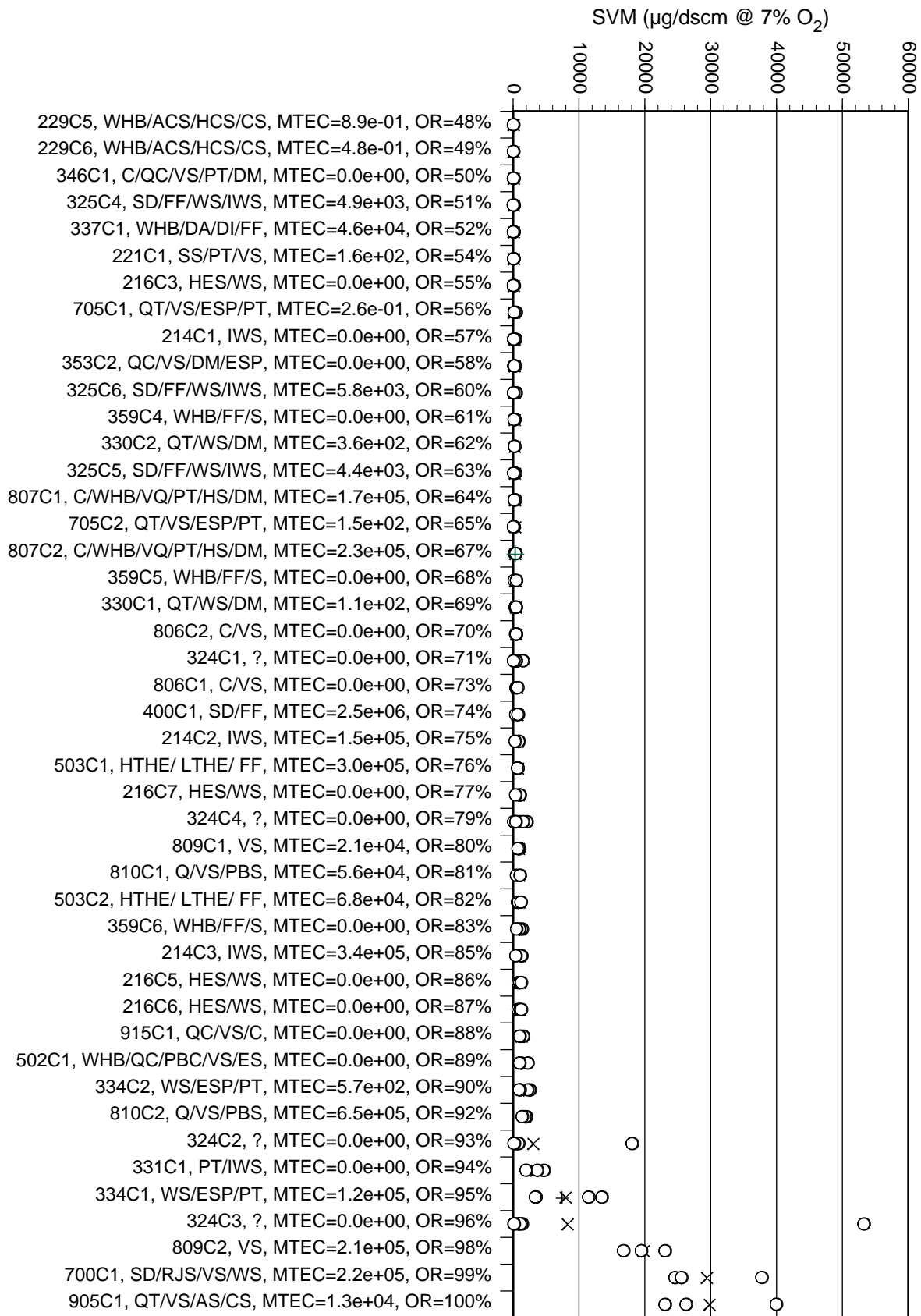


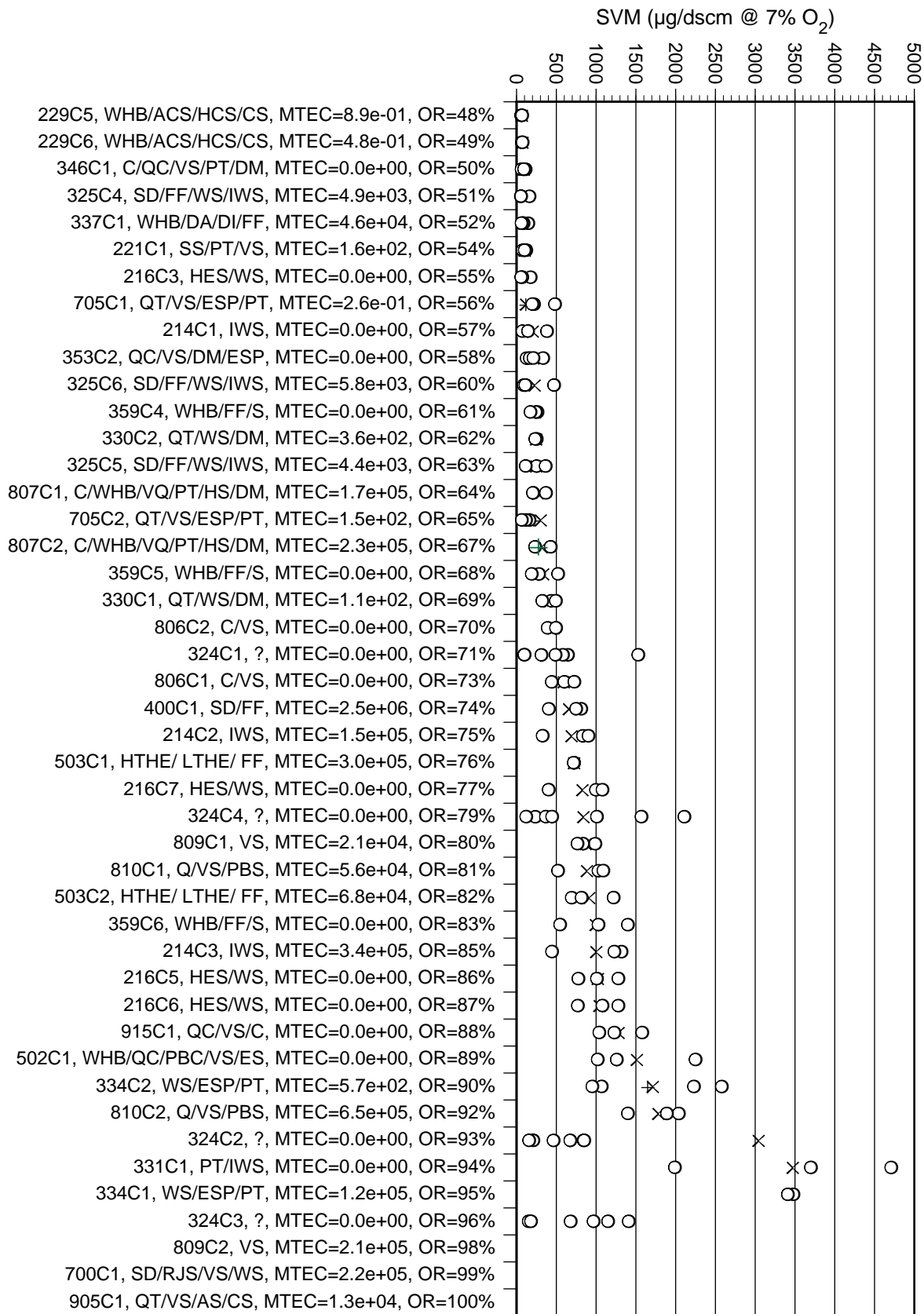
Mercury -- LWAKs -- Entire Universe

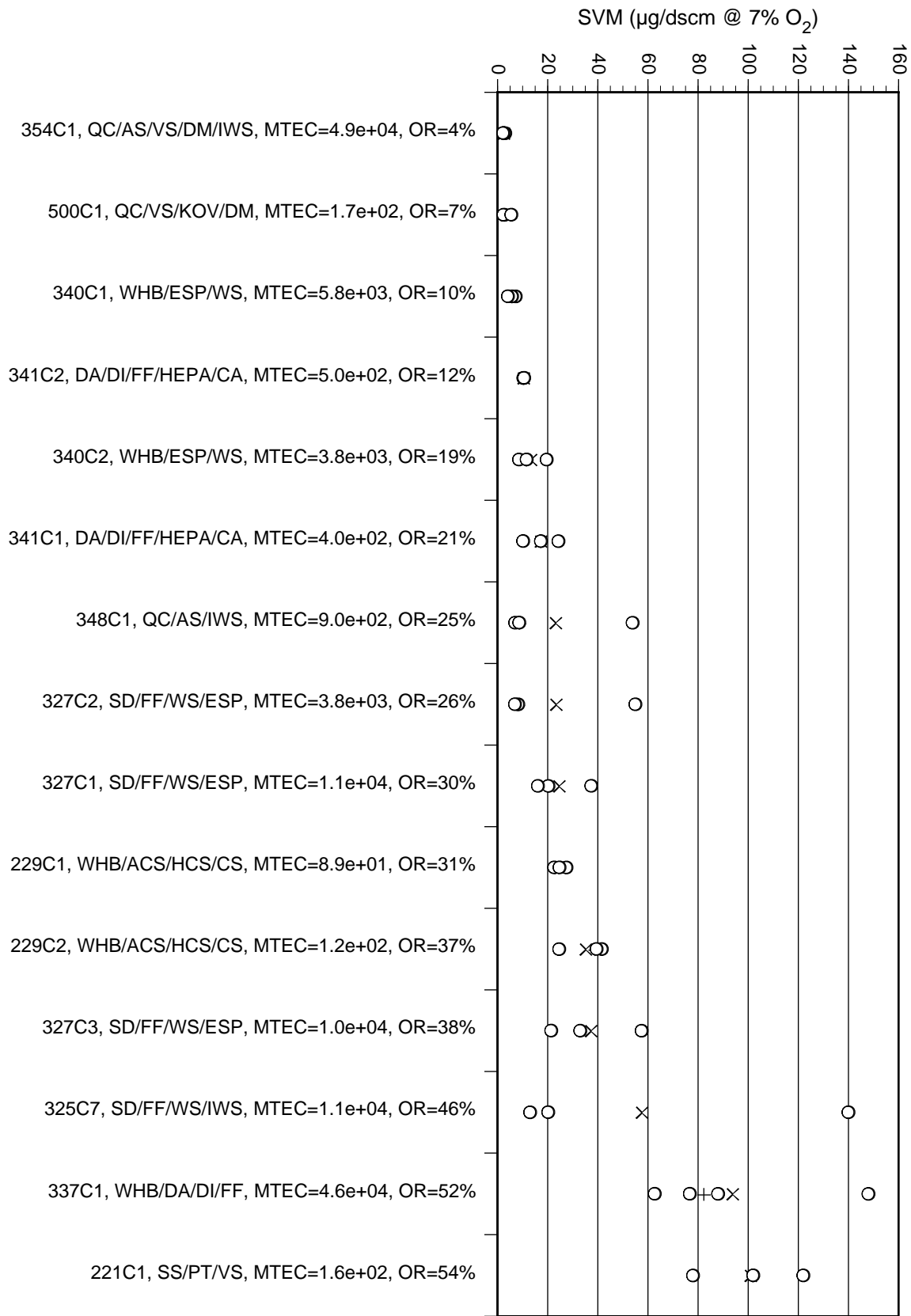


Mercury -- LWAKS -- 6% MACT Expanded Universe

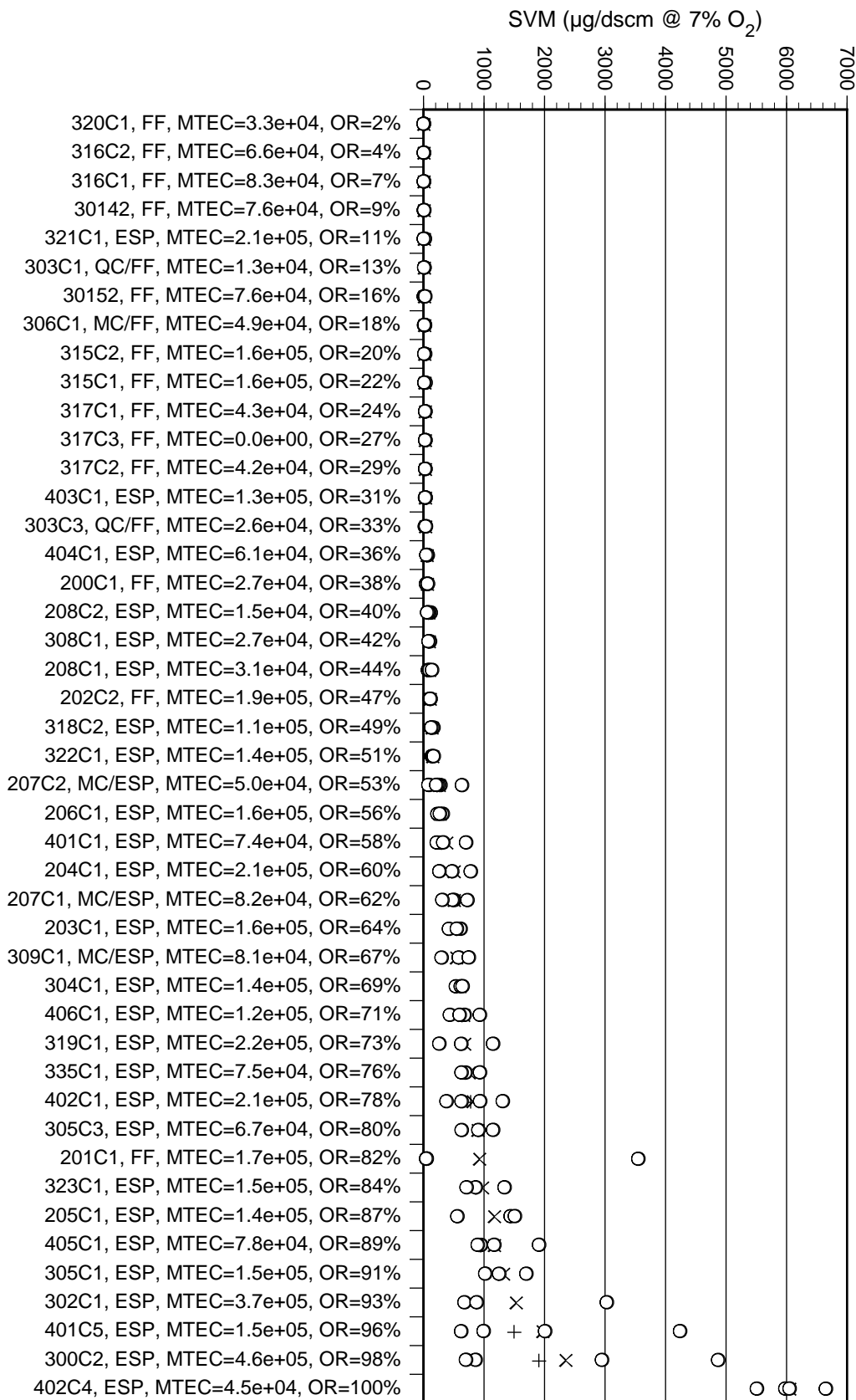






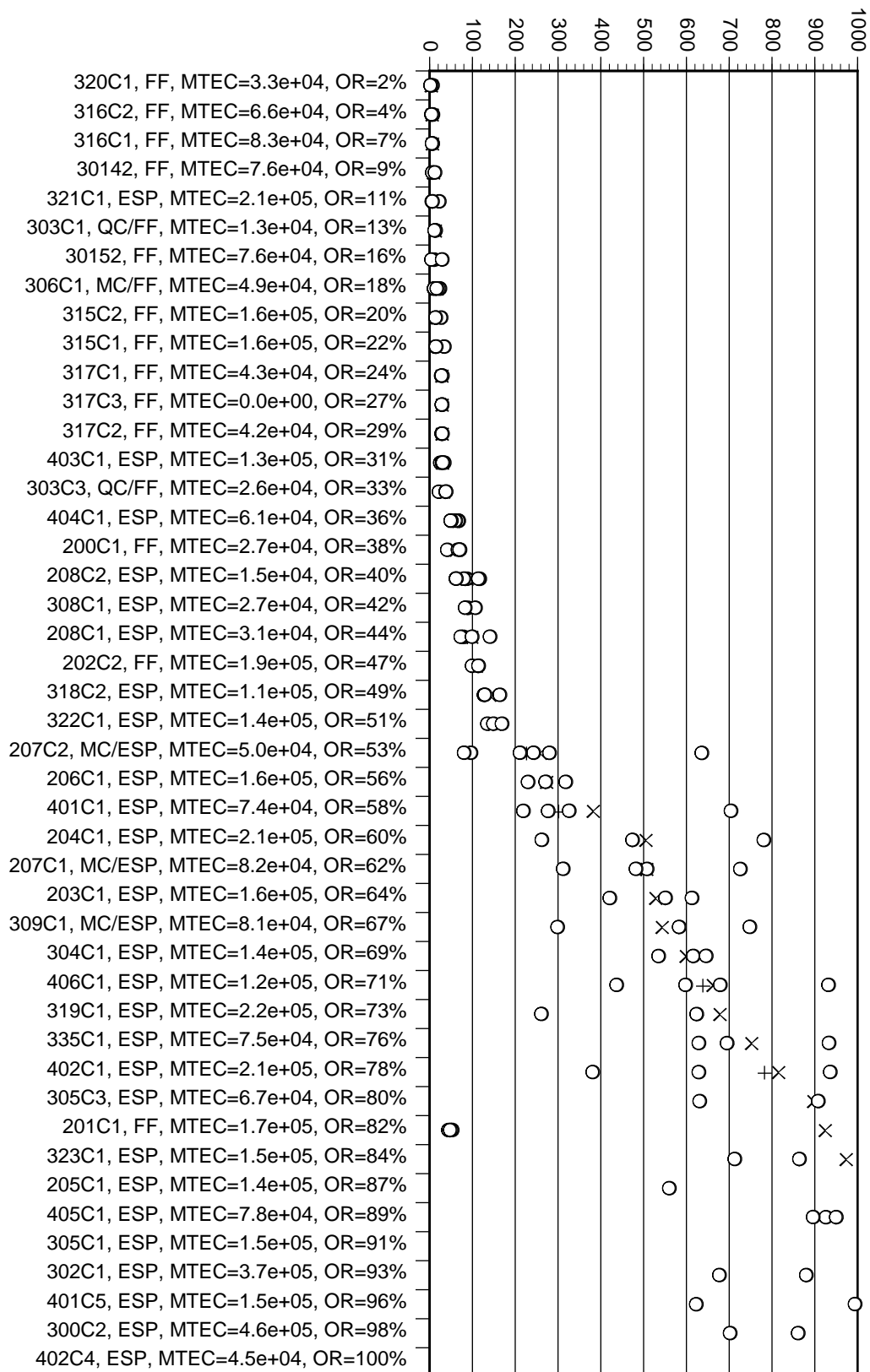


SVM -- Incinerators -- 6% MACT Expanded Universe



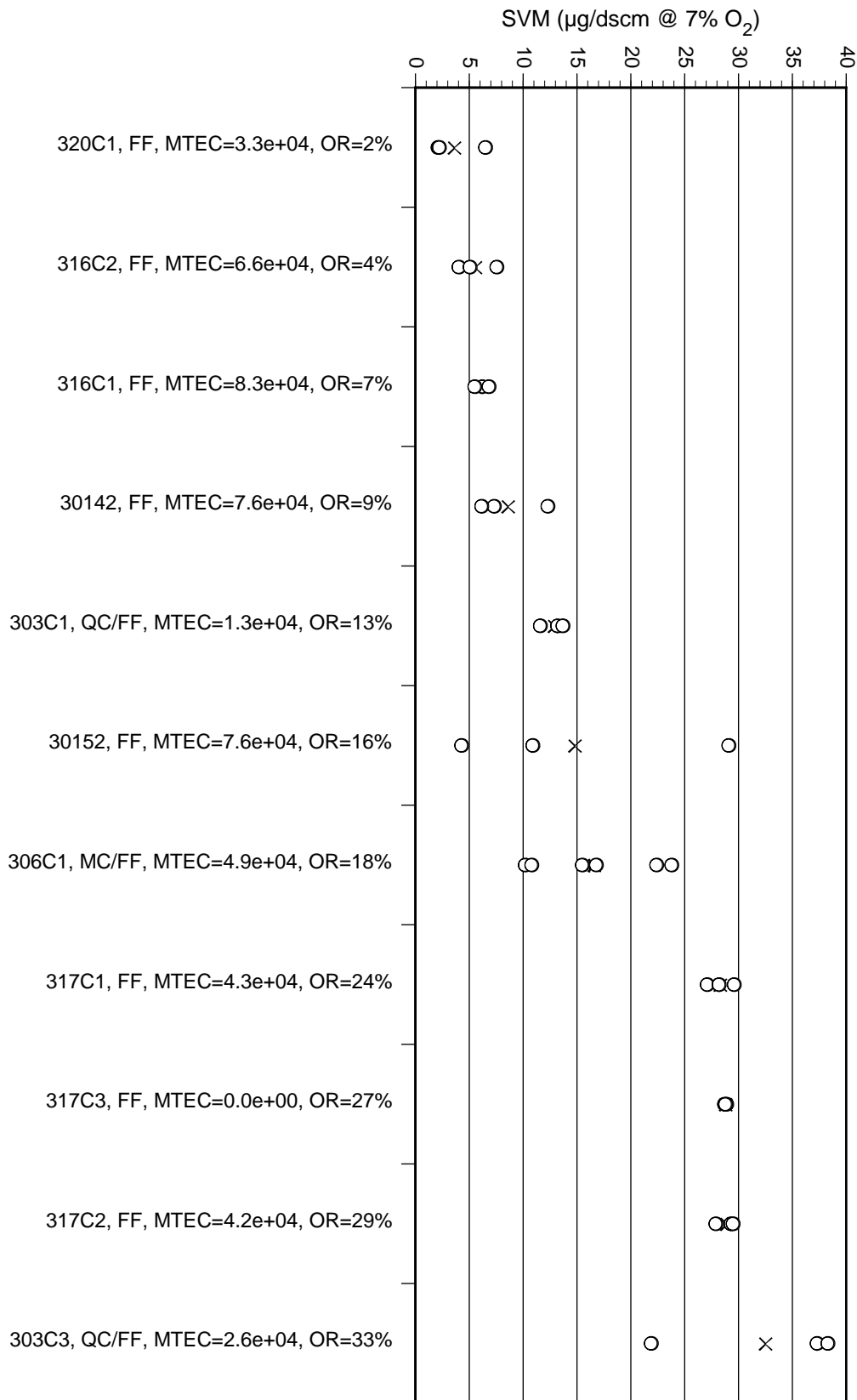
SVM -- Cement Kilns -- Entire Universe

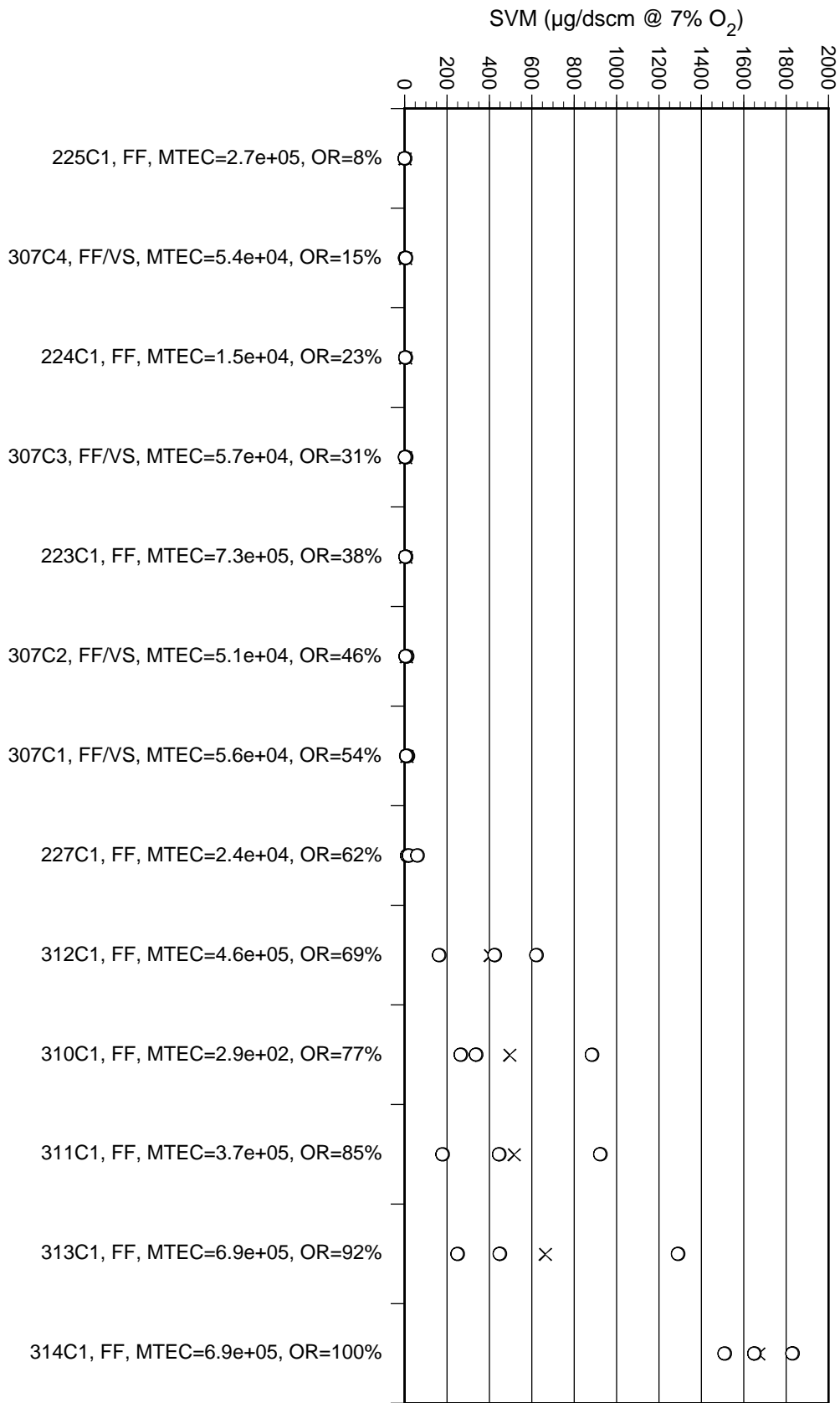
SVM ($\mu\text{g}/\text{dscm}$ @ 7% O_2)



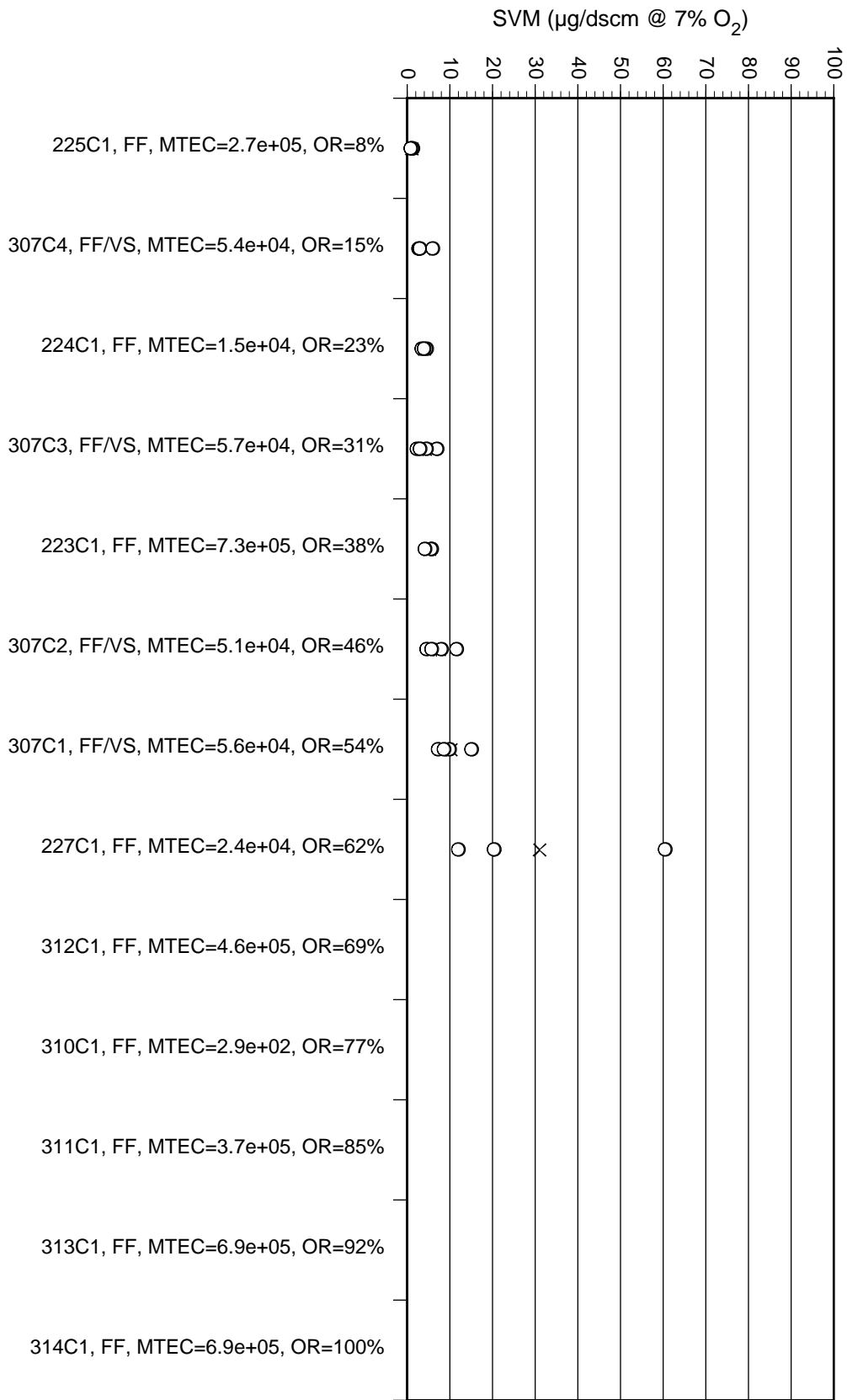
SVM -- Cement Kilns -- Entire Universe

SVM -- Cement Kilns -- 6% MACT Expanded Universe

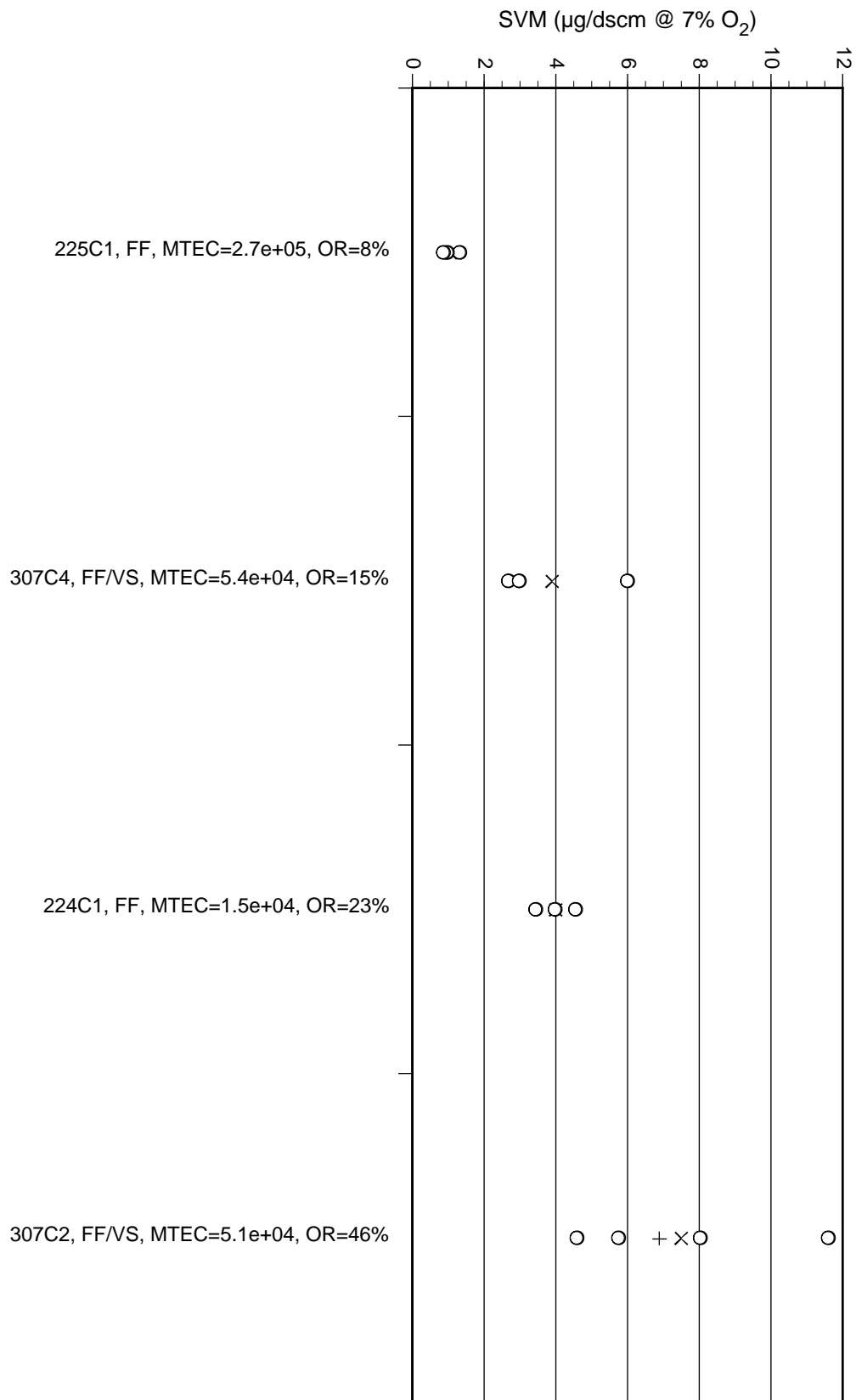




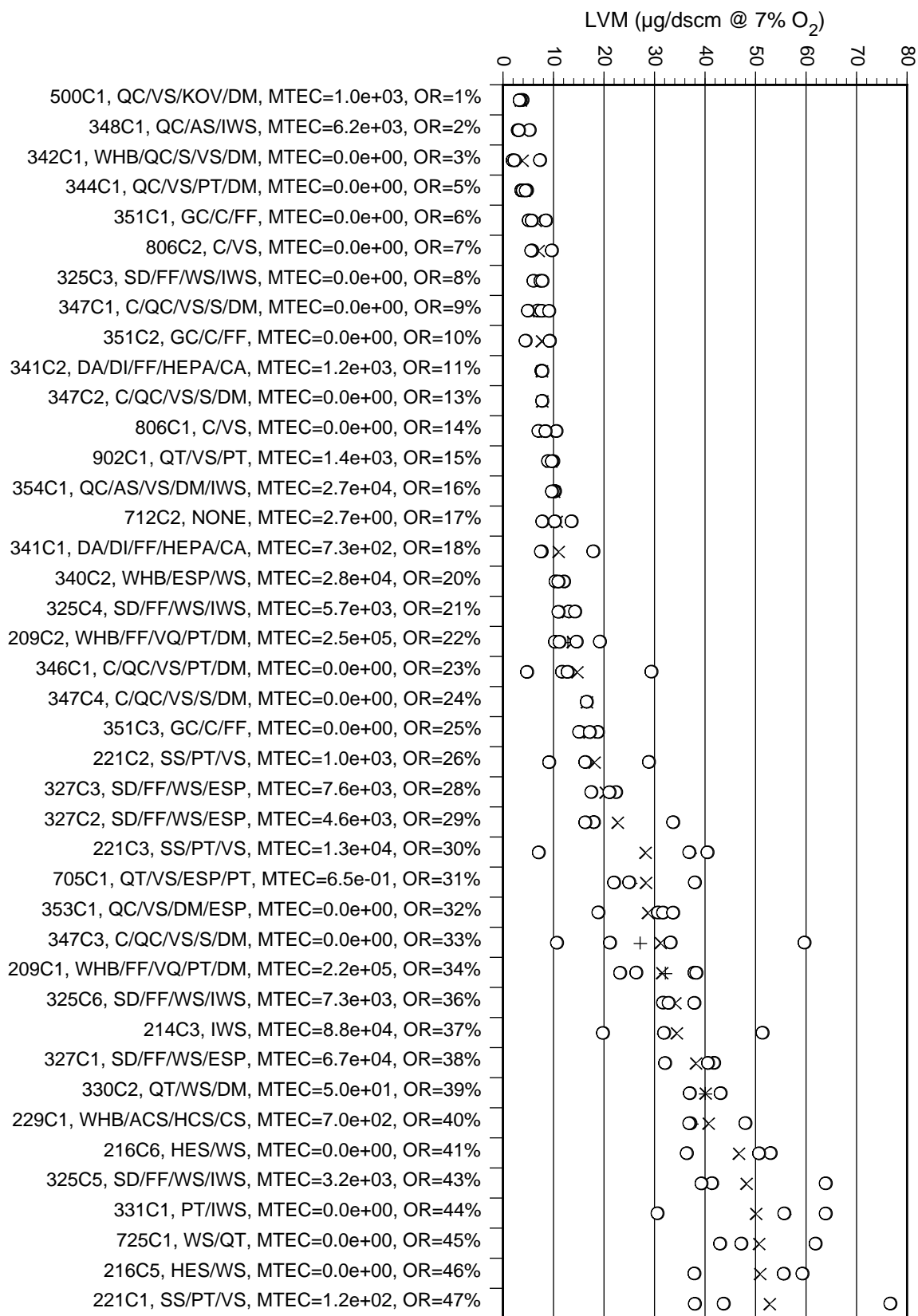
SVM -- LWAKs -- Entire Universe



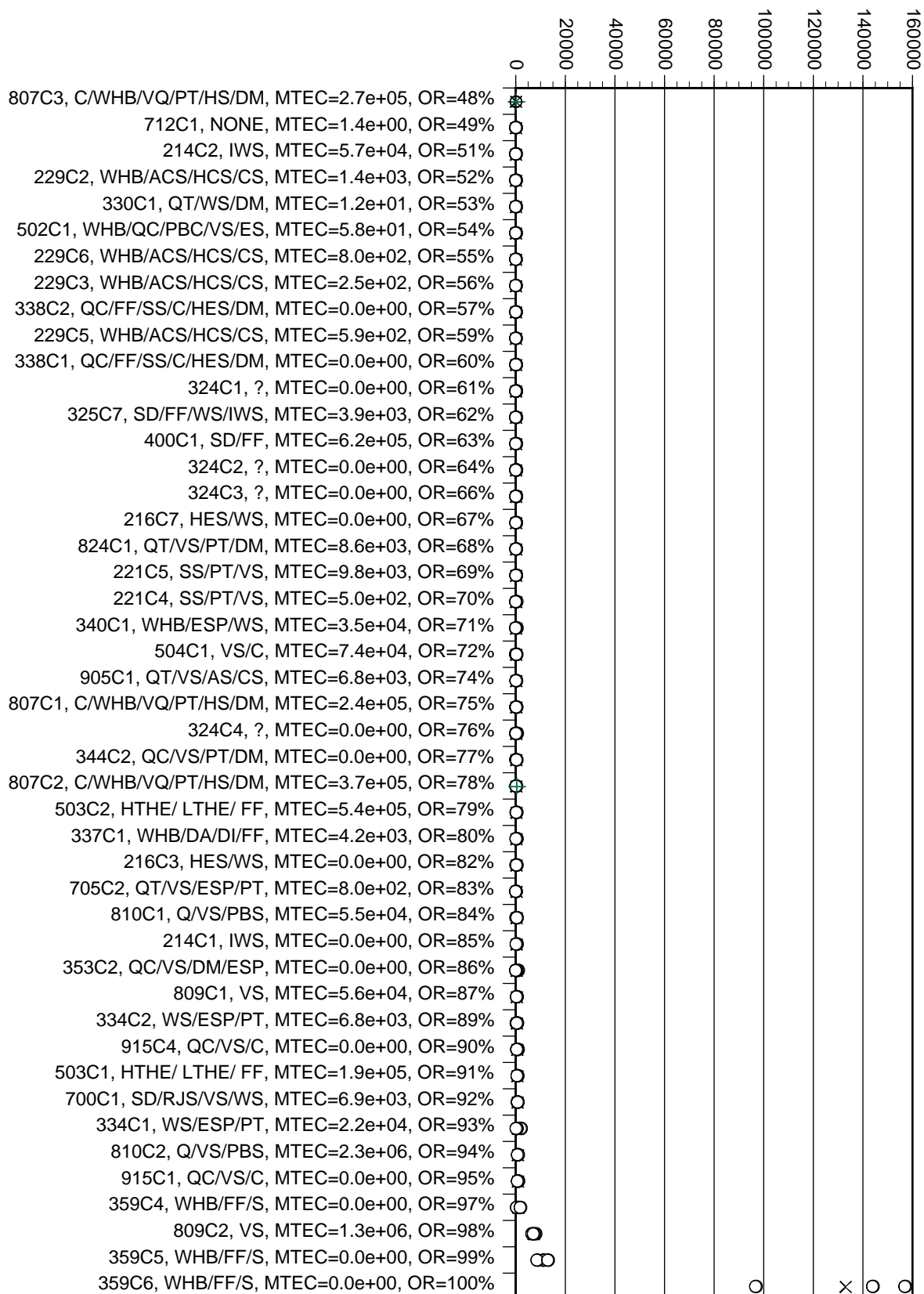
SVM -- LWAKs -- Entire Universe

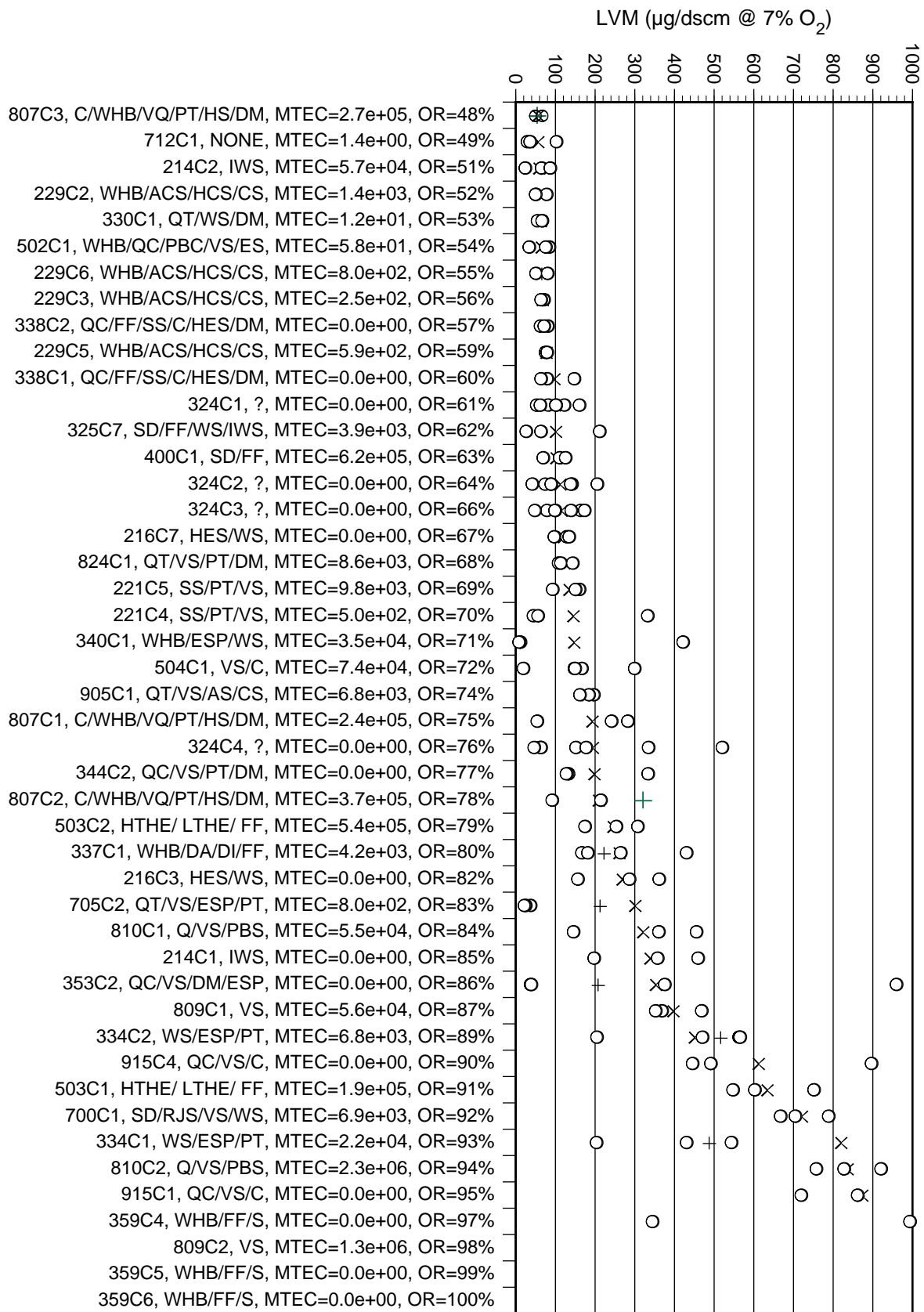


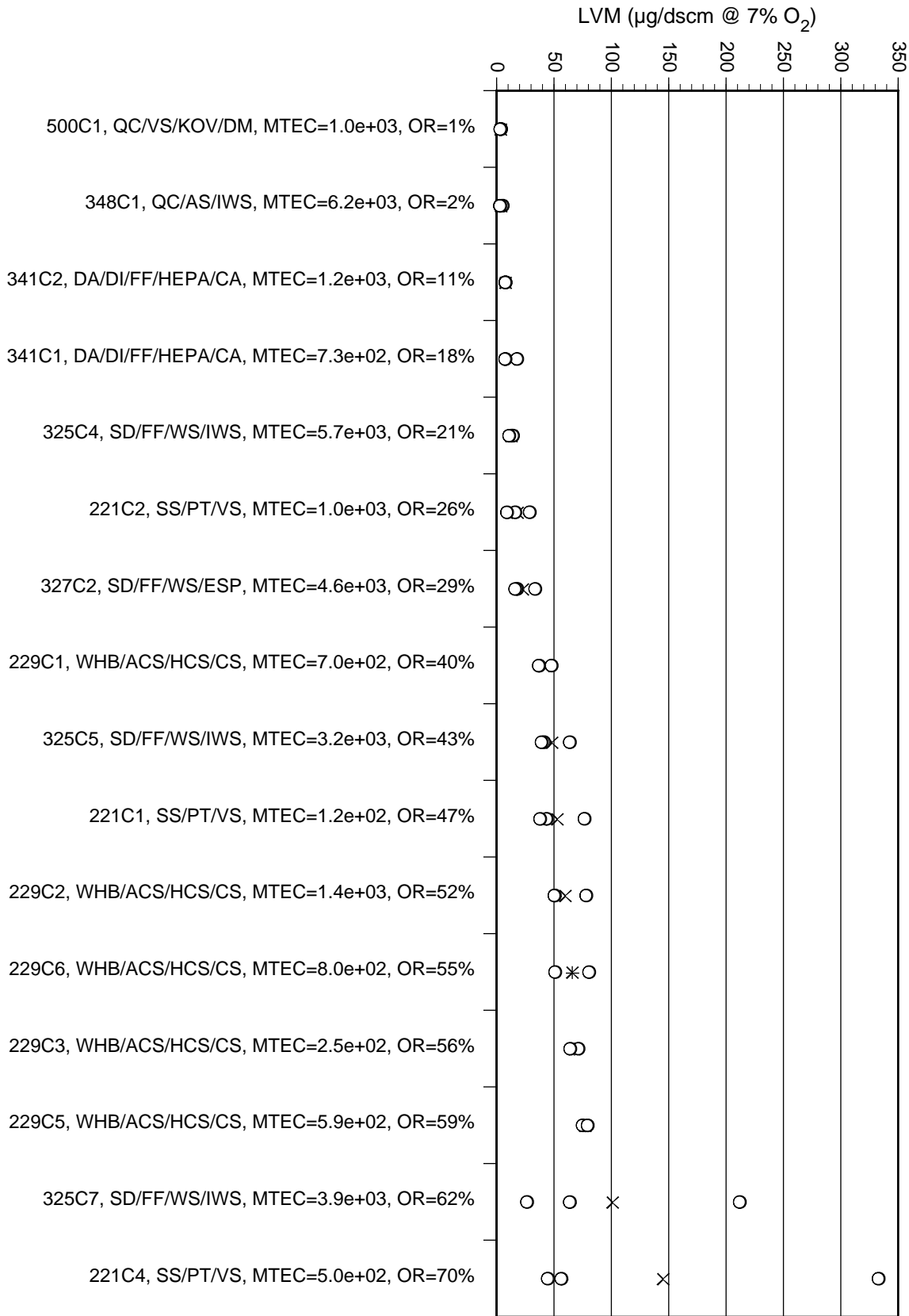
SVM -- LWAKs -- 6% MACT Expanded Universe



LVM ($\mu\text{g/dscm}$ @ 7% O_2)

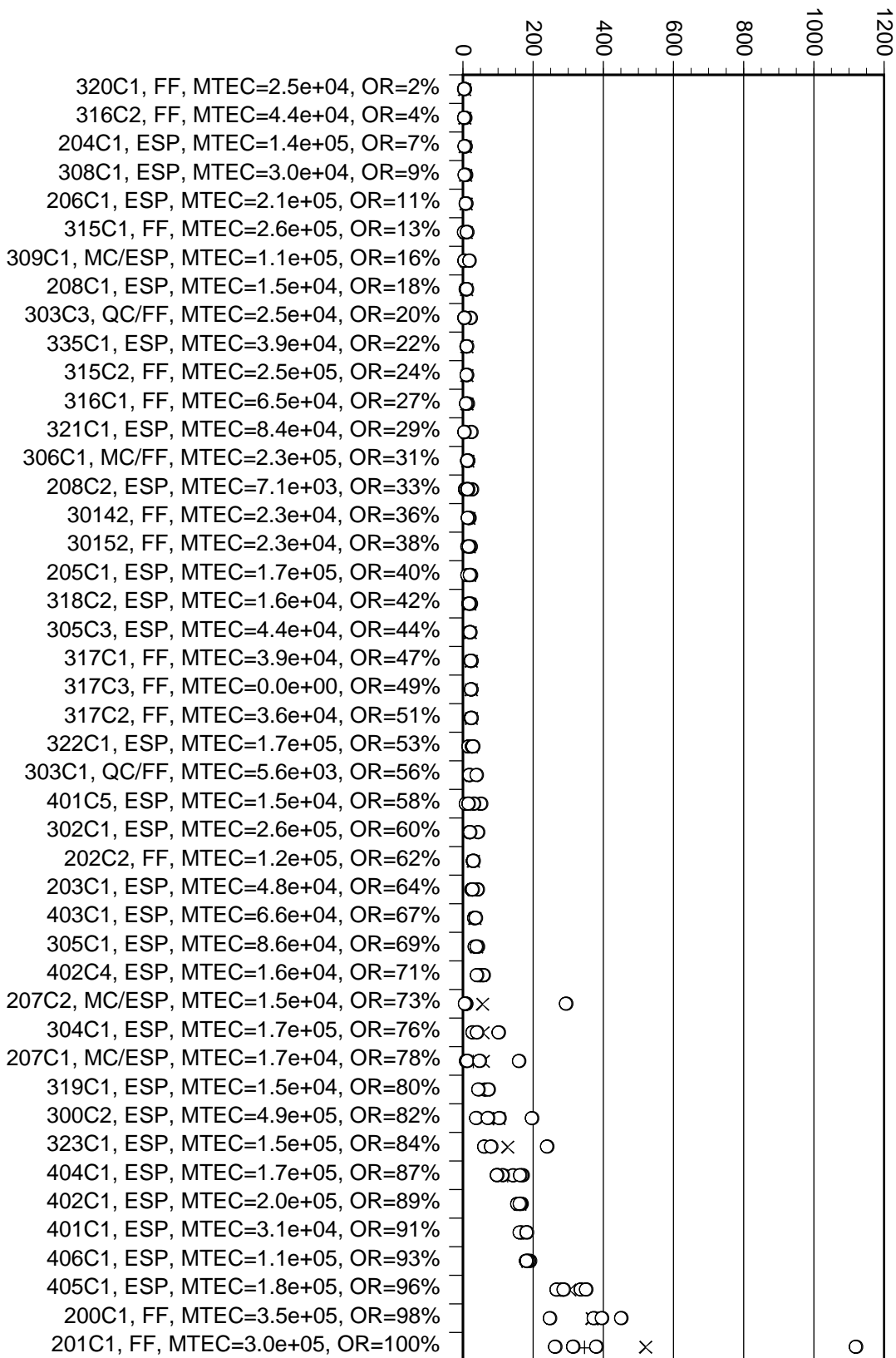




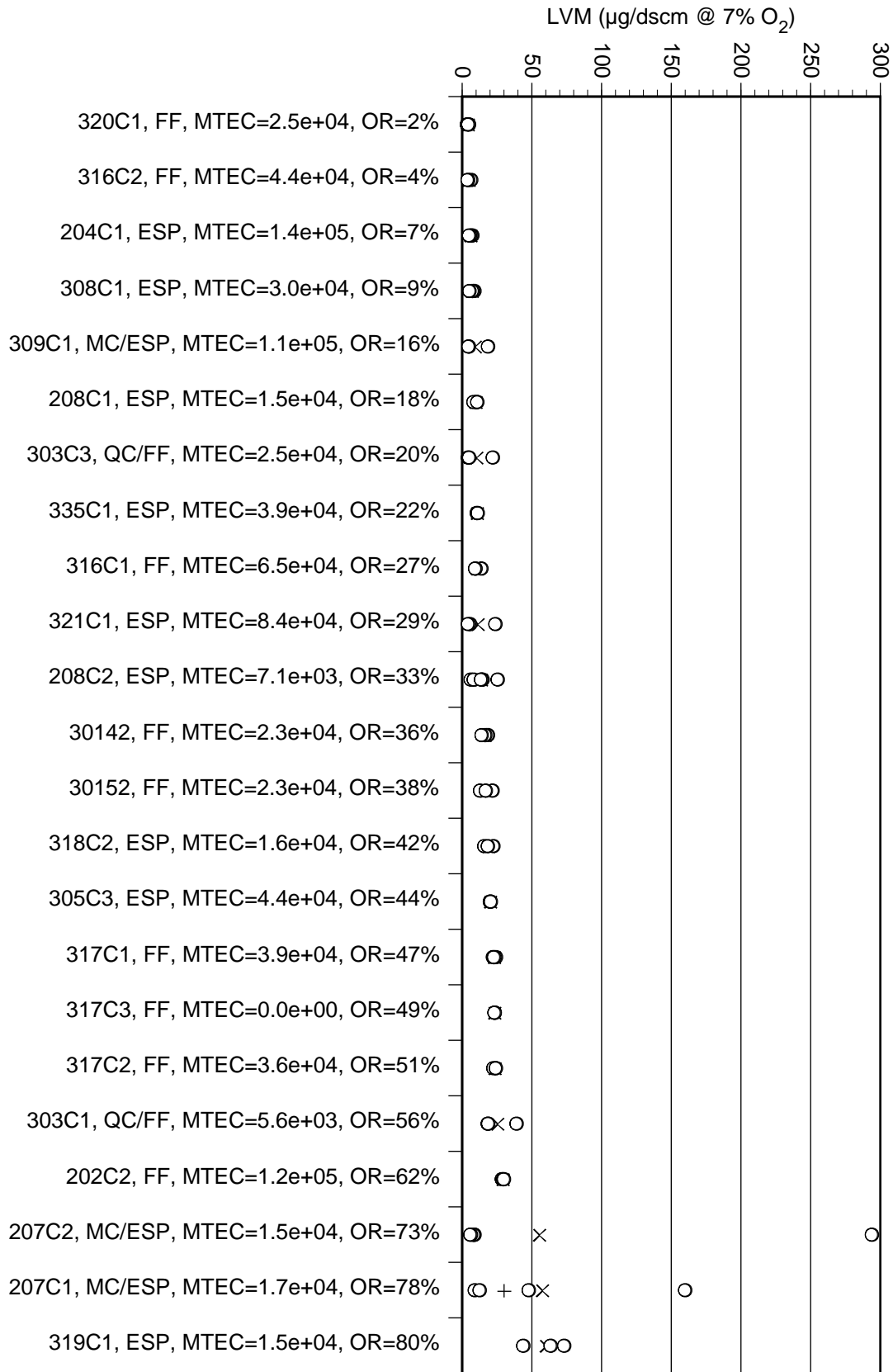


LVM -- Incinerators -- 6% MACT Expanded Universe

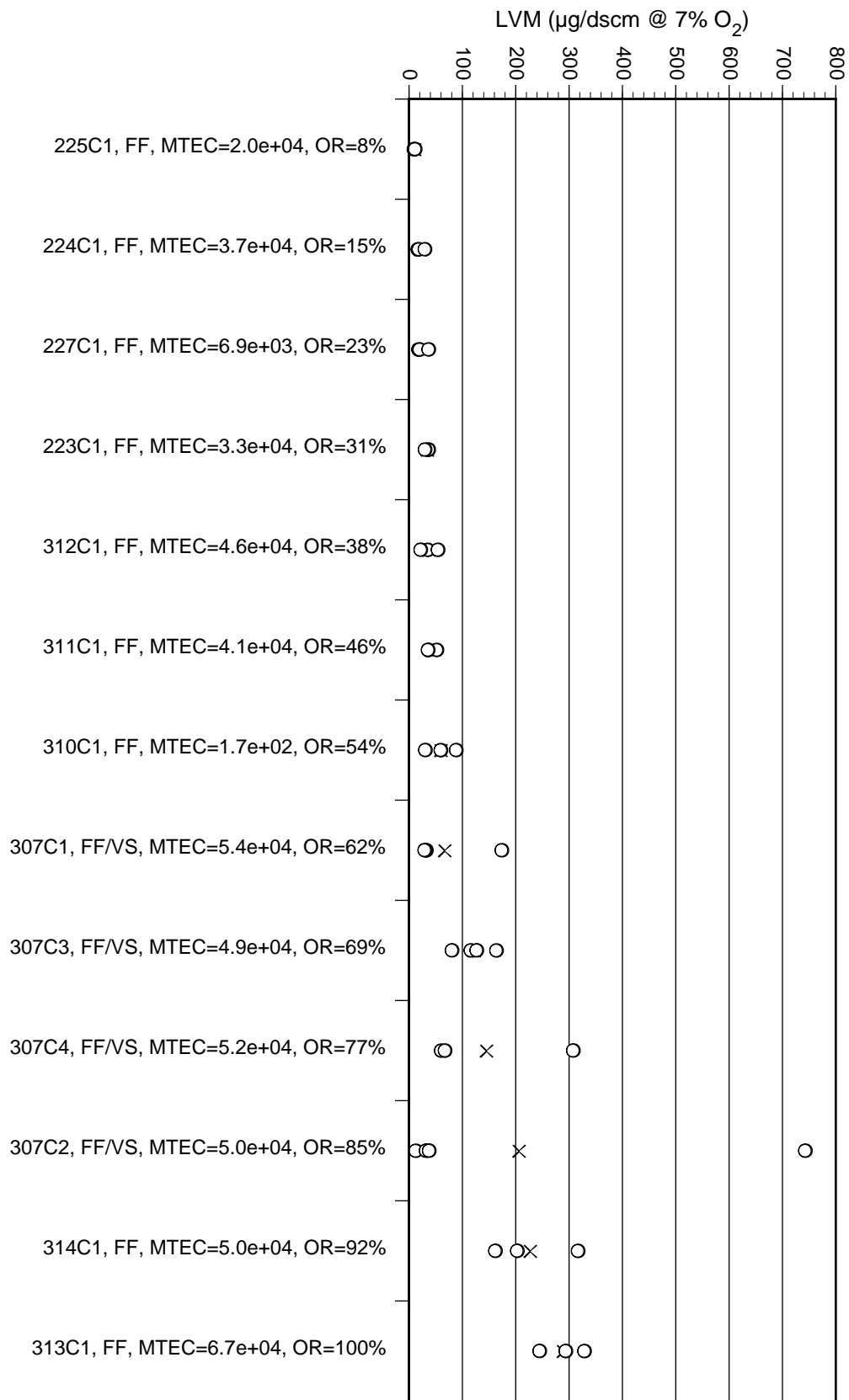
LVM ($\mu\text{g}/\text{dscm}$ @ 7% O_2)



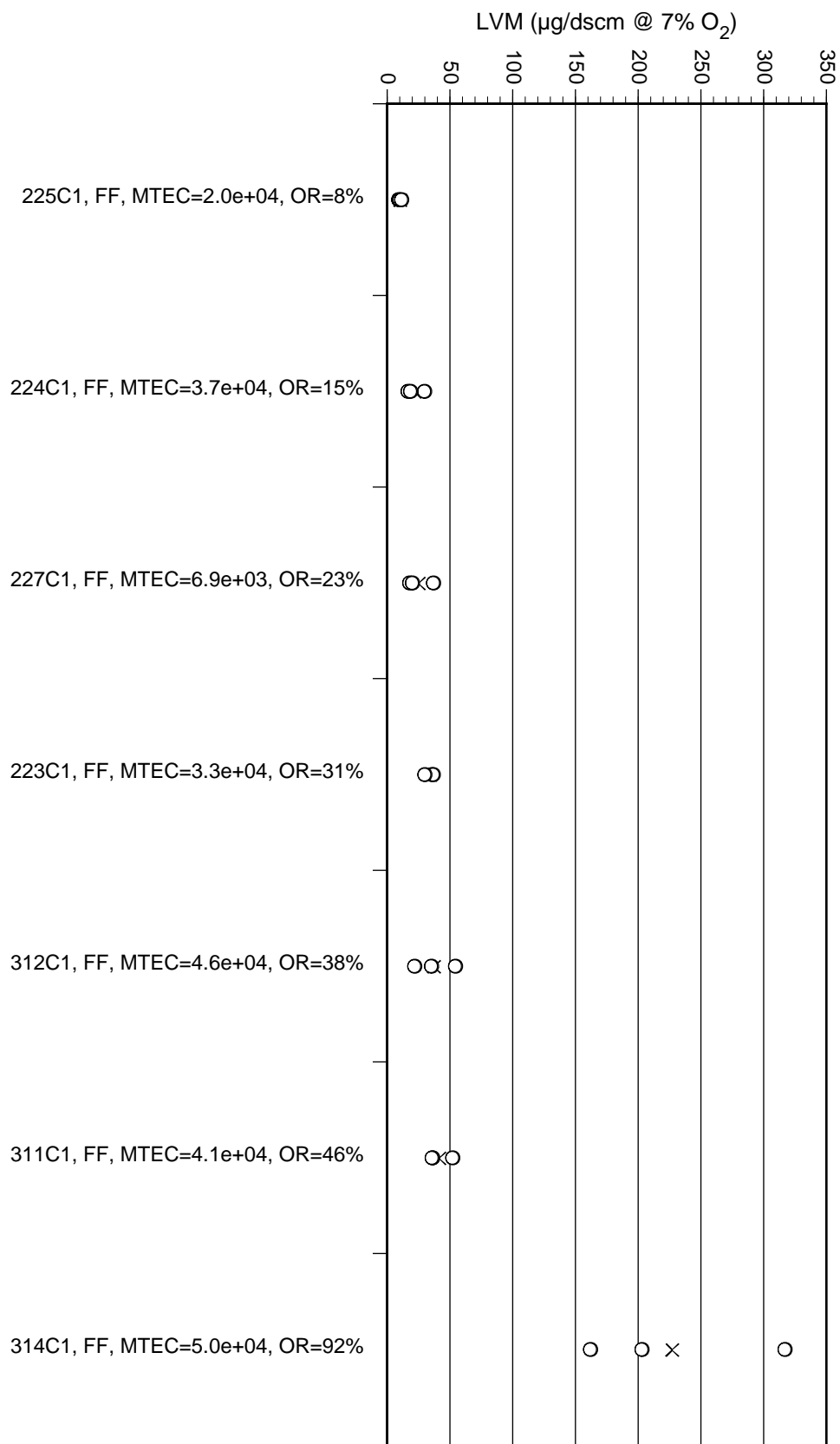
LVM -- Cement Kilns -- Entire Universe



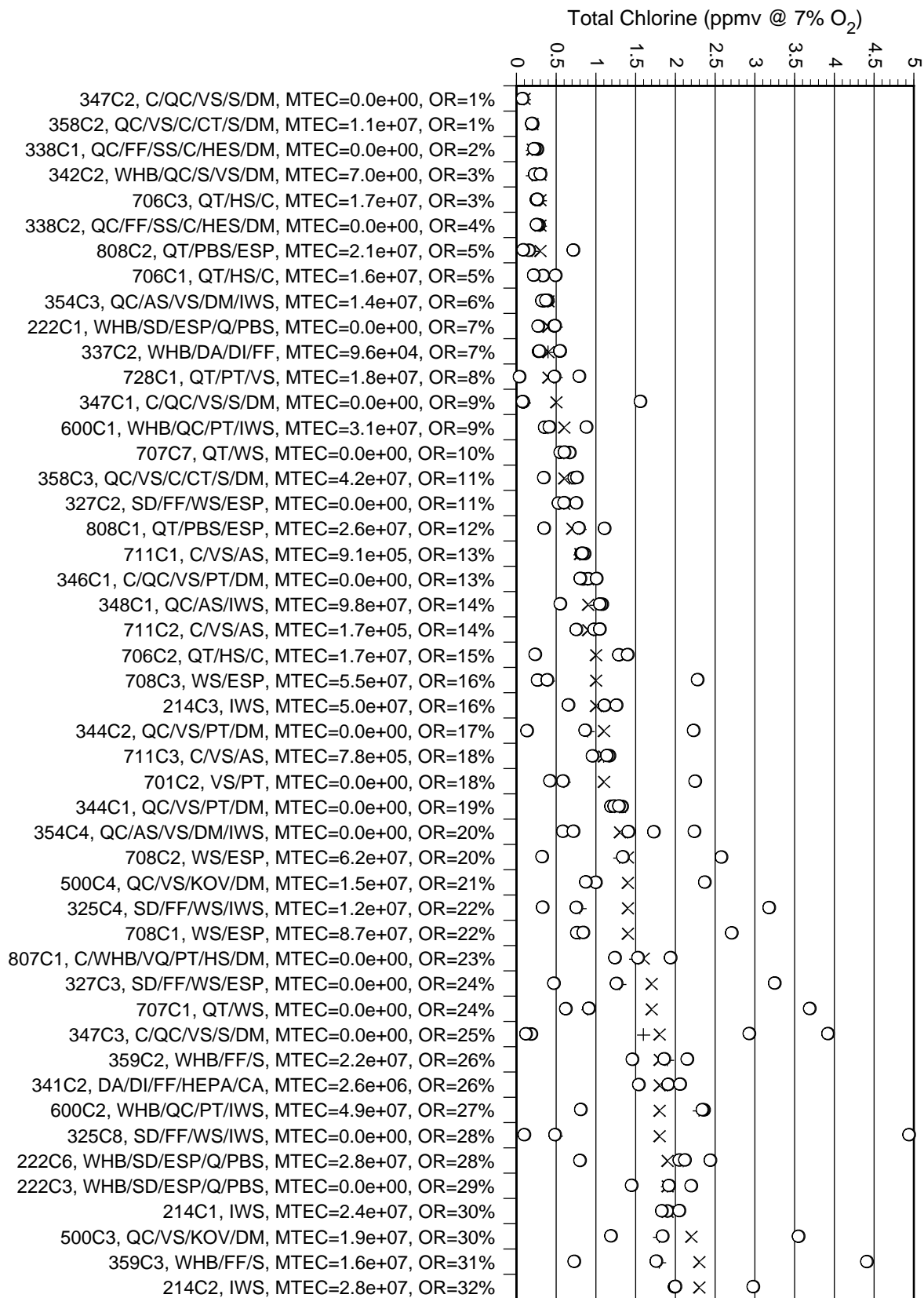
LVM -- Cement Kilns -- 6% MACT Expanded Universe



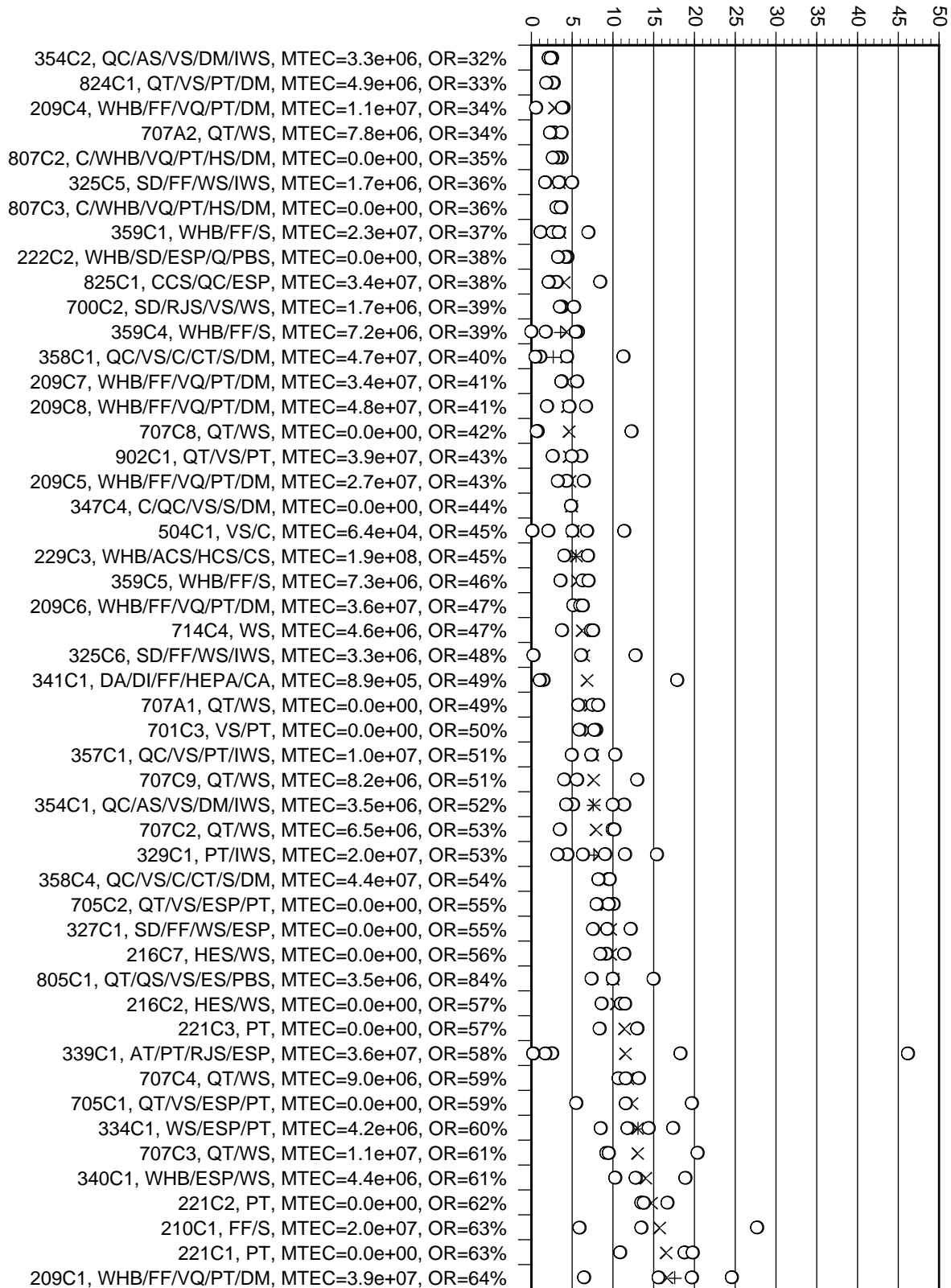
LVM -- LWAKs -- Entire Universe



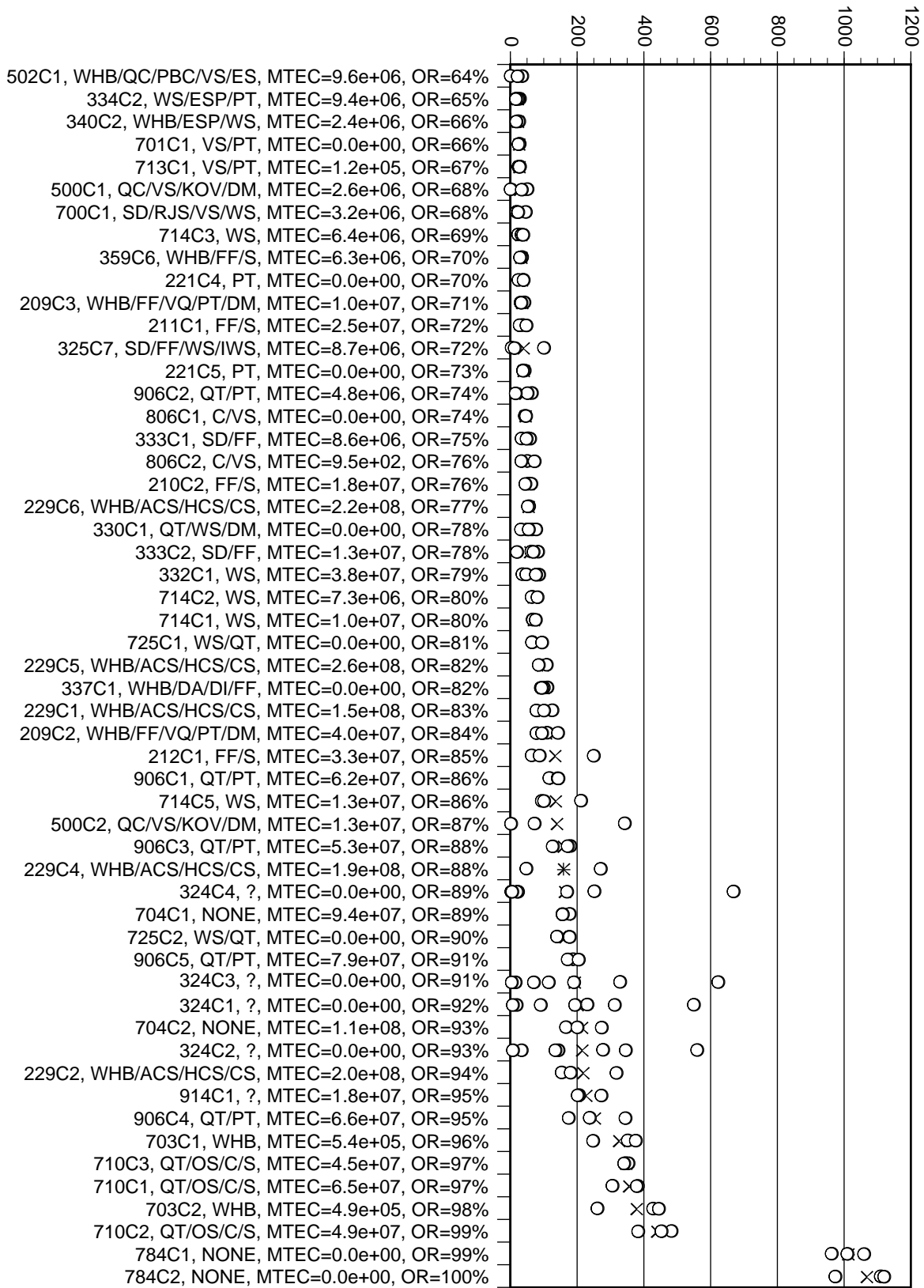
LVM -- LWAKS -- 6% MACT Expanded Universe



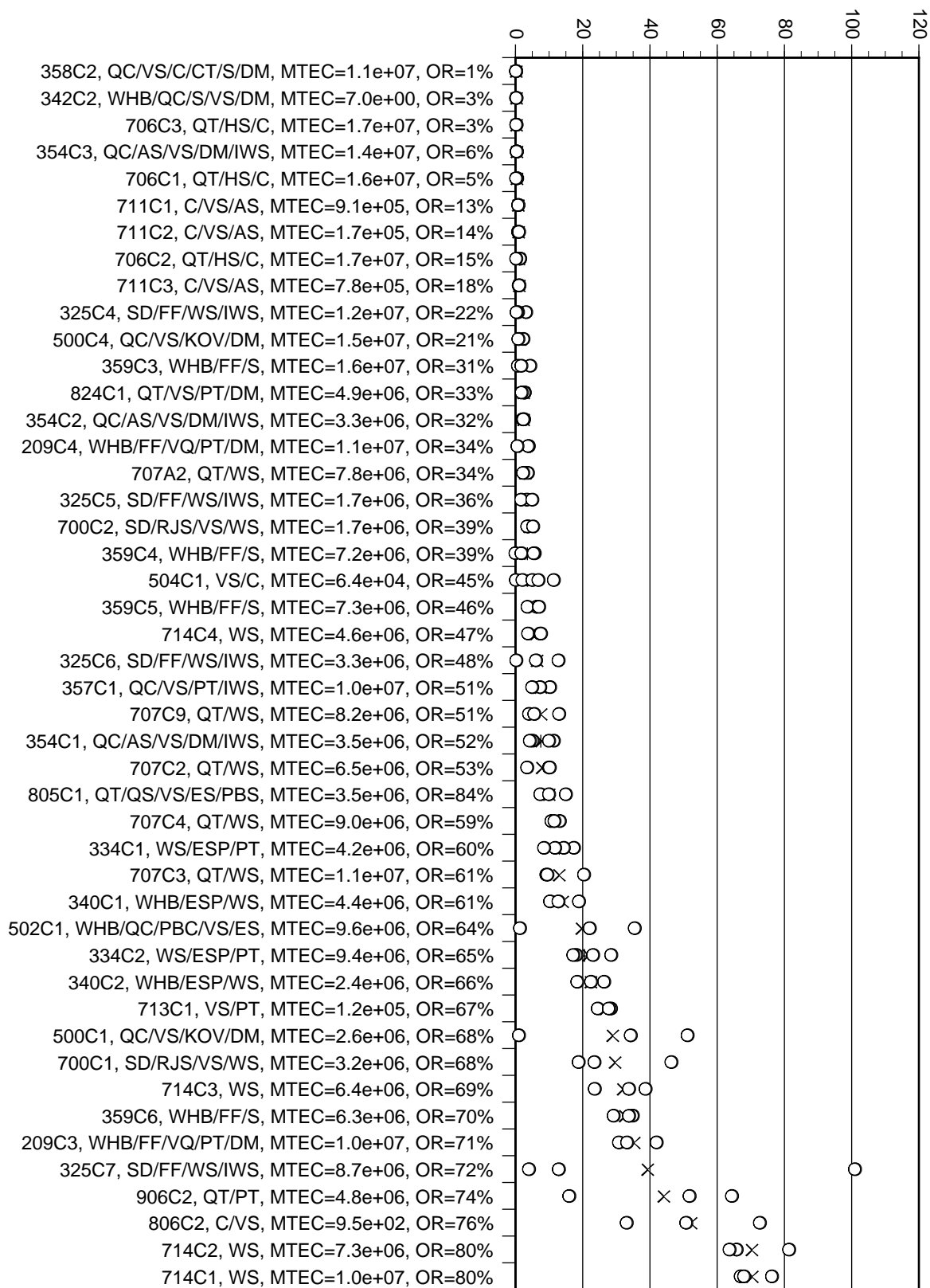
Total Chlorine (ppmv @ 7% O₂)



Total Chlorine (ppmv @ 7% O₂)

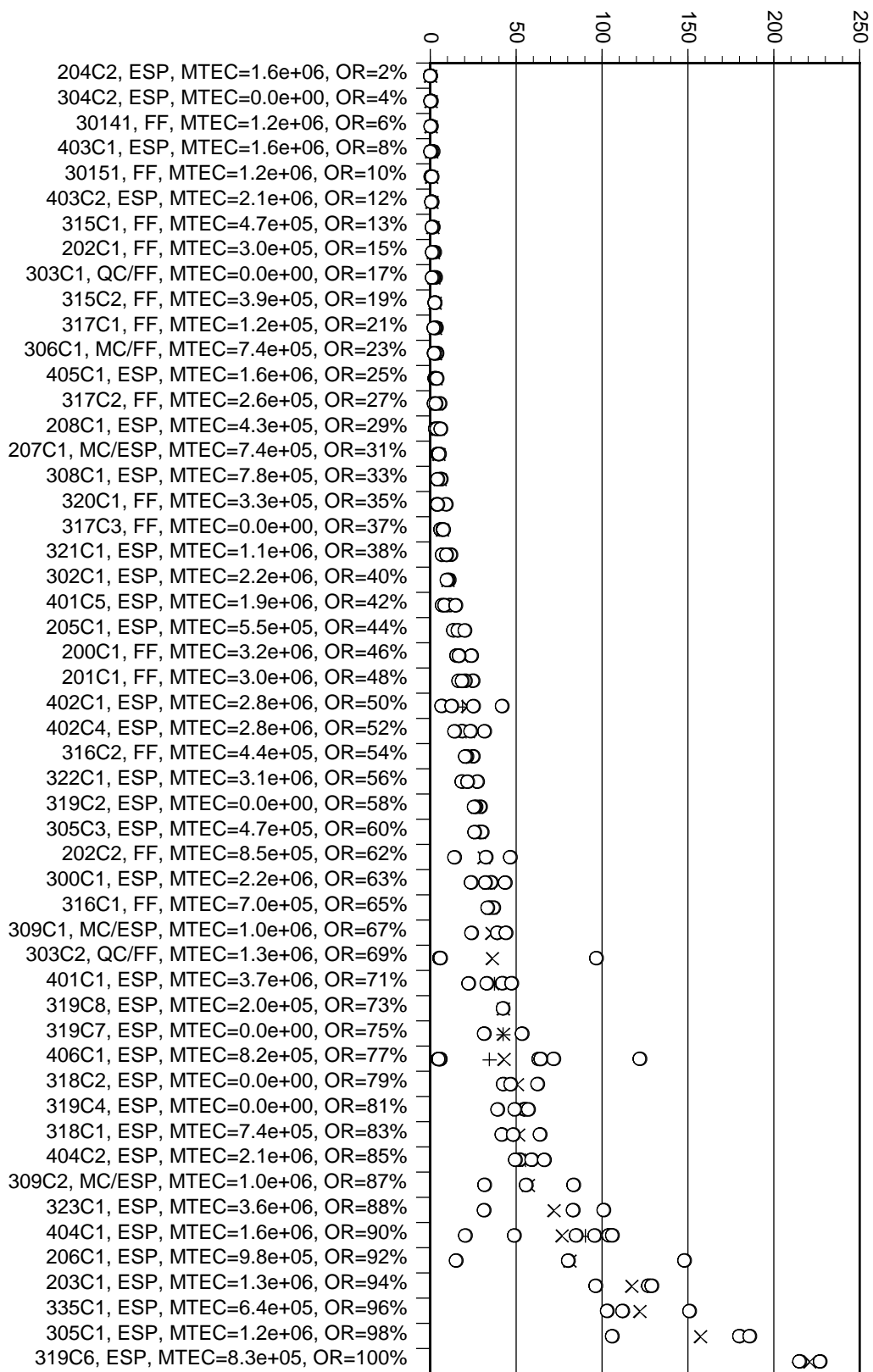


Total Chlorine (ppmv @ 7% O₂)

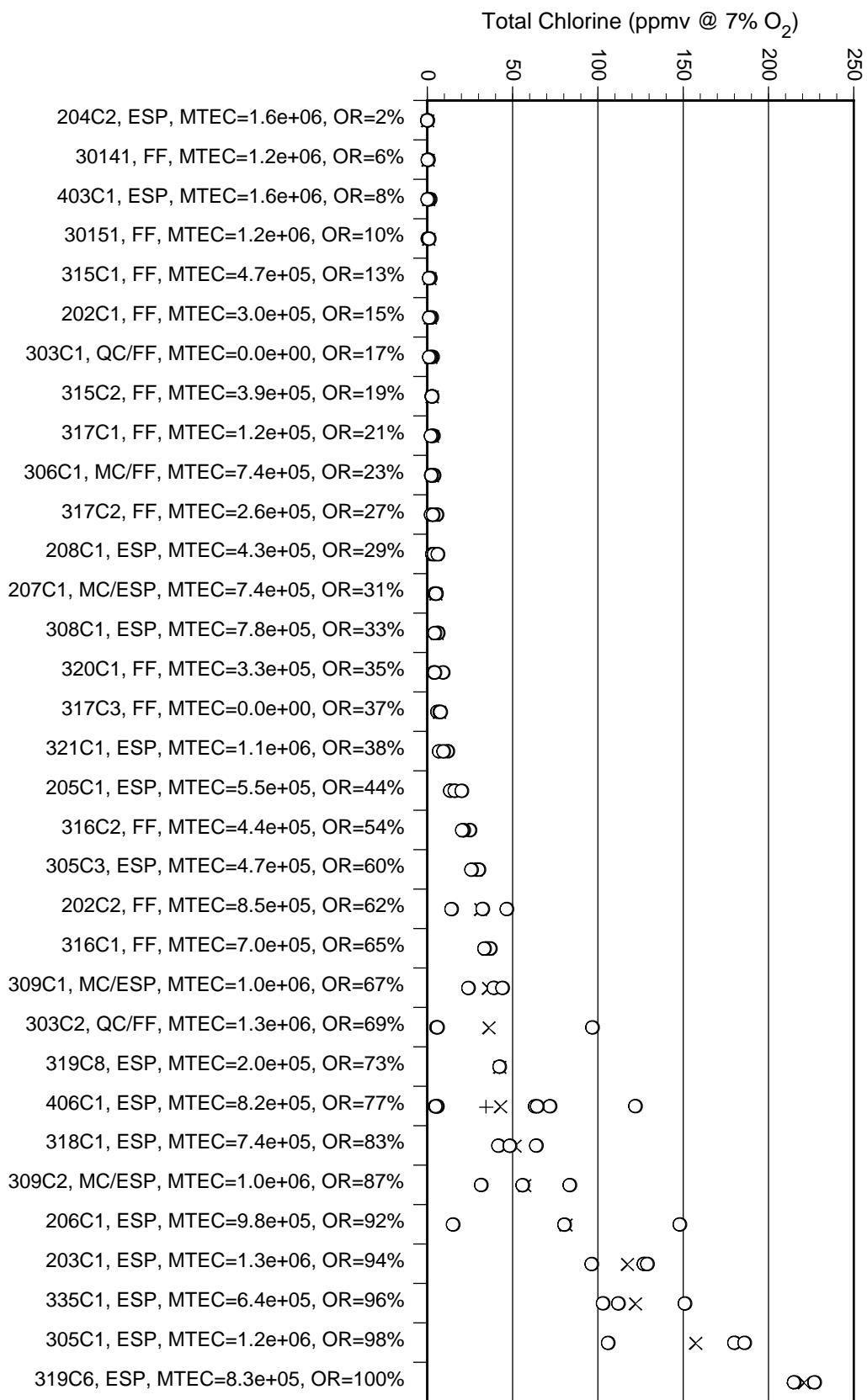


Total Chlorine -- Incinerators -- 6% MACT Expanded Universe

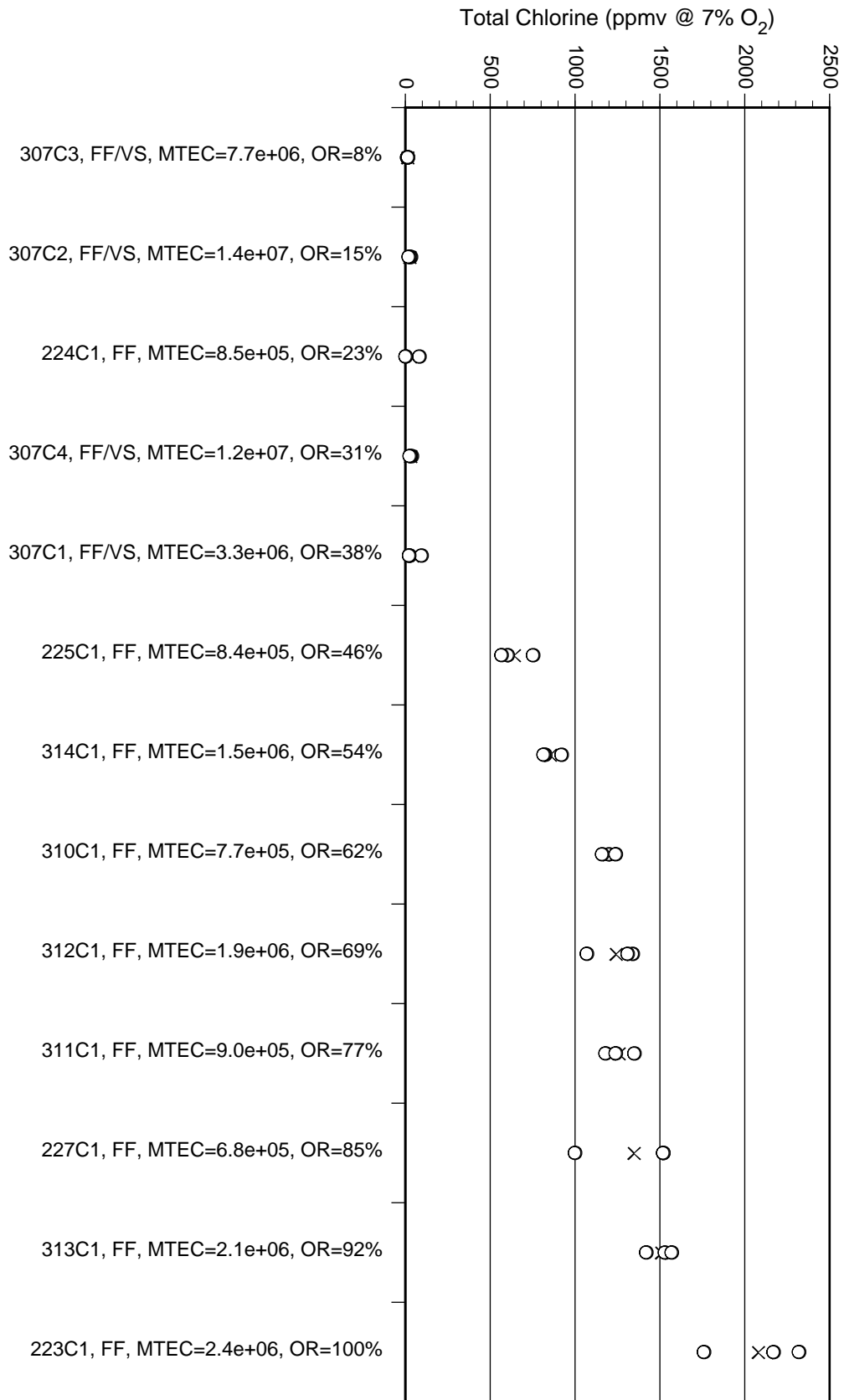
Total Chlorine (ppmv @ 7% O₂)



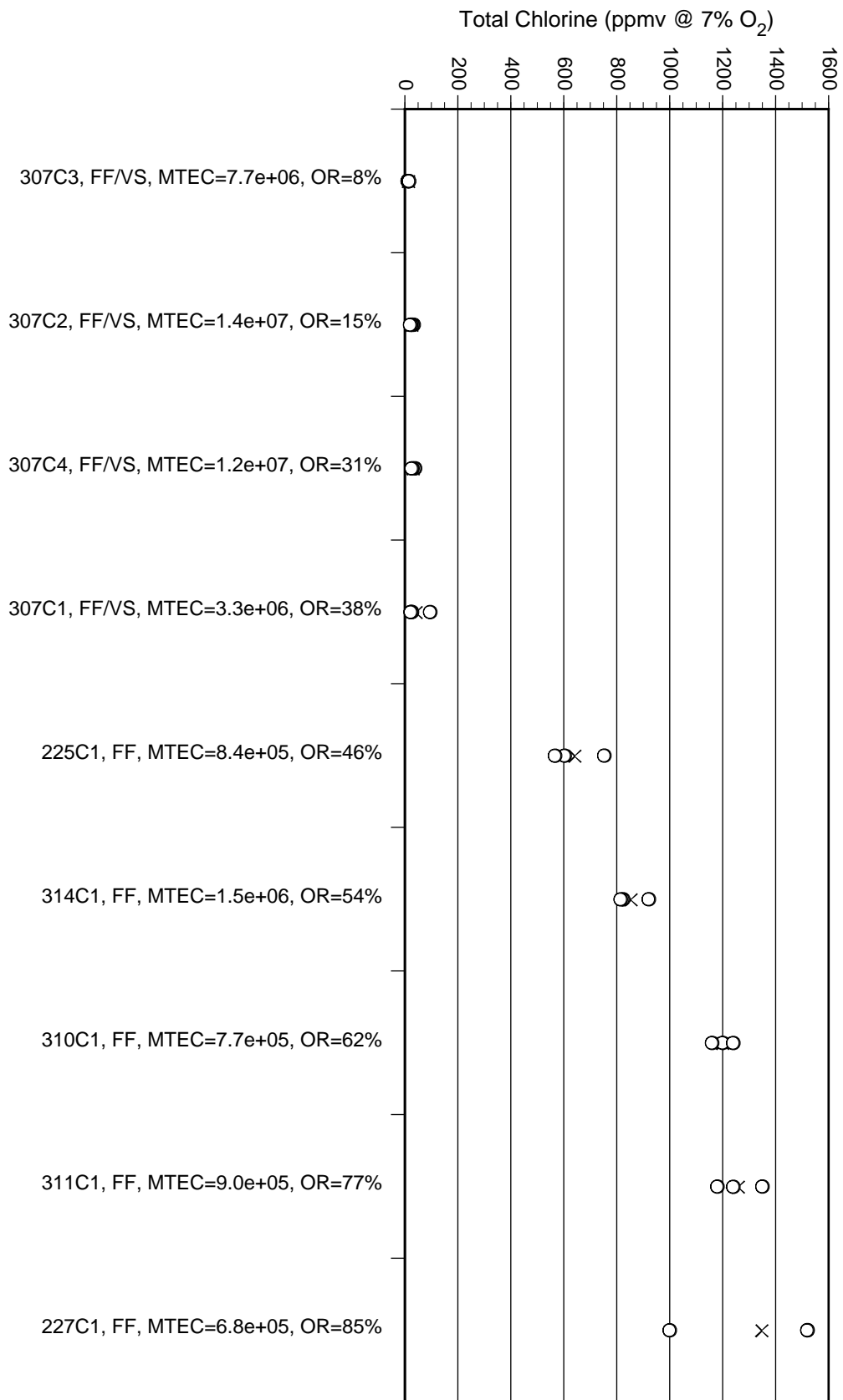
Total Chlorine -- Cement Kilns -- Entire Universe



Total Chlorine -- Cement Kilns -- 6% MACT Expanded Universe

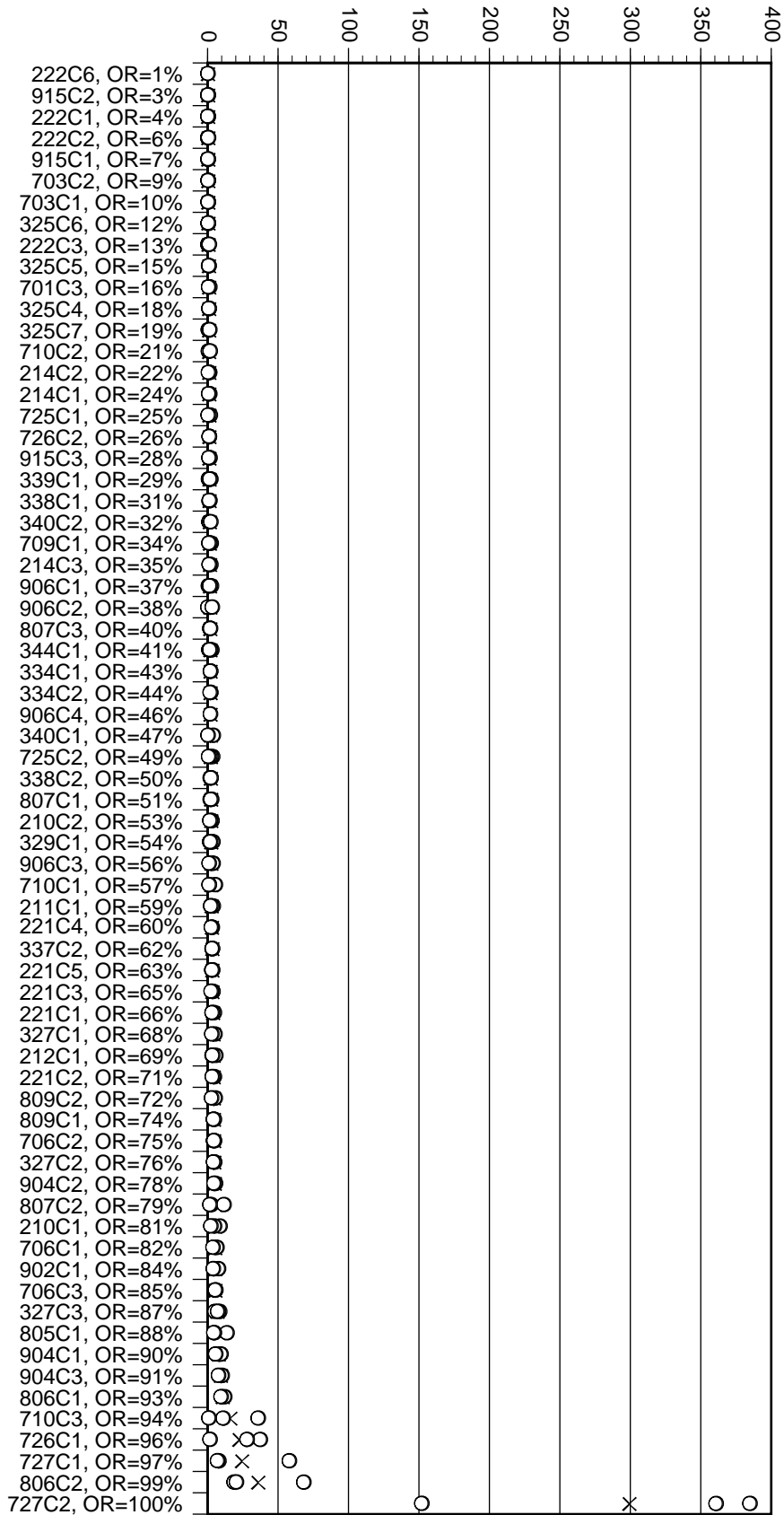


Total Chlorine -- LWAKs -- Entire Universe

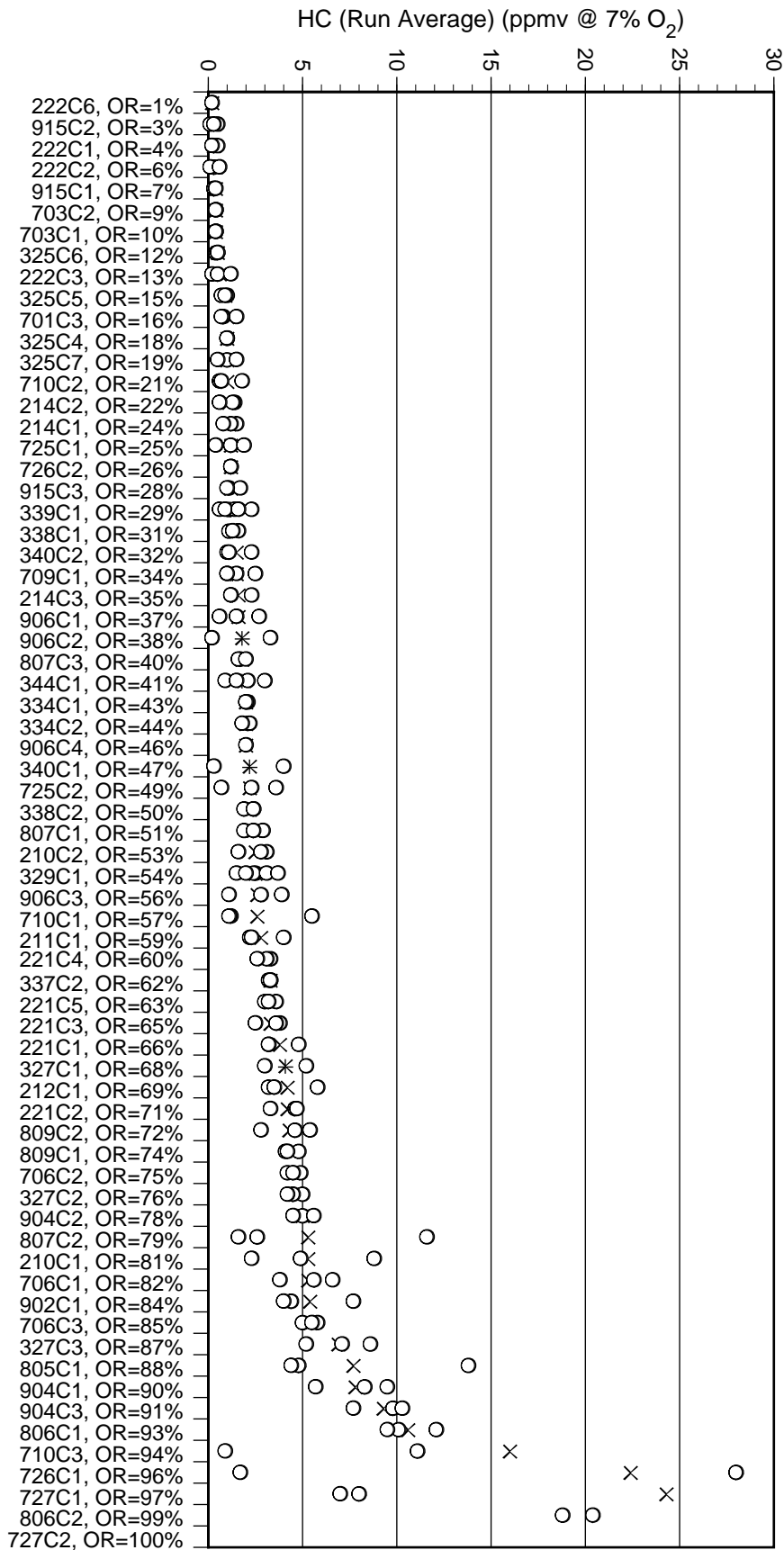


Total Chlorine -- LWAKs -- 6% MACT Expanded Universe

HC (Run Average) (ppmv @ 7% O₂)

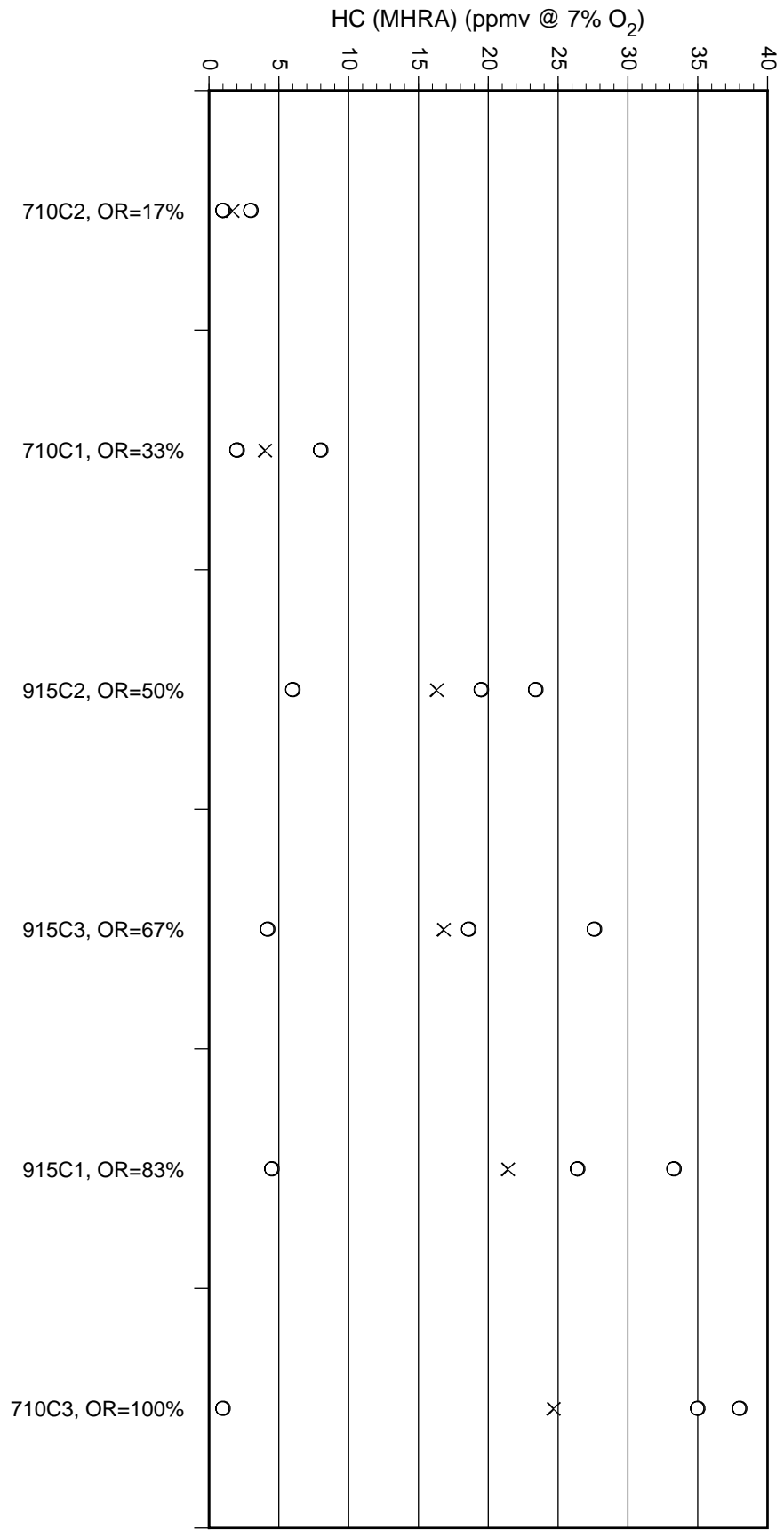


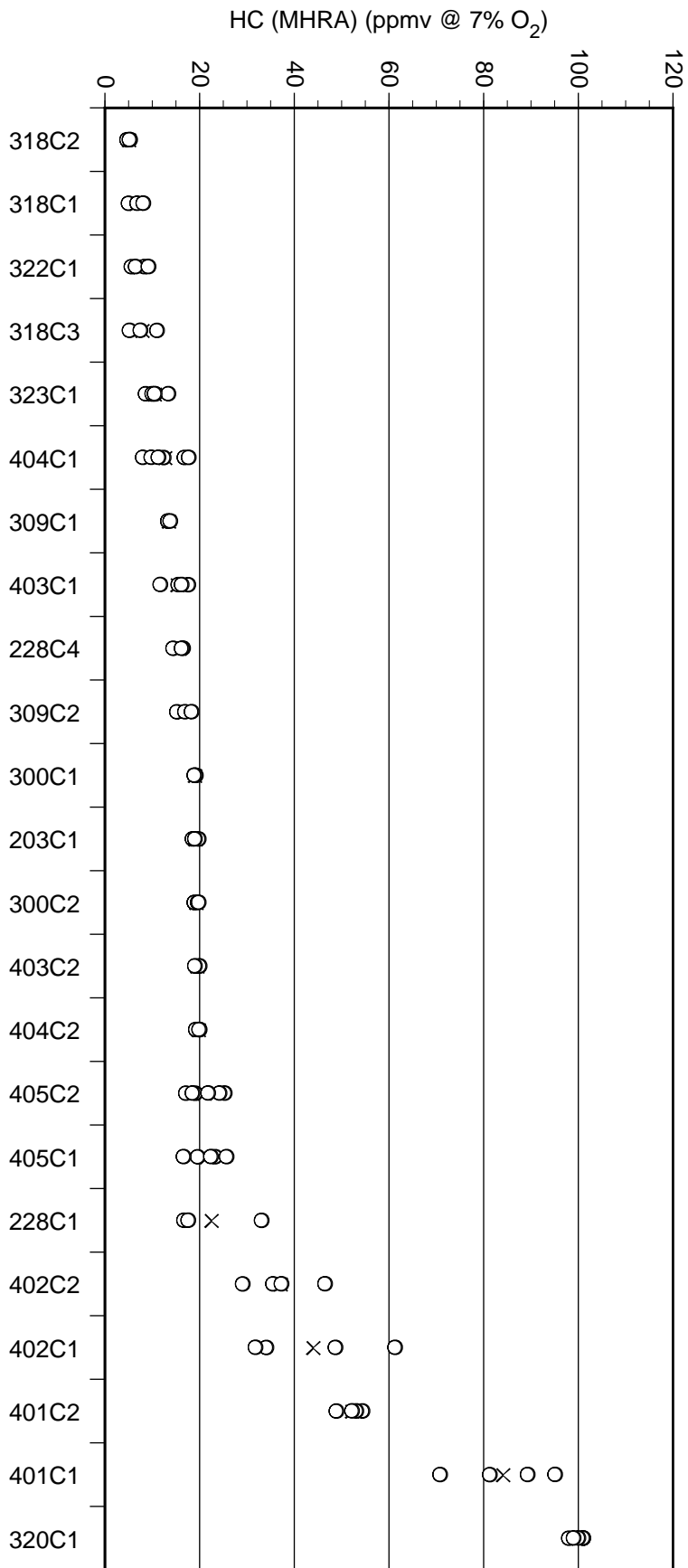
HC (RA) -- Incinerators -- Entire Universe



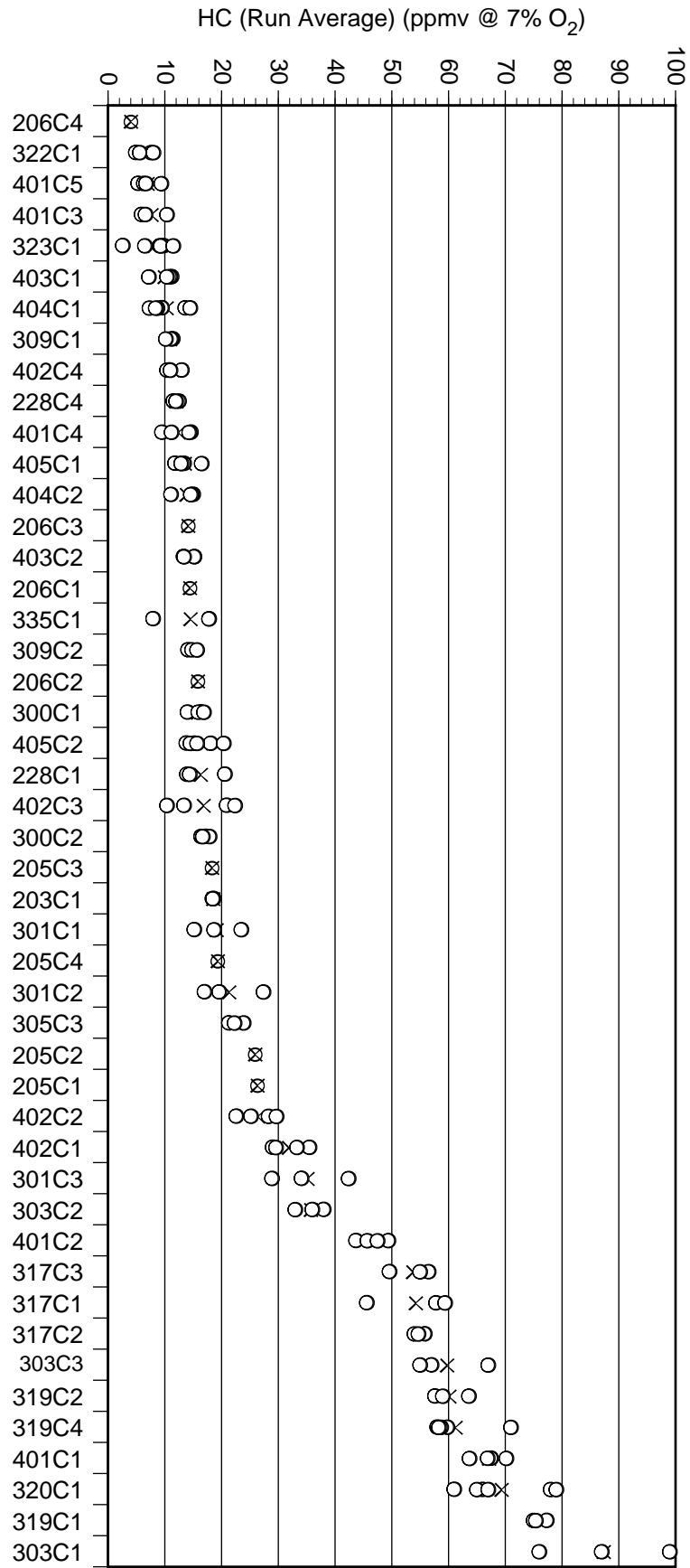
HC (RA) -- Incinerators -- Entire Universe

HC (MHRA) -- Incinerators -- Entire Universe

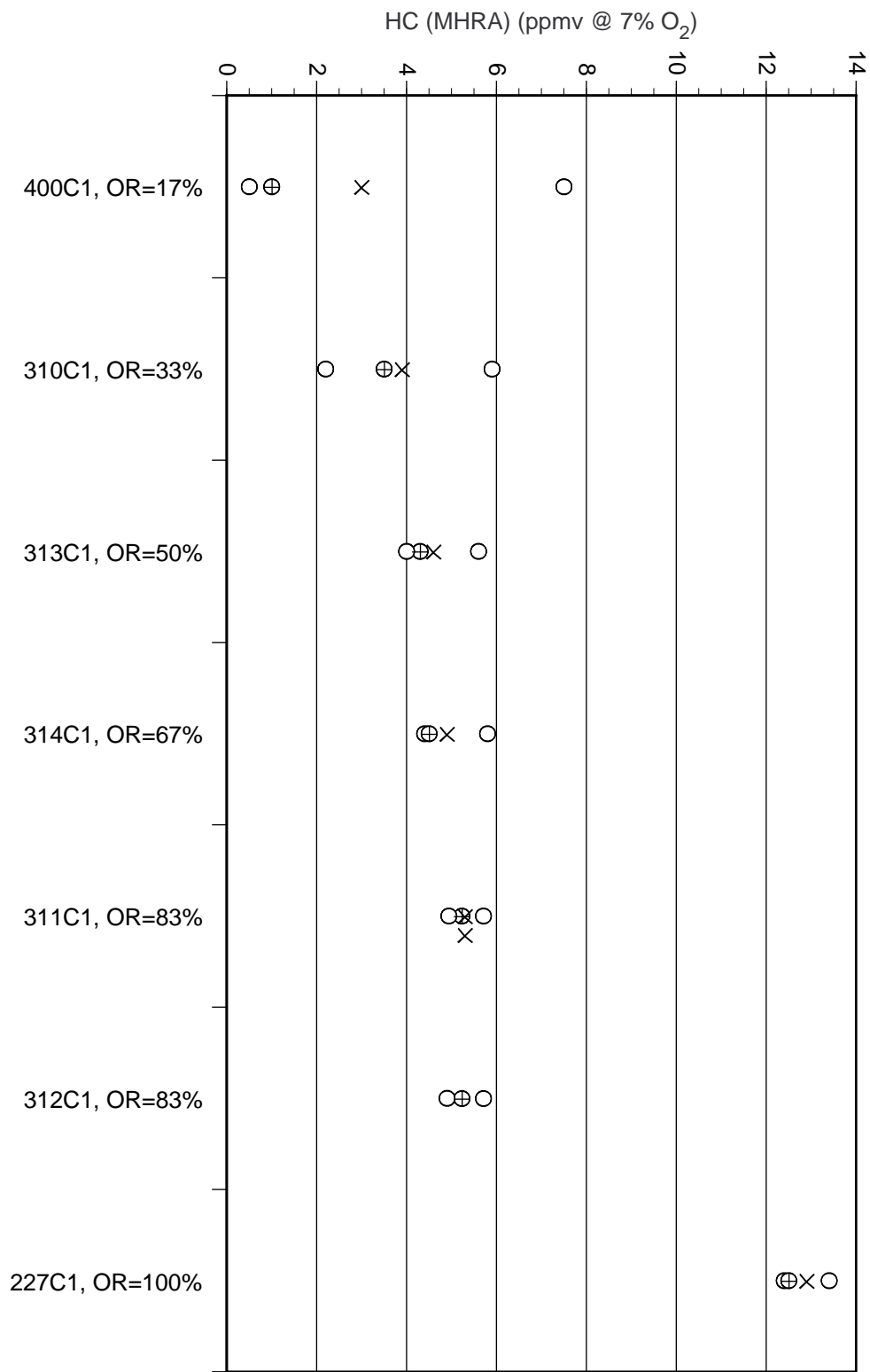




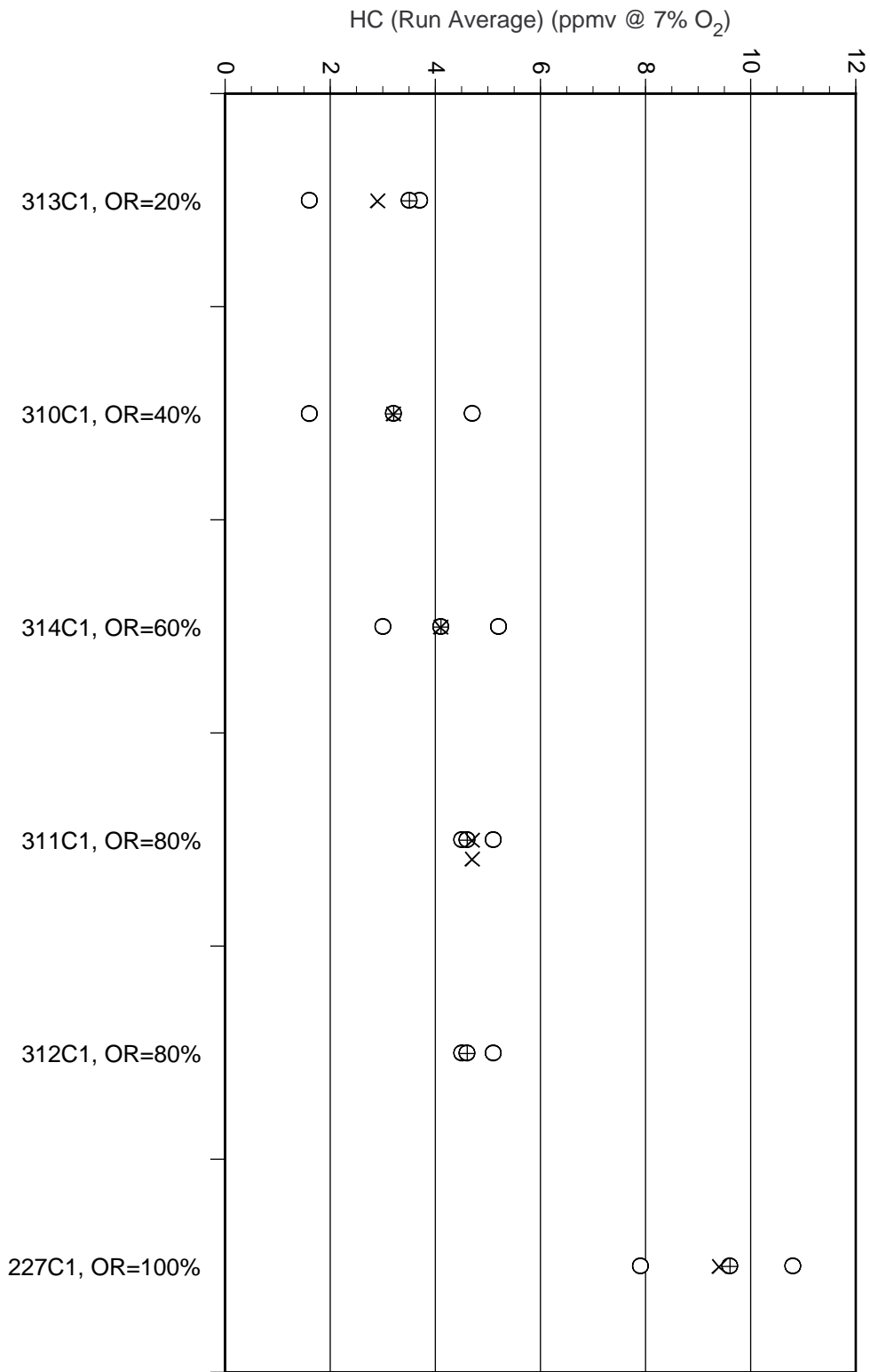
HC (MHRA) -- Cement Kiln Main -- Entire Universe



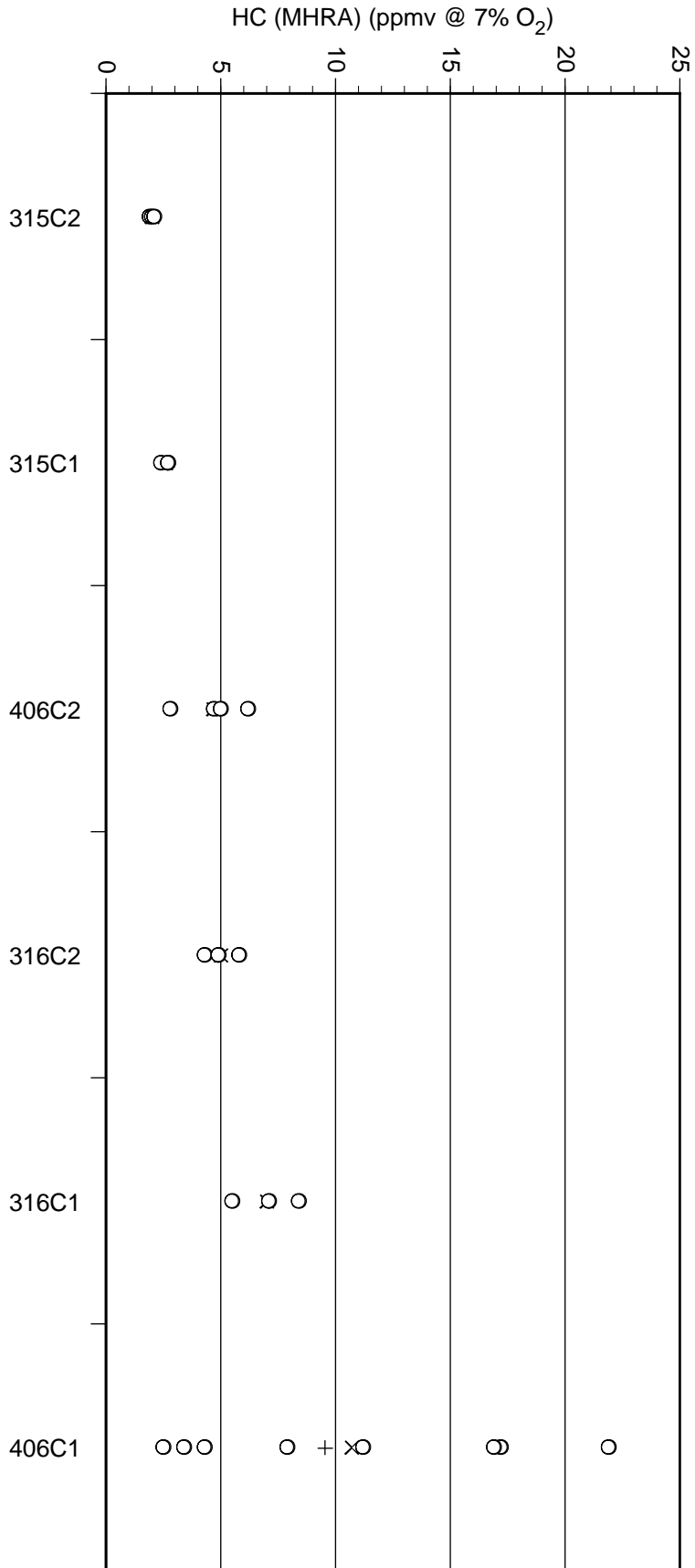
HC (RA) -- Cement Kiln Main -- Entire Universe



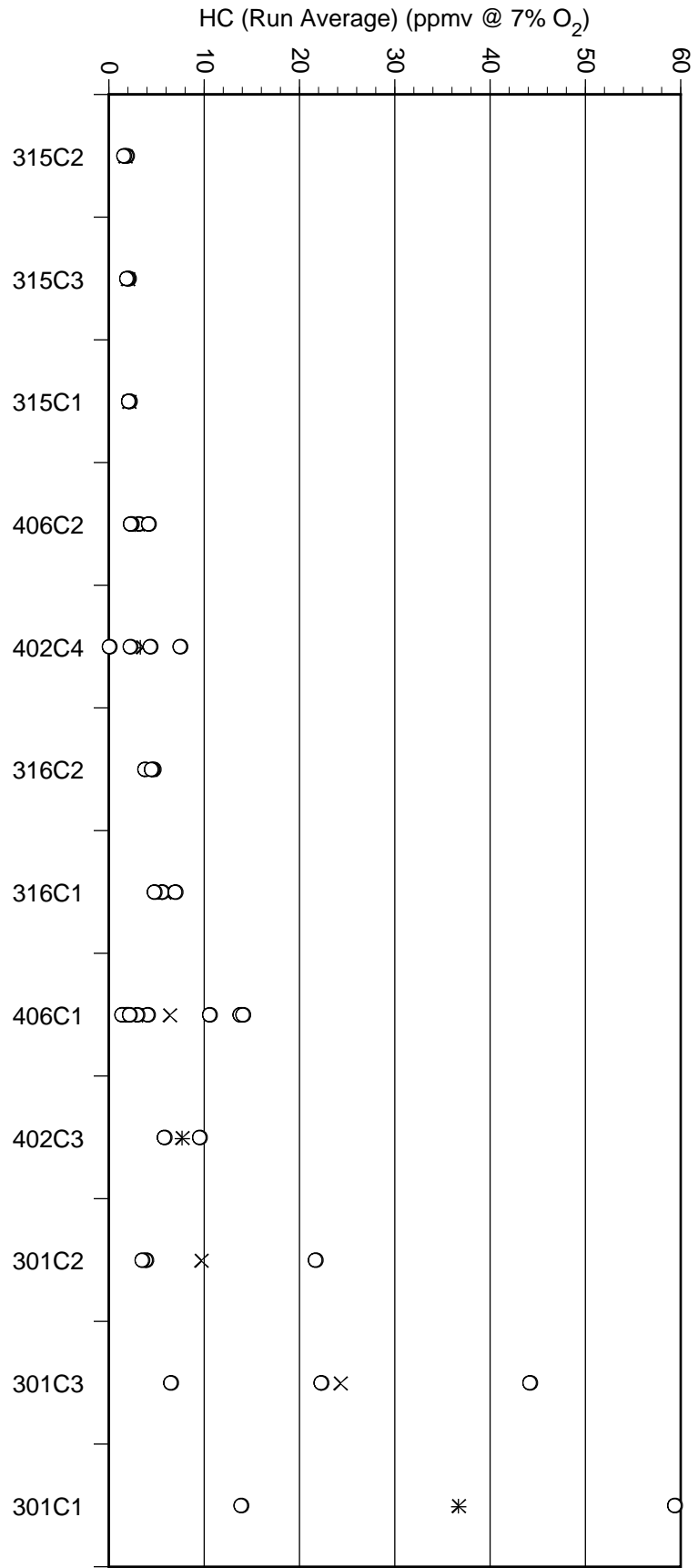
HC (MHRA) -- LWAKS -- Entire Universe



HC (RA) -- LWAKs -- Entire Universe

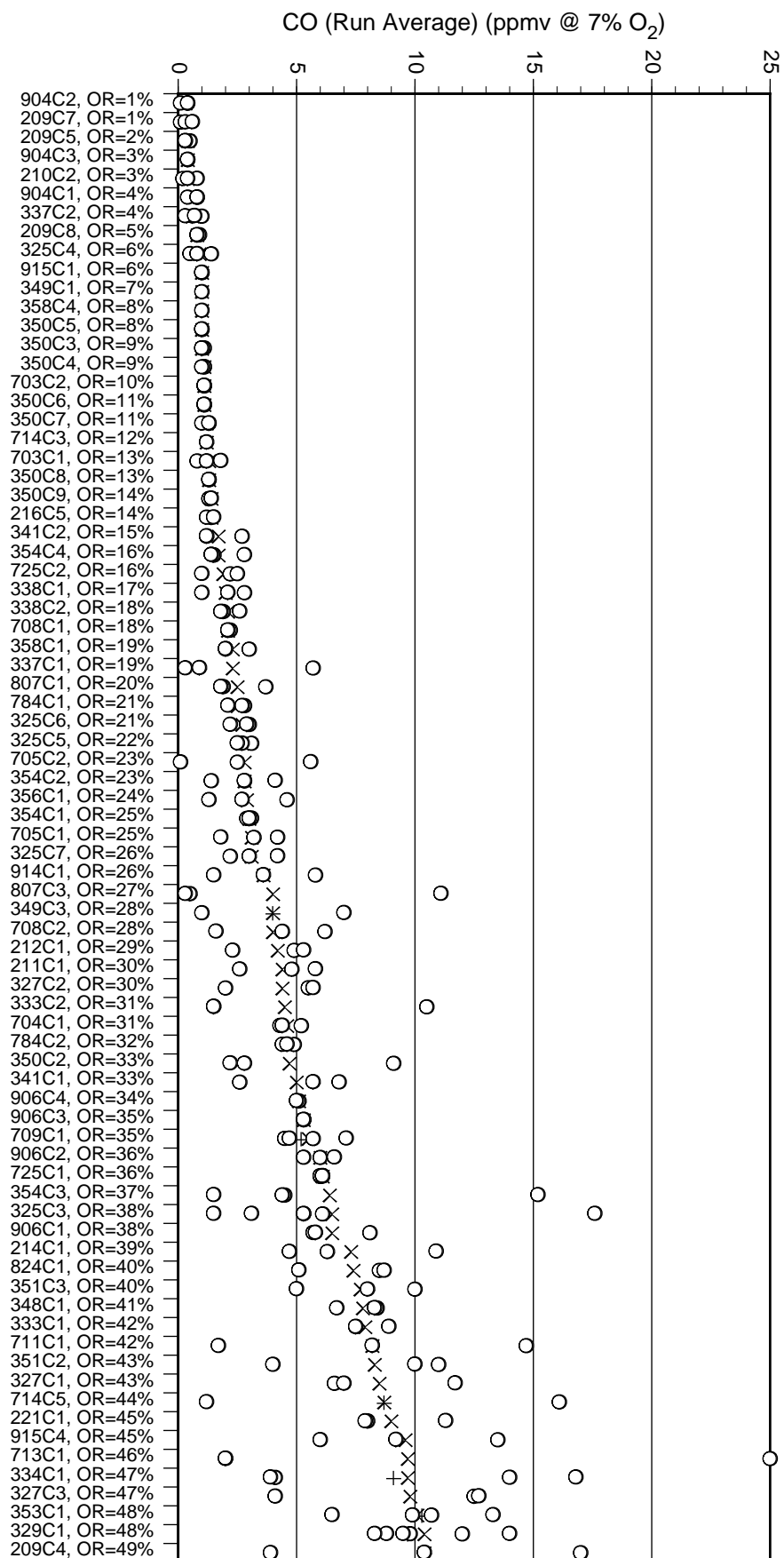


HC (MHRA) -- Cement Kiln Bypass -- Entire Universe

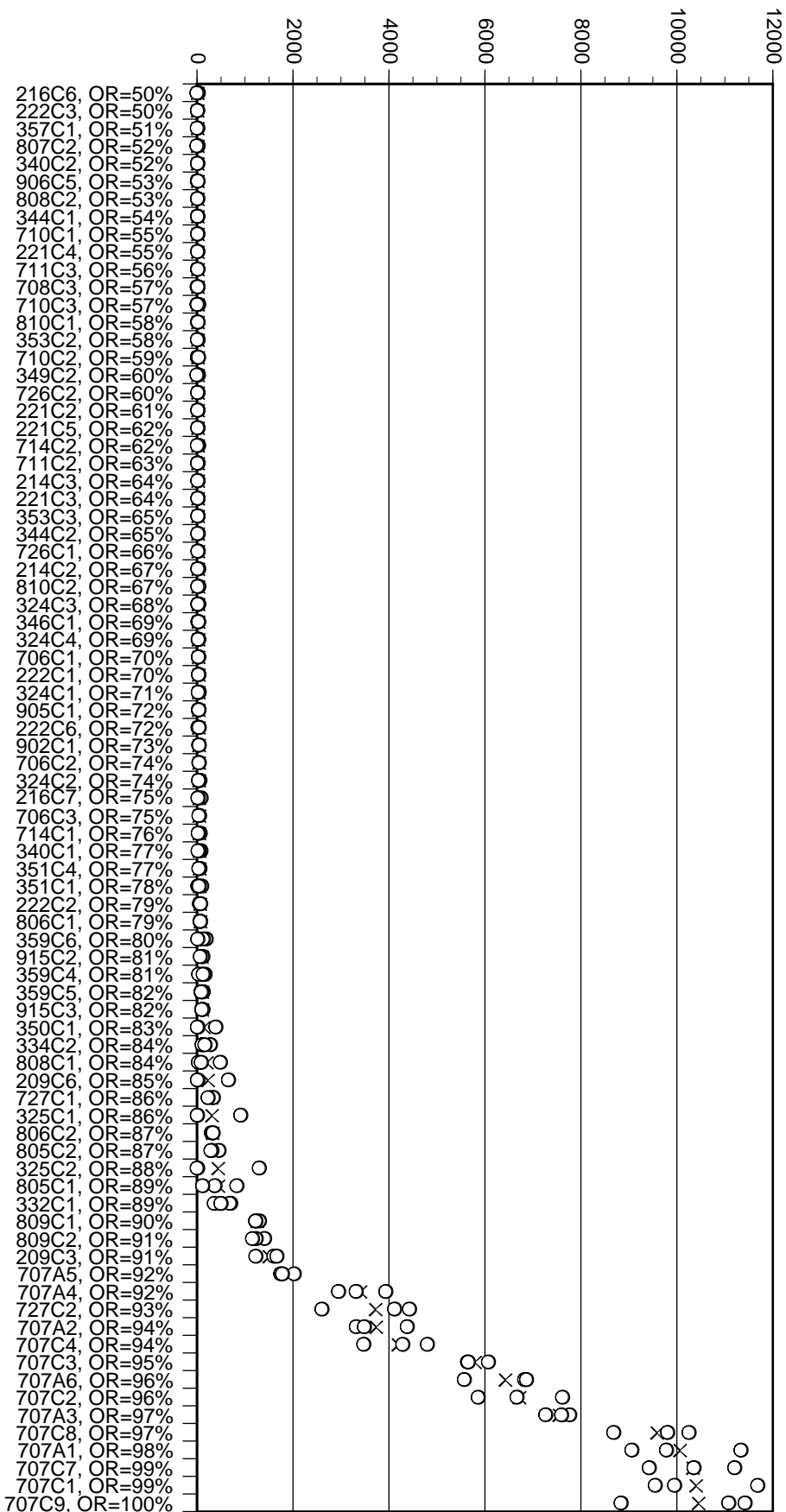


HC (RA) -- Cement Kiln Bypass -- Entire Universe

CO (RA) -- Incinerators -- Entire Universe -- 1 of 2

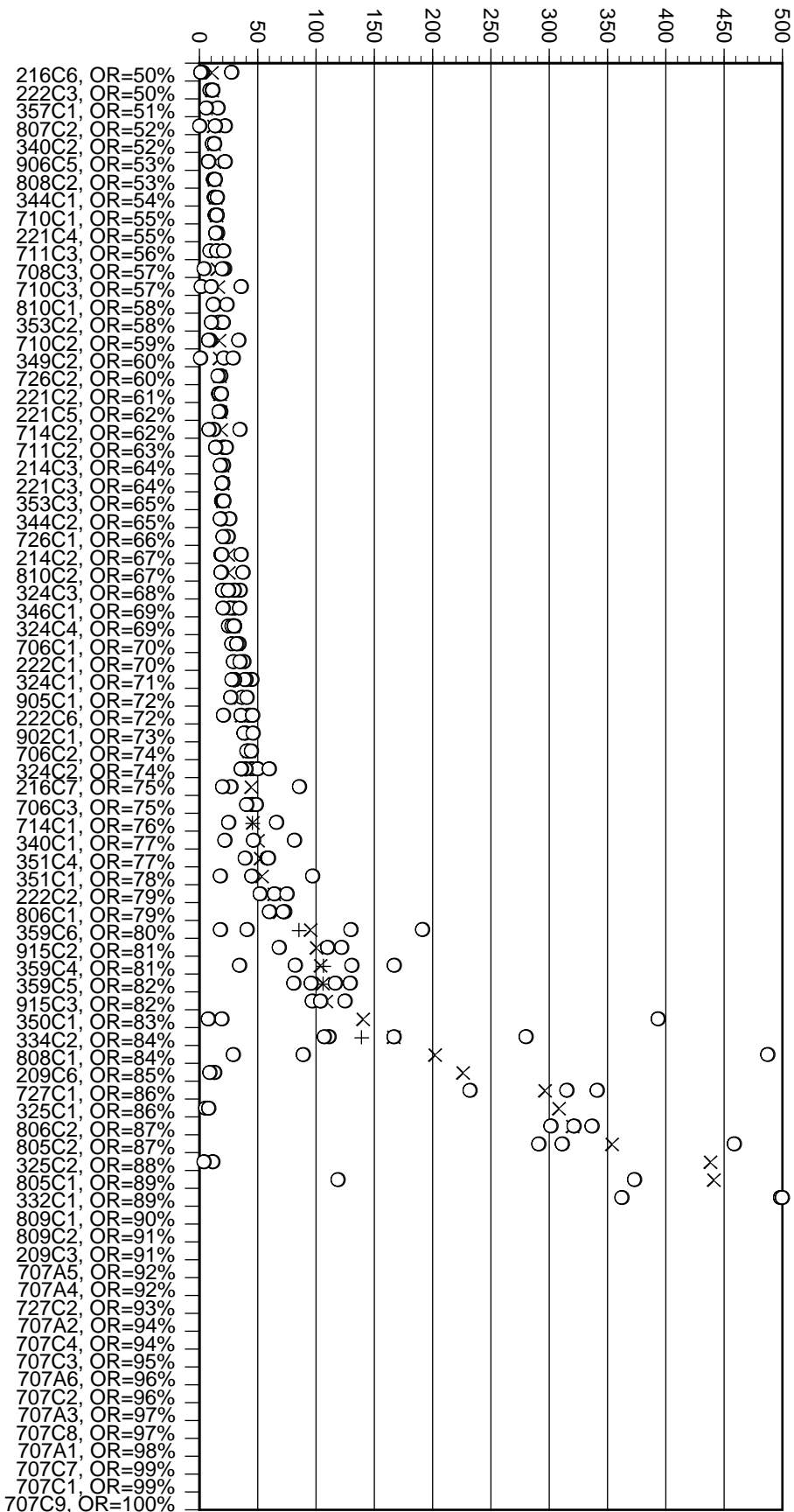


CO (Run Average) (ppmv @ 7% O₂)

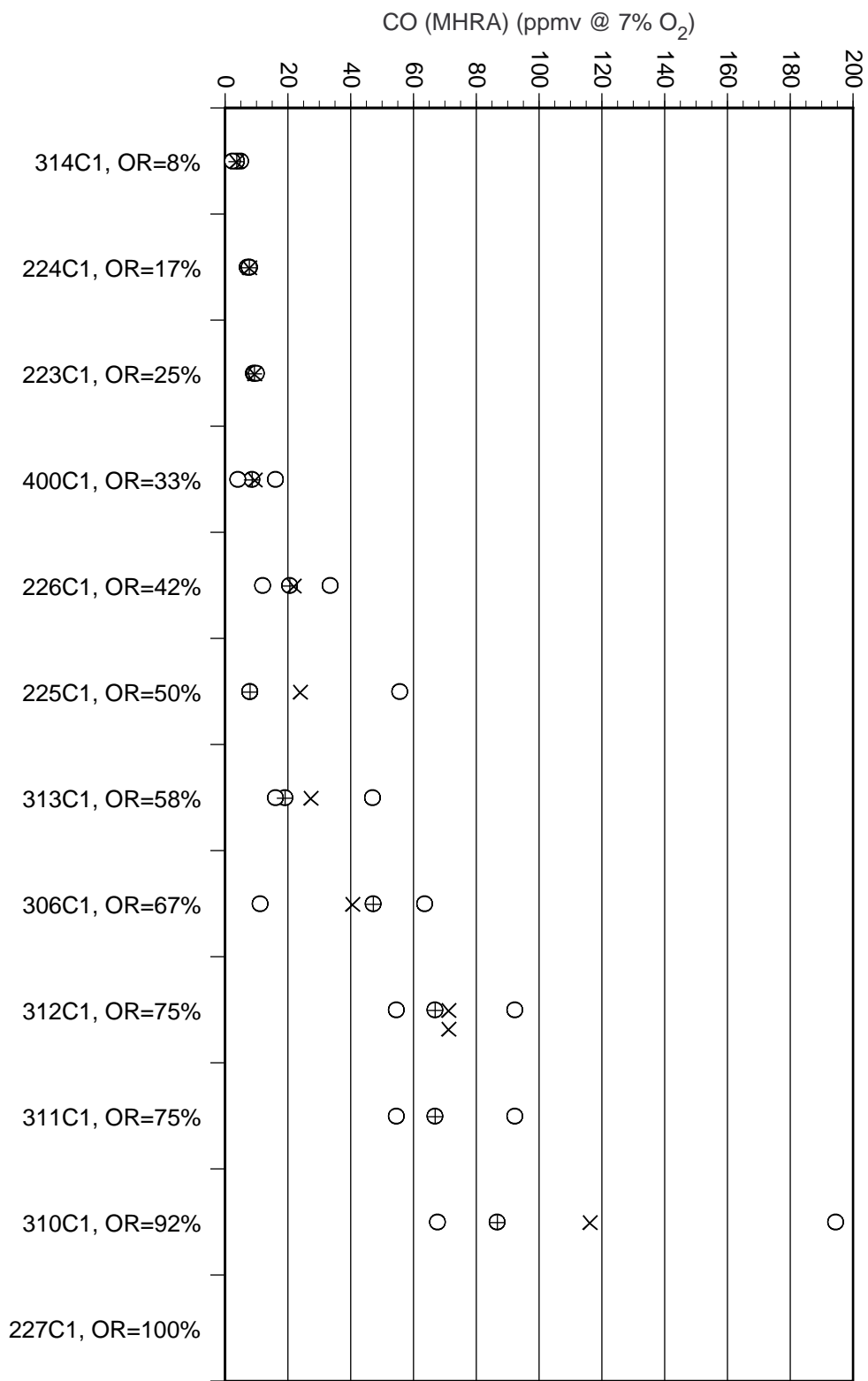


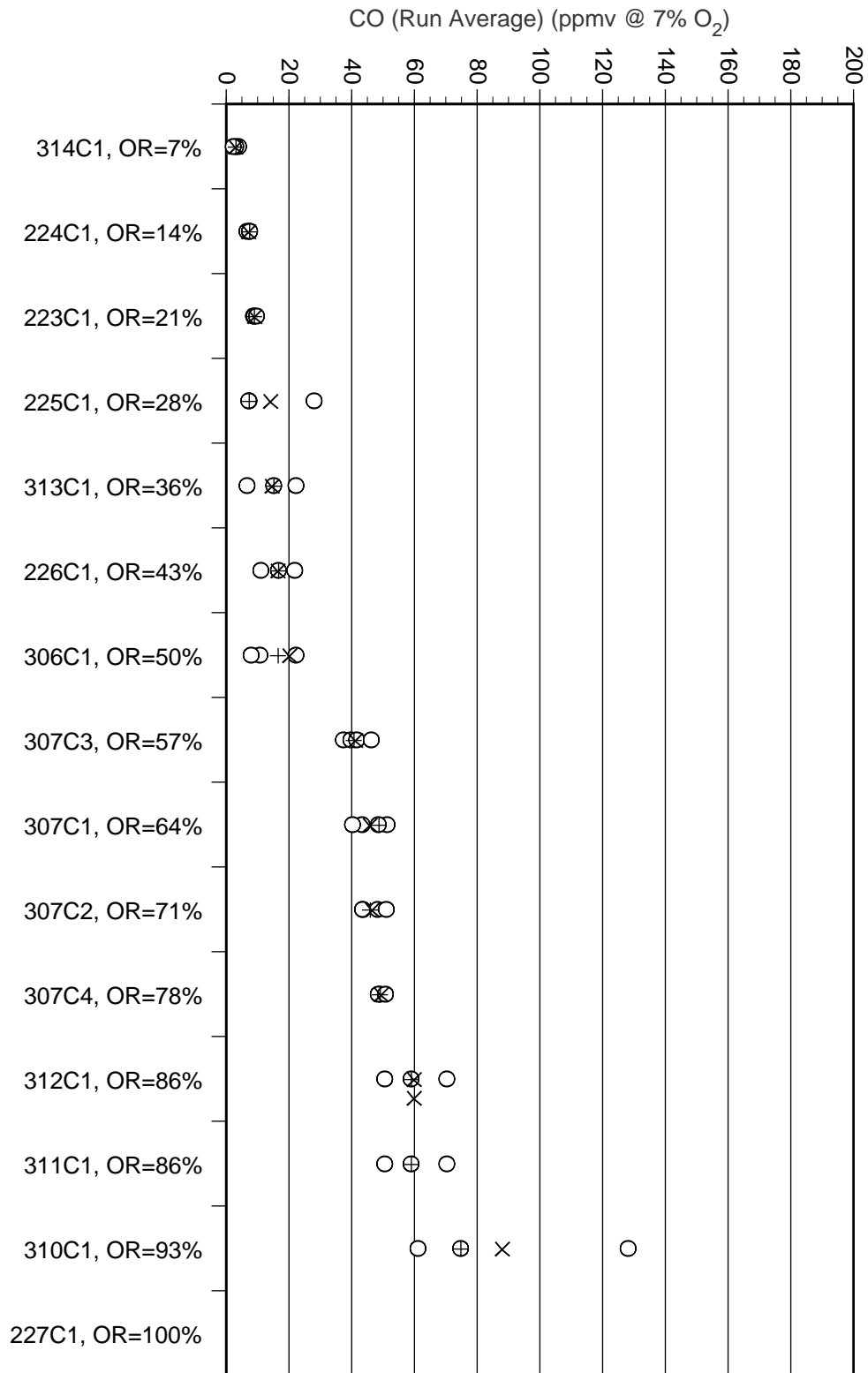
CO (RA) -- Incinerators -- Entire Universe -- 2 of 2

CO (Run Average) (ppmv @ 7% O₂)

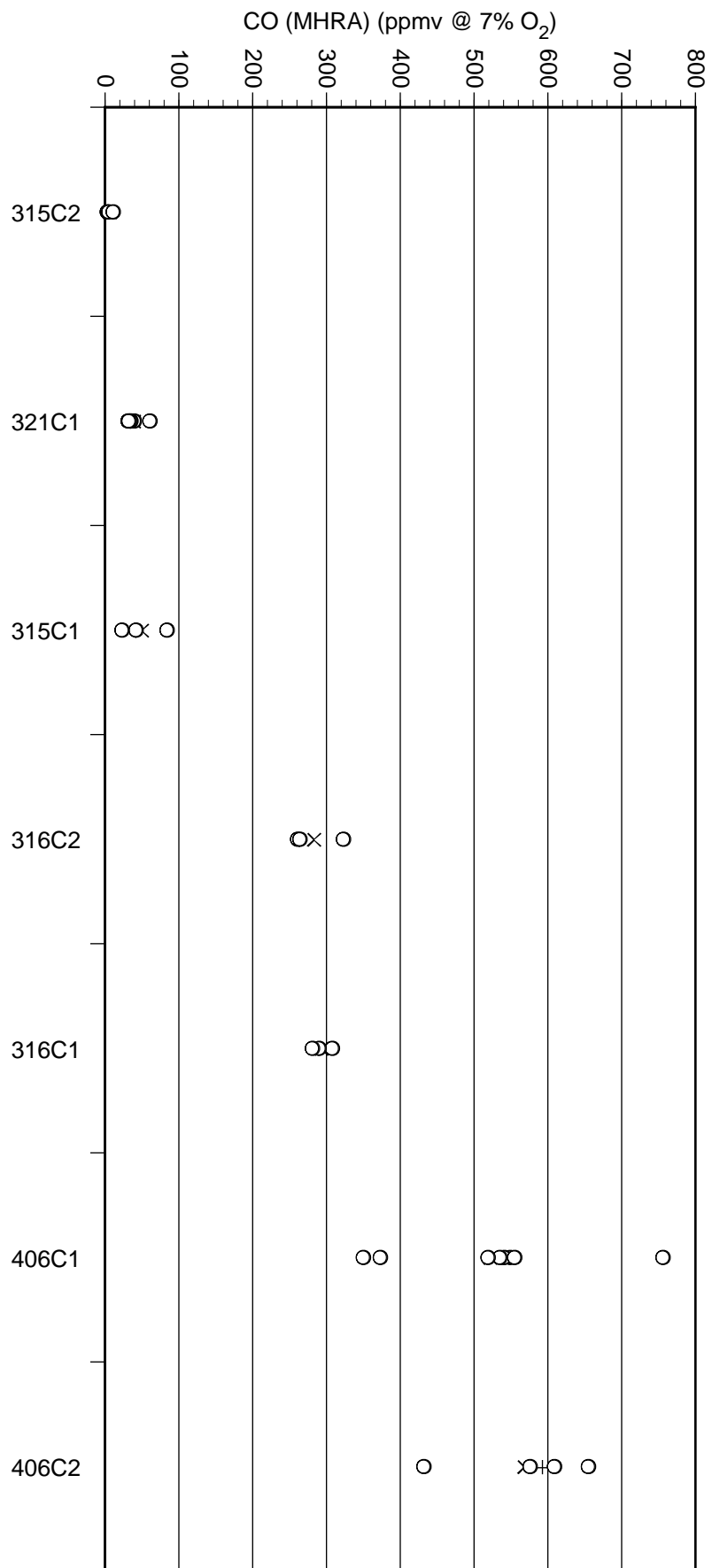


CO (RA) -- Incinerators -- Entire Universe -- 2 of 2

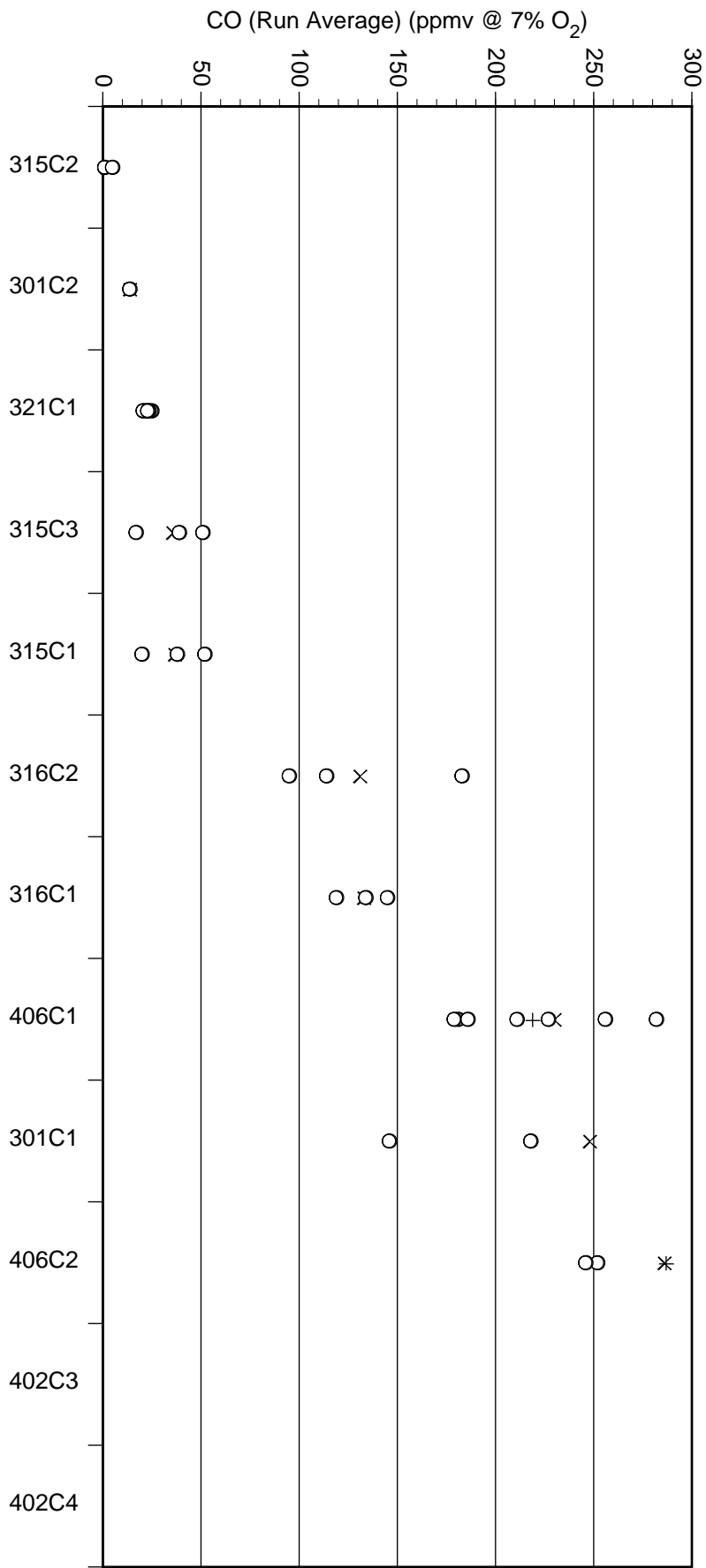




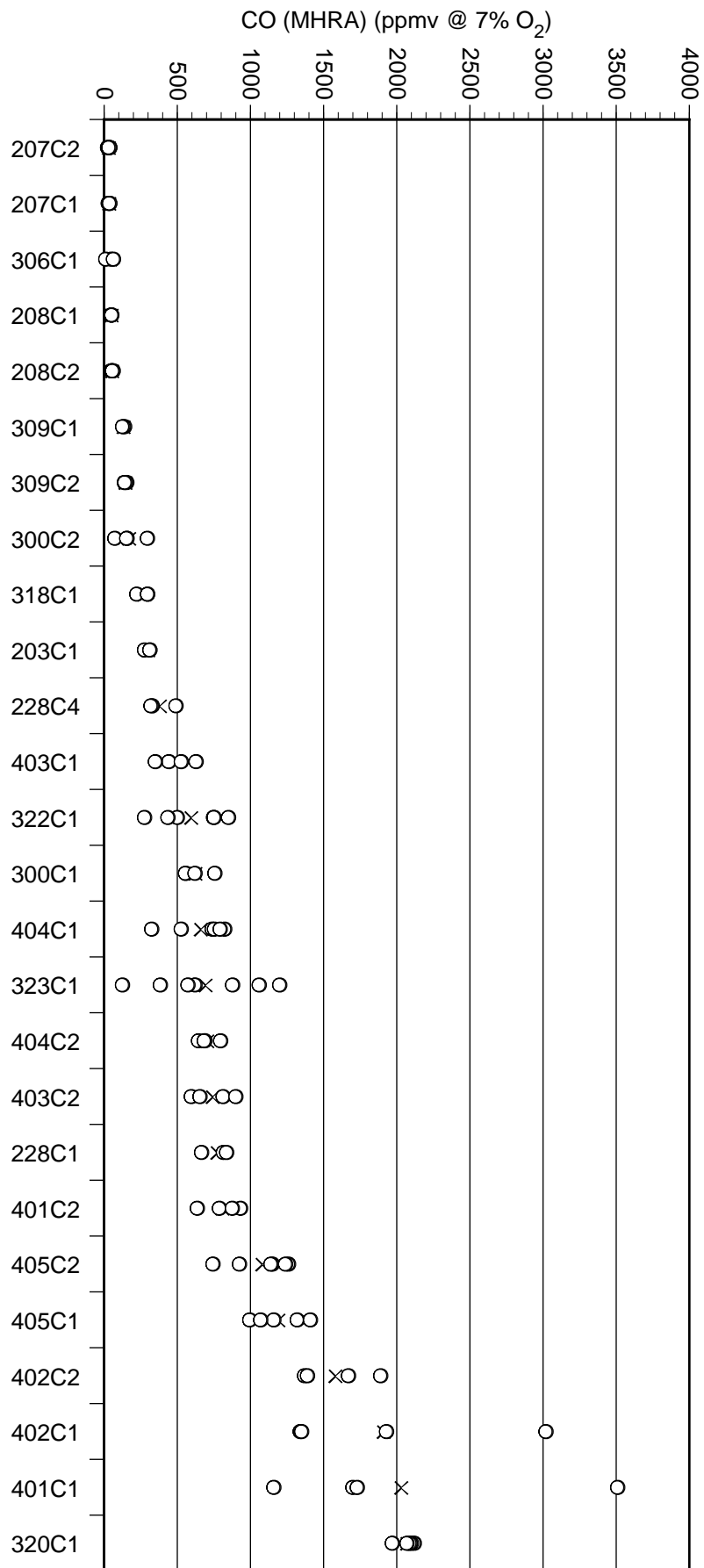
CO (RA) -- LWAKs -- Entire Universe



CO (MHRA) -- Cement Kiln Bypass -- Entire Universe

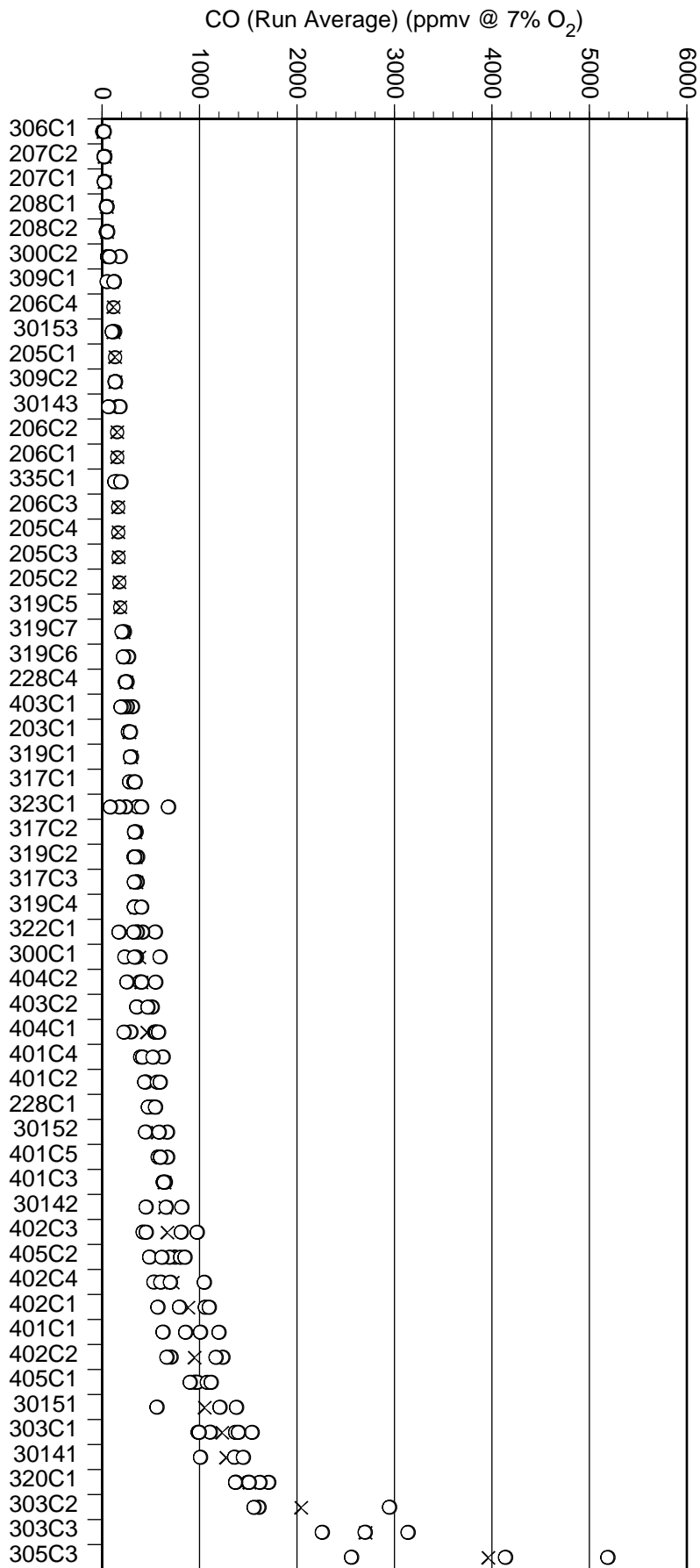


CO (RA) -- Cement Kiln Bypass -- Entire Universe



CO (MHRA) -- Cement Kiln Main -- Entire Universe

CO (RA) -- Cement Kiln Main Stack -- Entire Universe



CO (RA) -- Cement Kiln Main Stack -- Entire Universe

