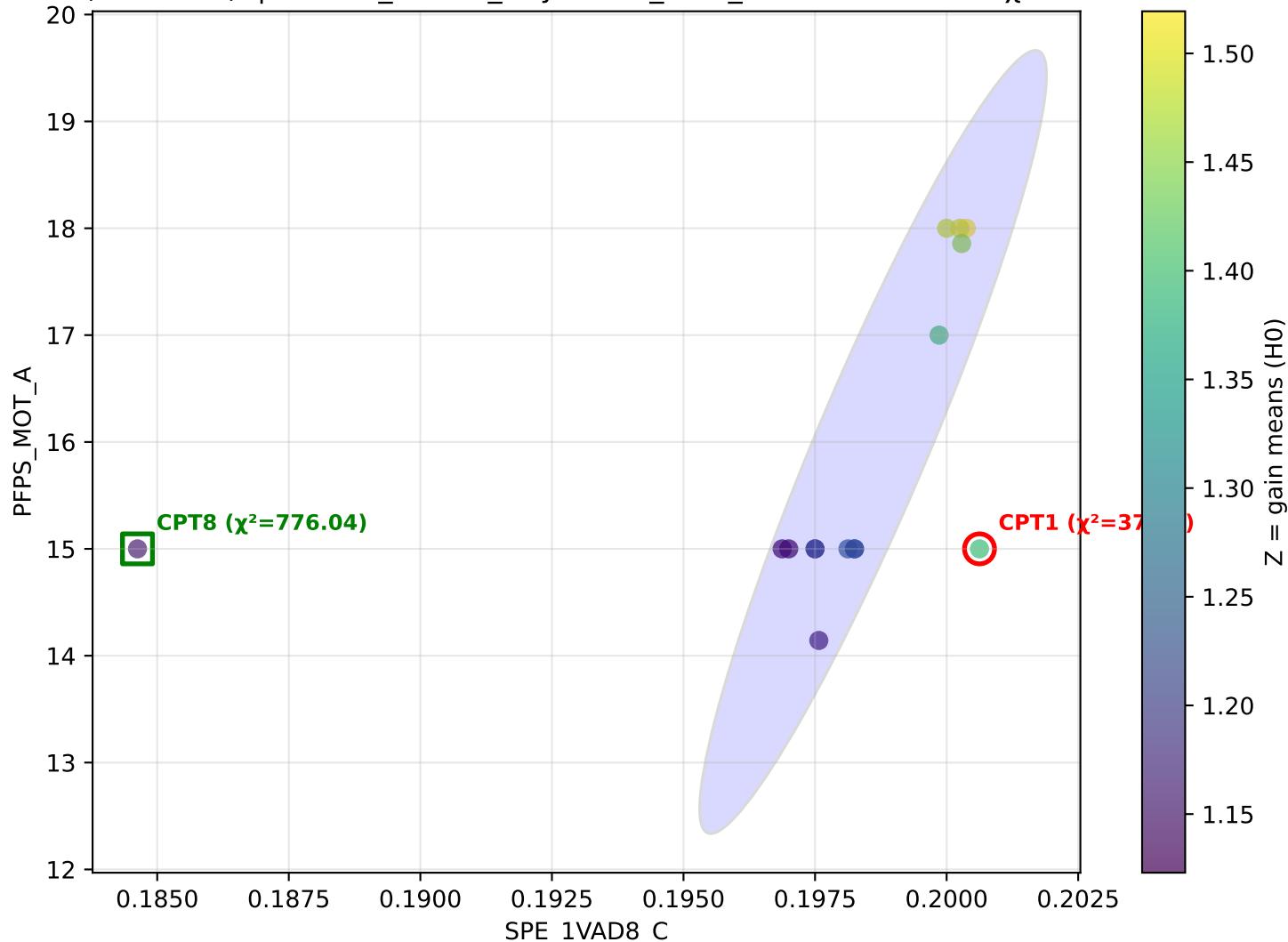


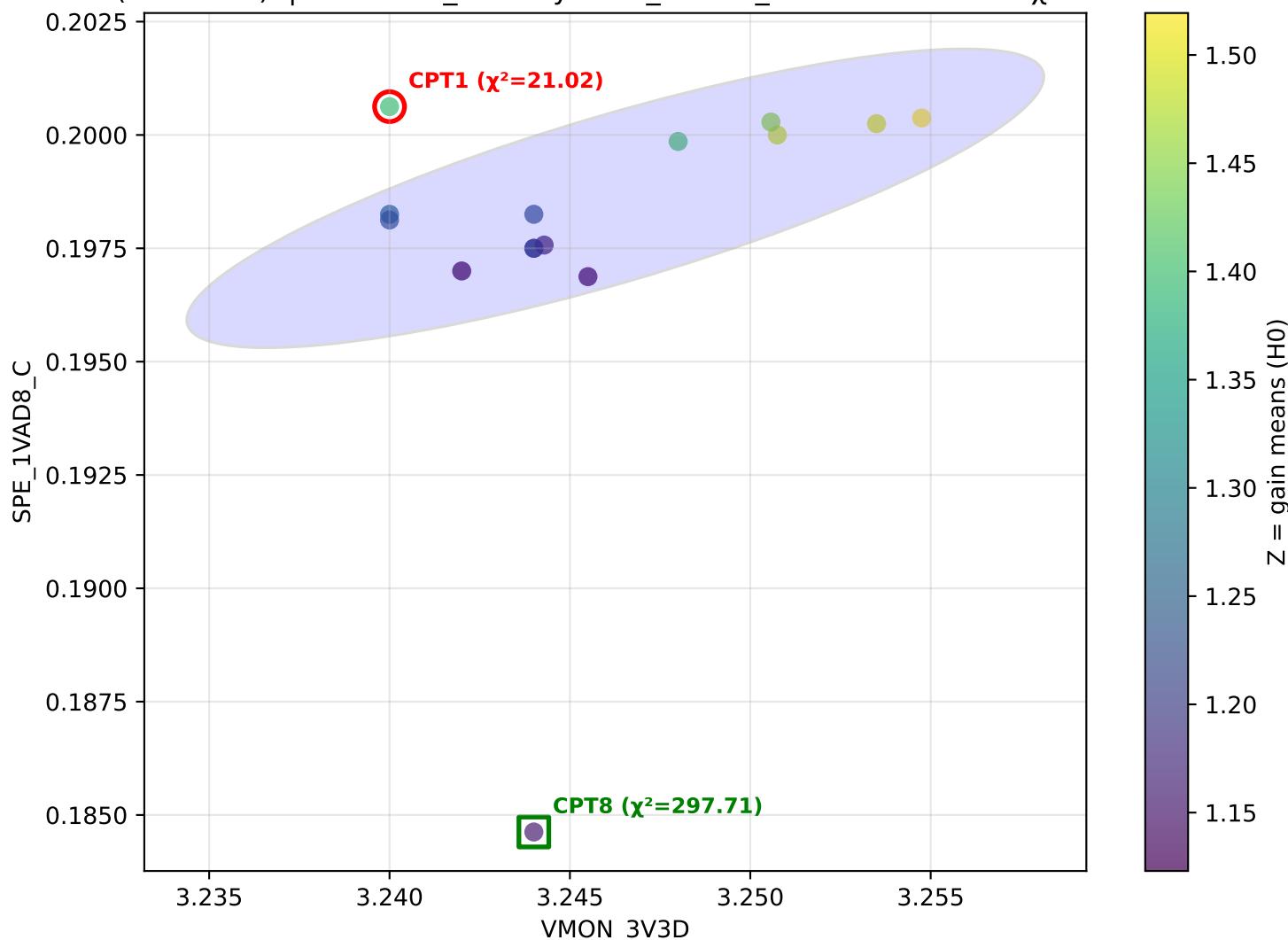
## H0 (withCPT1)

Pairs CPT1-significant ( $\chi^2 > 6$ ) in ALL settings

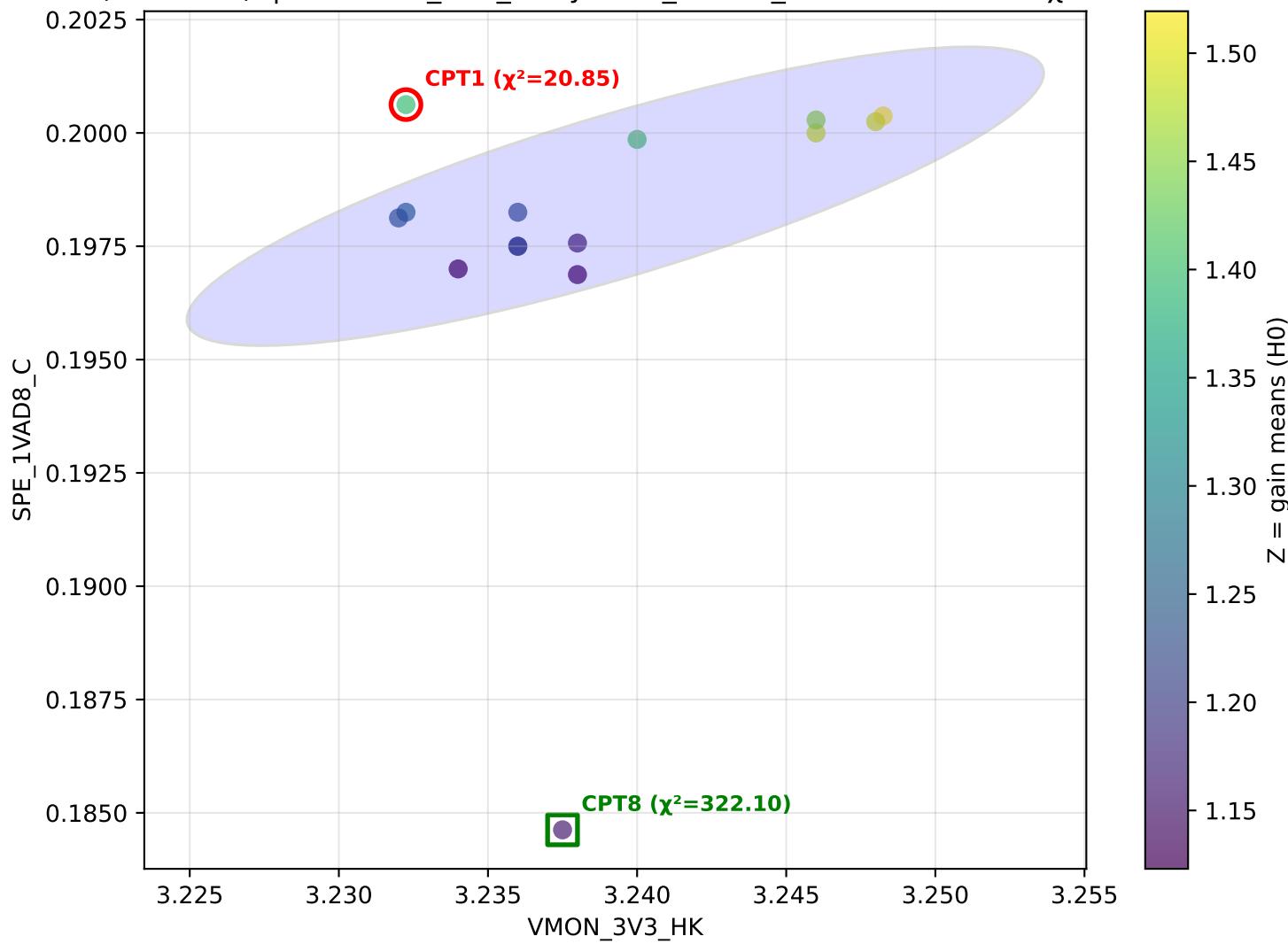
H0 (withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_MOT\_A z=H0 — CPT1  $\chi^2=37.31$



H0 (withCPT1) | x=VMON\_3V3D y=SPE\_1VAD8\_C z=H0 — CPT1  $\chi^2=21.02$



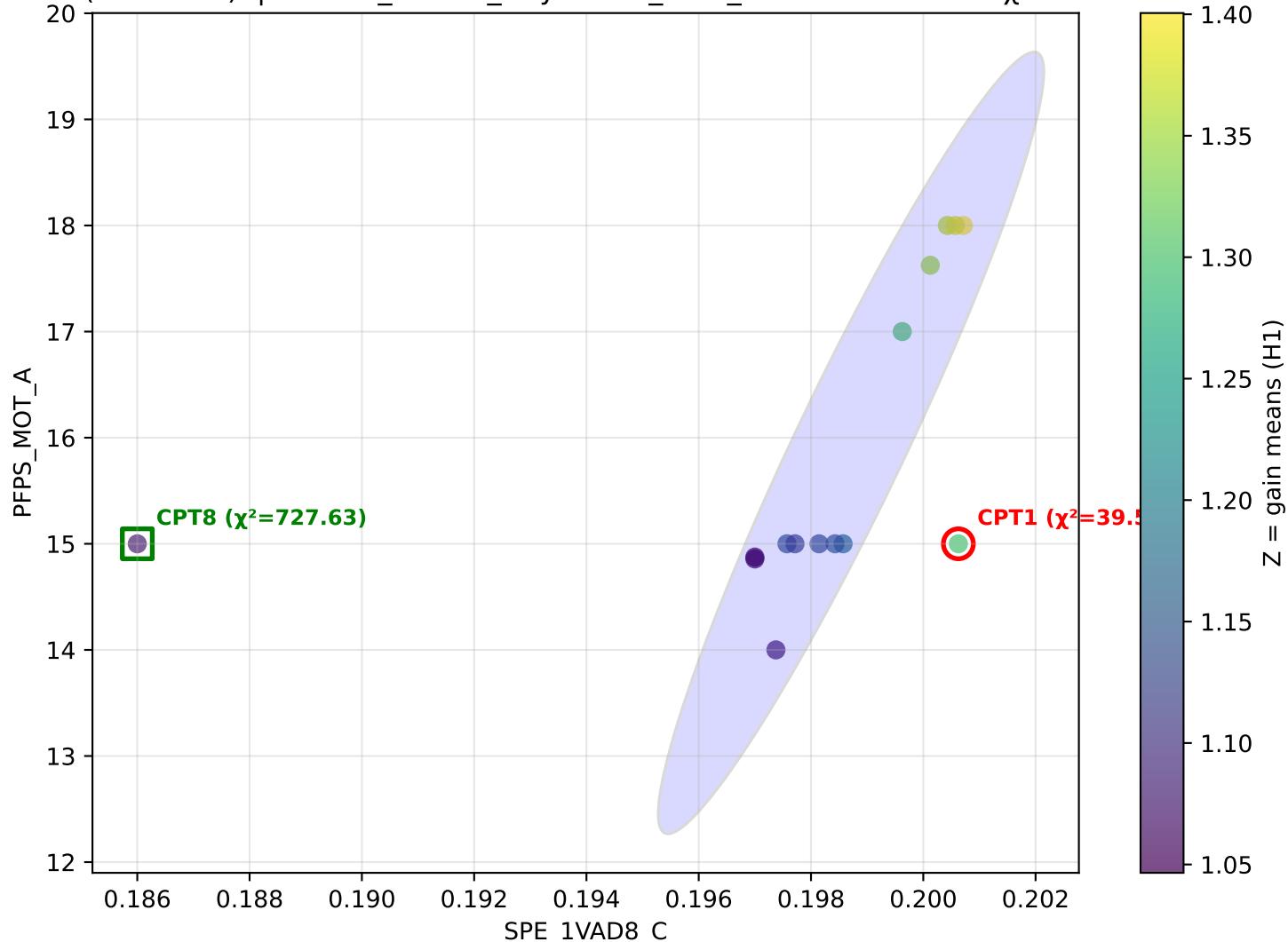
$H_0$  (withCPT1) |  $x=VMON\_3V3\_HK$   $y=SPE\_1VAD8\_C$   $z=H_0$  — CPT1  $\chi^2=20.85$



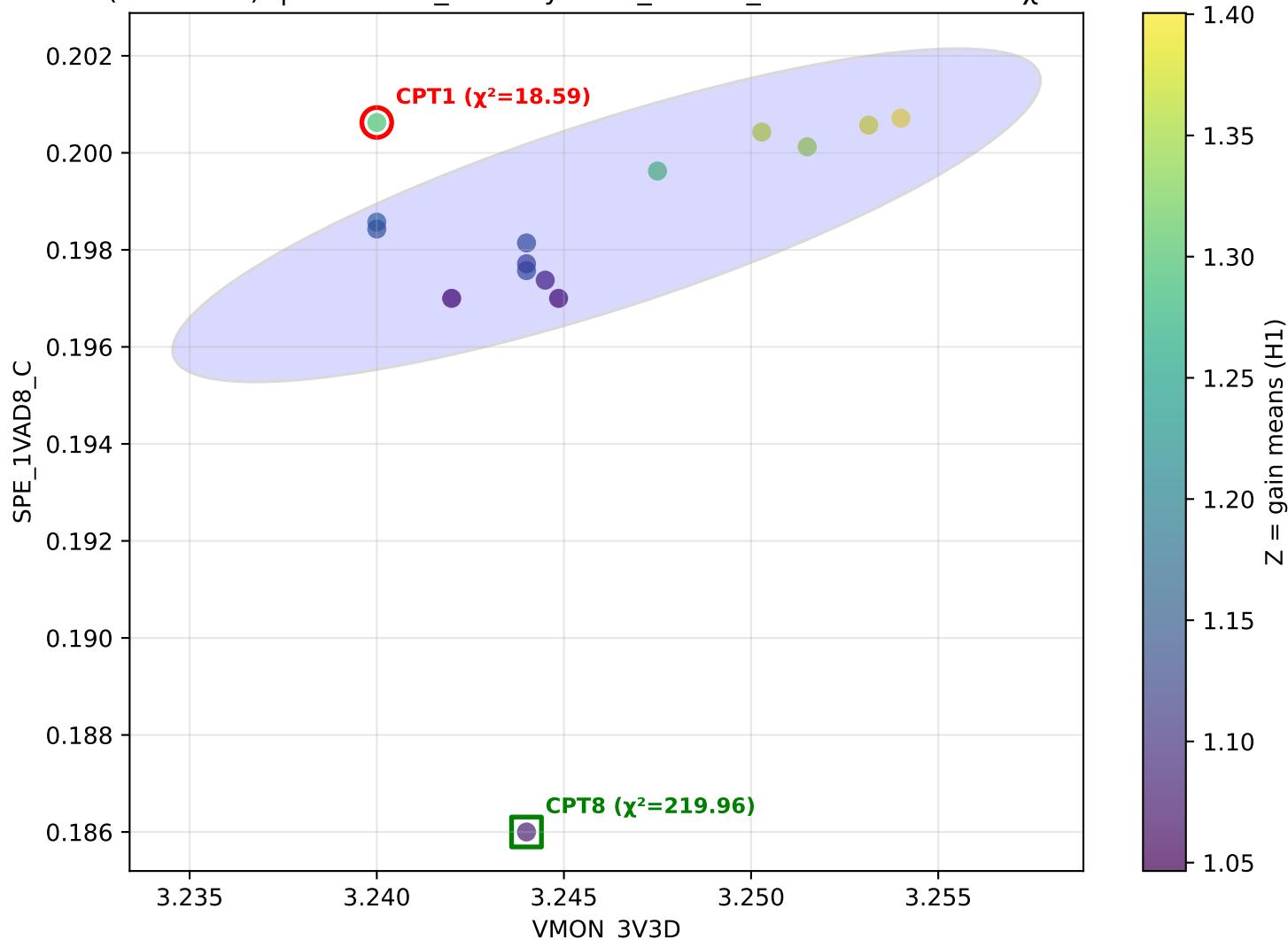
# H1 (withCPT1)

Pairs CPT1-significant ( $\chi^2 > 6$ ) in ALL settings

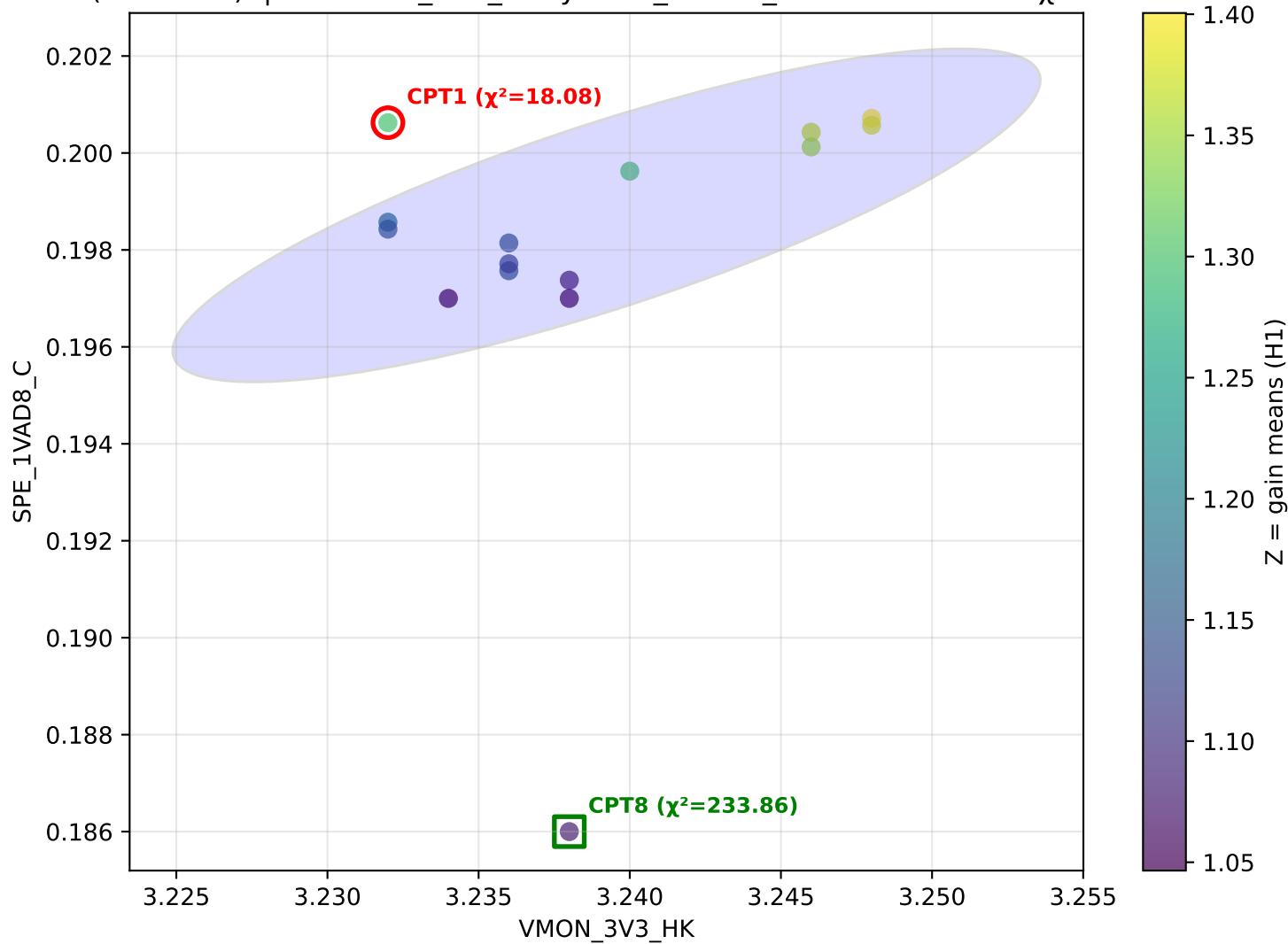
H1 (withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_MOT\_A z=H1 — CPT1  $\chi^2=39.51$



H1 (withCPT1) | x=VMON\_3V3D y=SPE\_1VAD8\_C z=H1 — CPT1  $\chi^2=18.59$



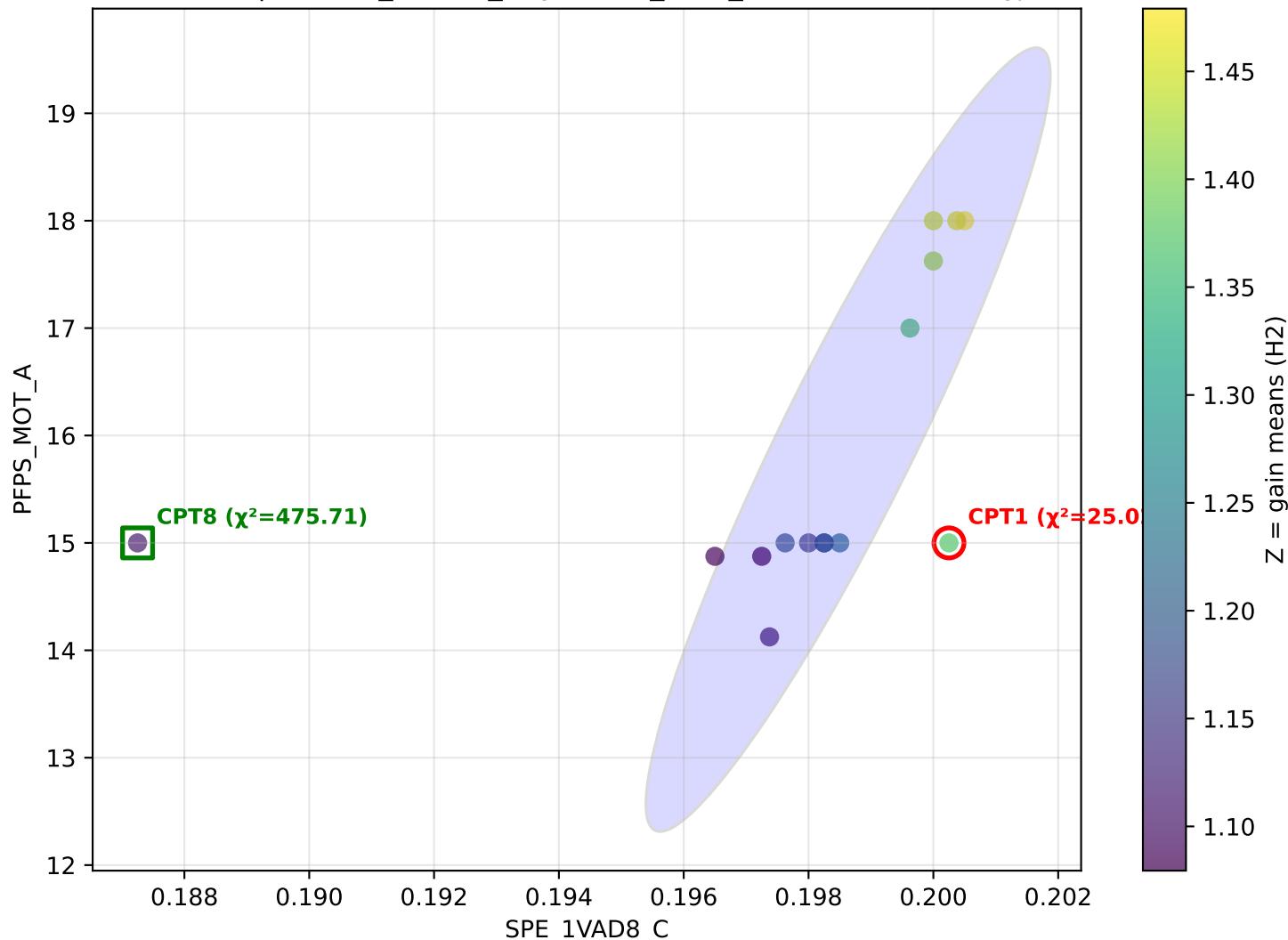
H1 (withCPT1) | x=VMON\_3V3\_HK y=SPE\_1VAD8\_C z=H1 — CPT1  $\chi^2=18.08$



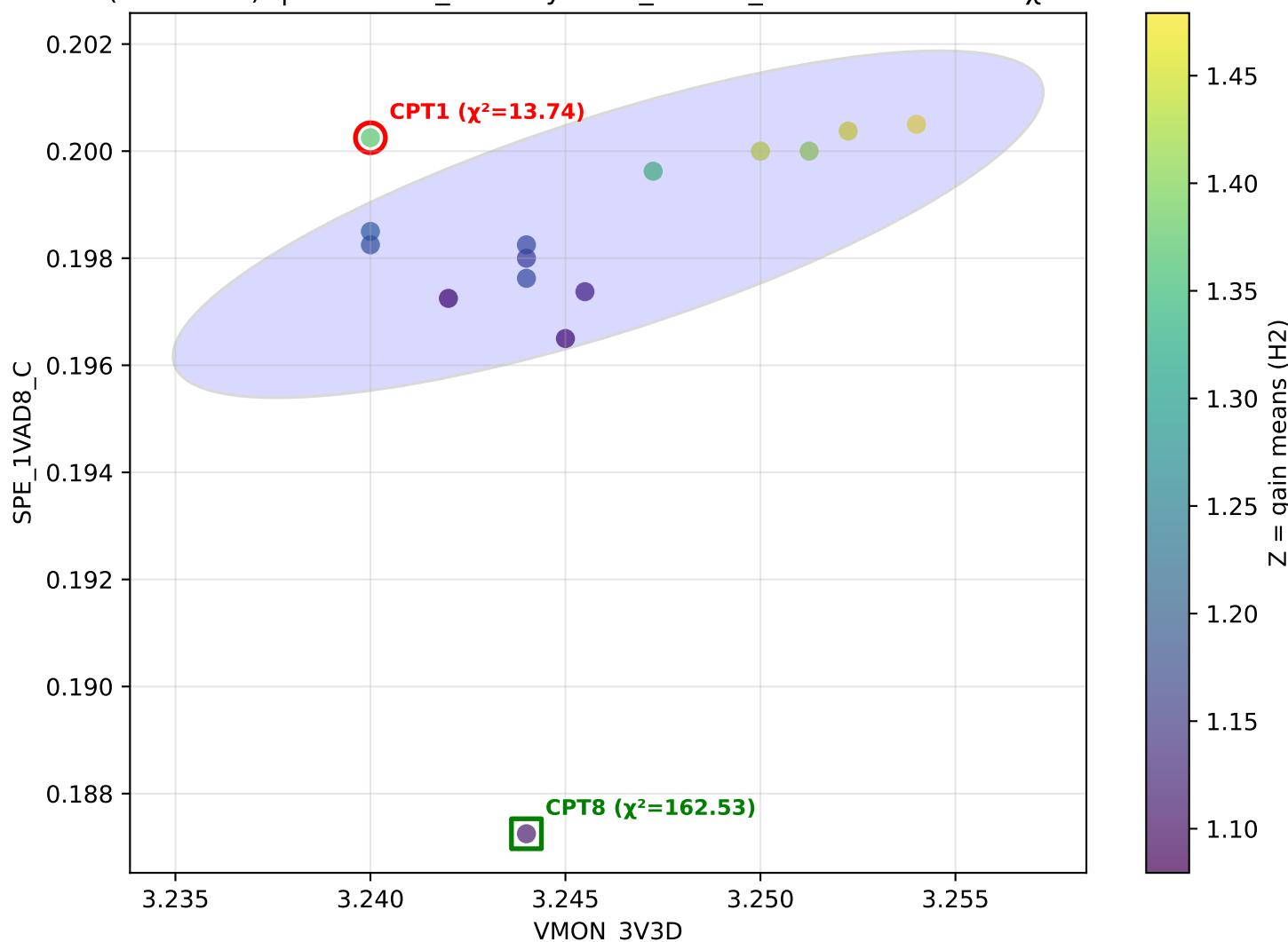
## H2 (withCPT1)

Pairs CPT1-significant ( $\chi^2 > 6$ ) in ALL settings

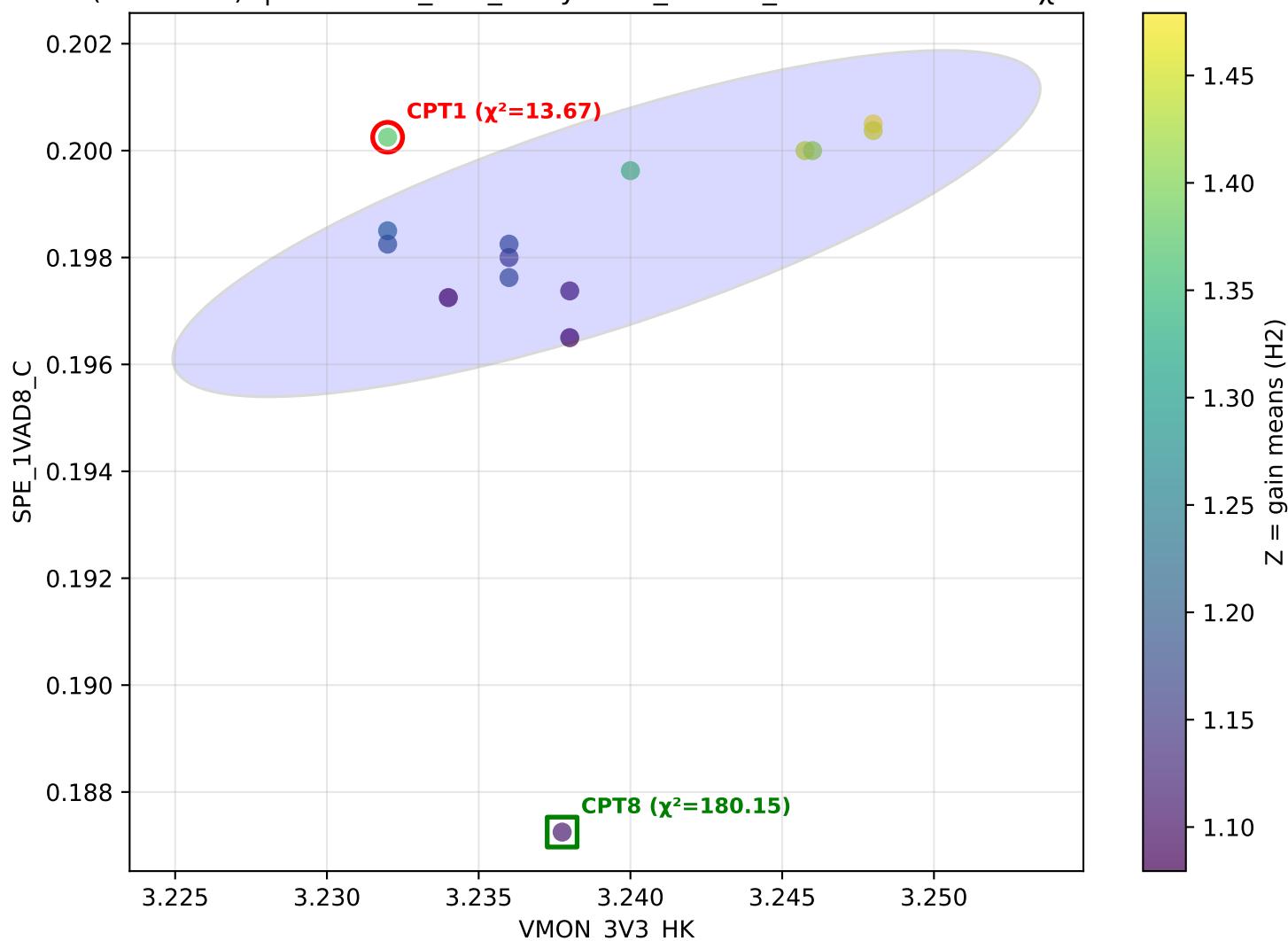
H2 (withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_MOT\_A}$   $z=\text{H2}$  — CPT1  $\chi^2=25.02$



H2 (withCPT1) | x=VMON\_3V3D y=SPE\_1VAD8\_C z=H2 — CPT1  $\chi^2=13.74$



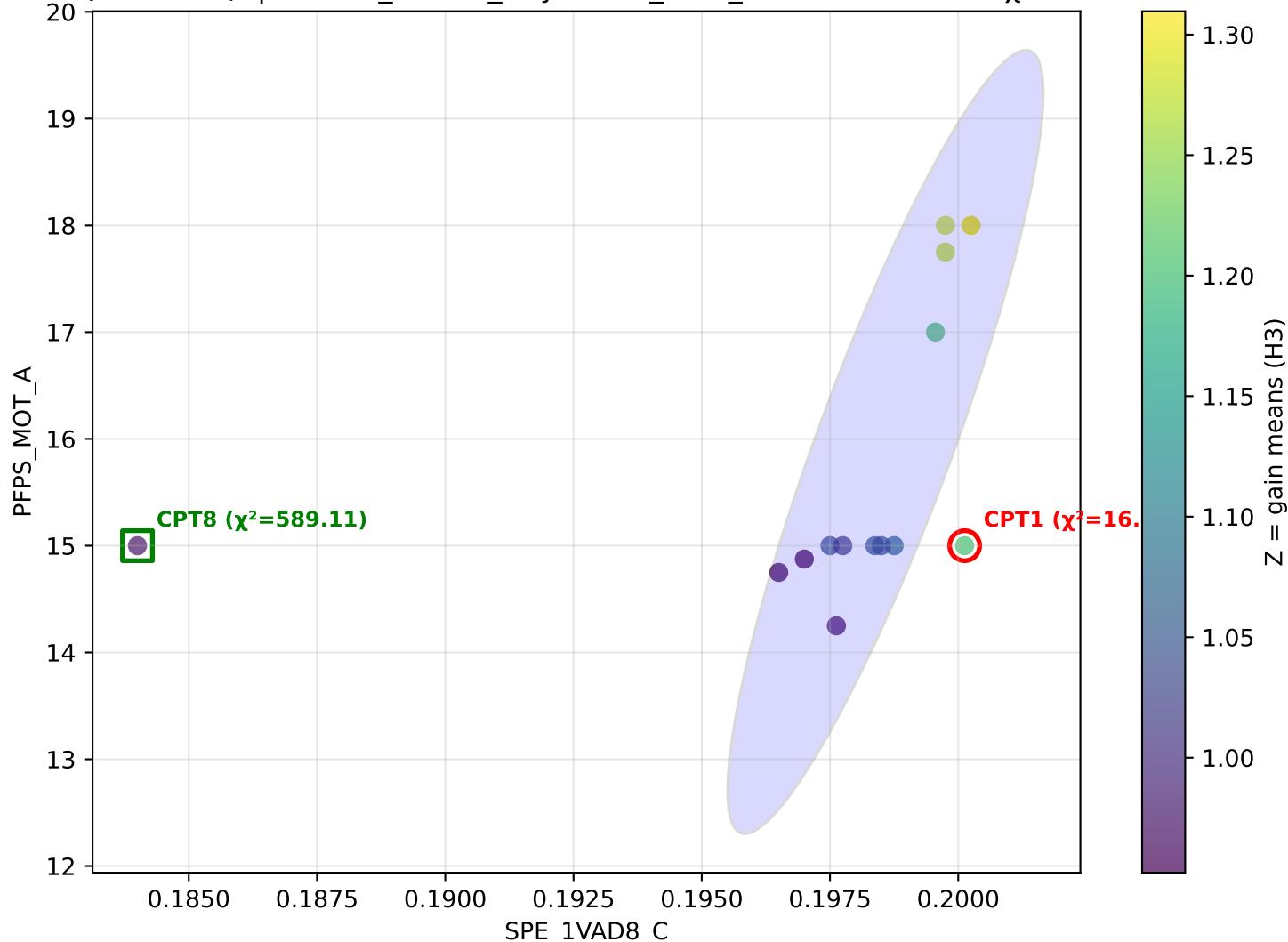
H2 (withCPT1) | x=VMON\_3V3\_HK y=SPE\_1VAD8\_C z=H2 — CPT1  $\chi^2=13.67$

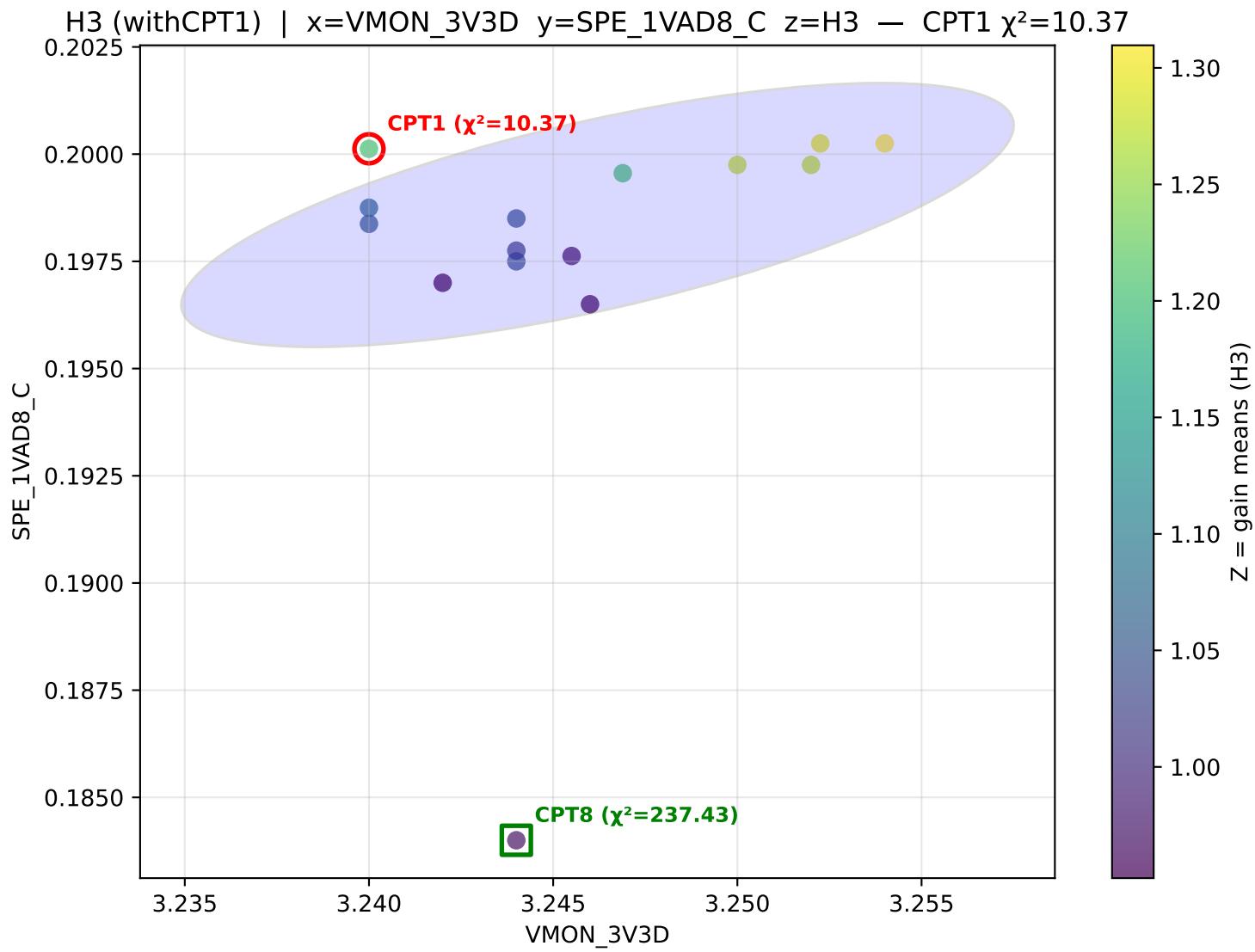


## H3 (withCPT1)

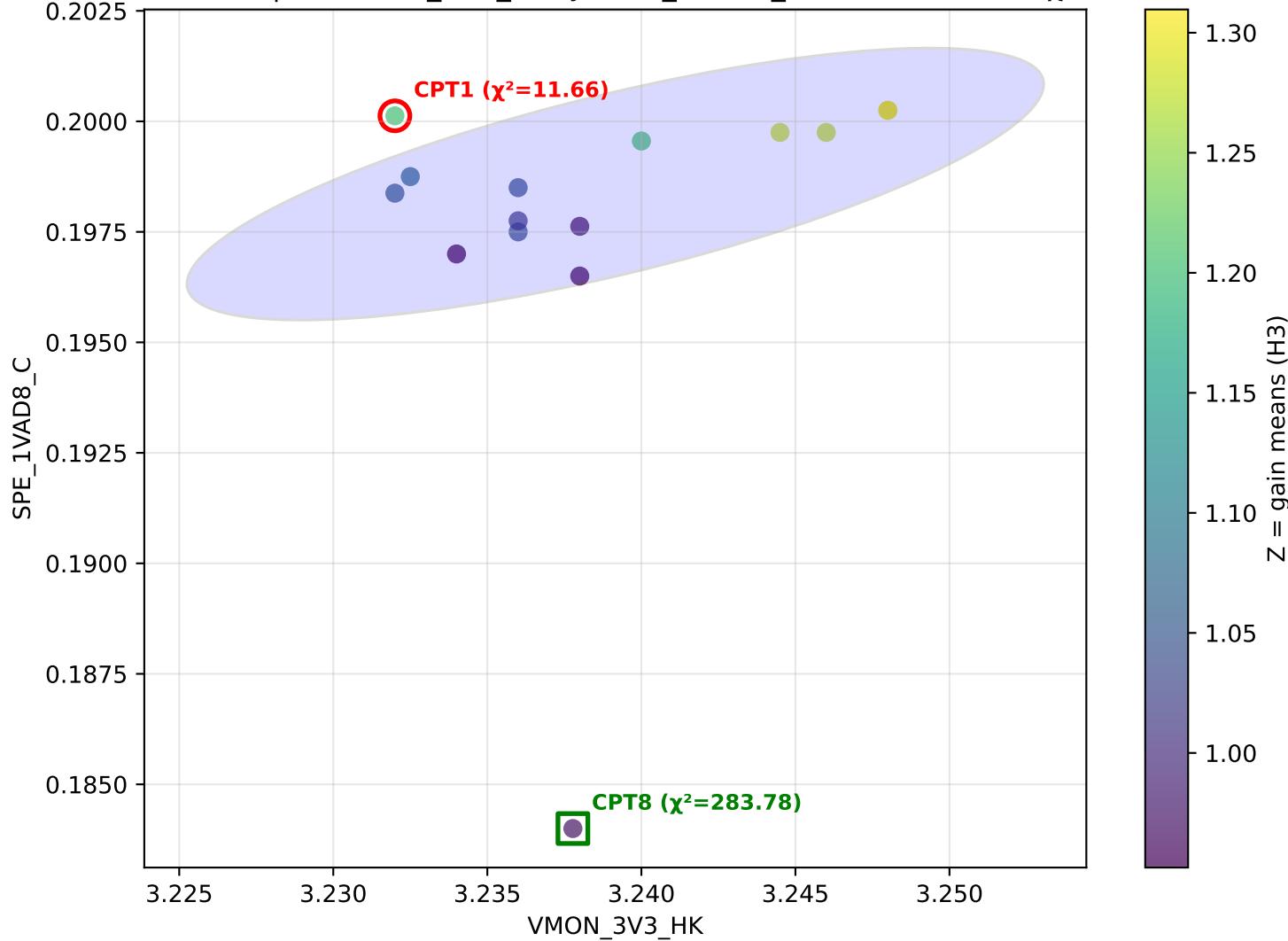
Pairs CPT1-significant ( $\chi^2 > 6$ ) in ALL settings

H3 (withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_MOT\_A}$   $z=\text{H3}$  — CPT1  $\chi^2=16.21$





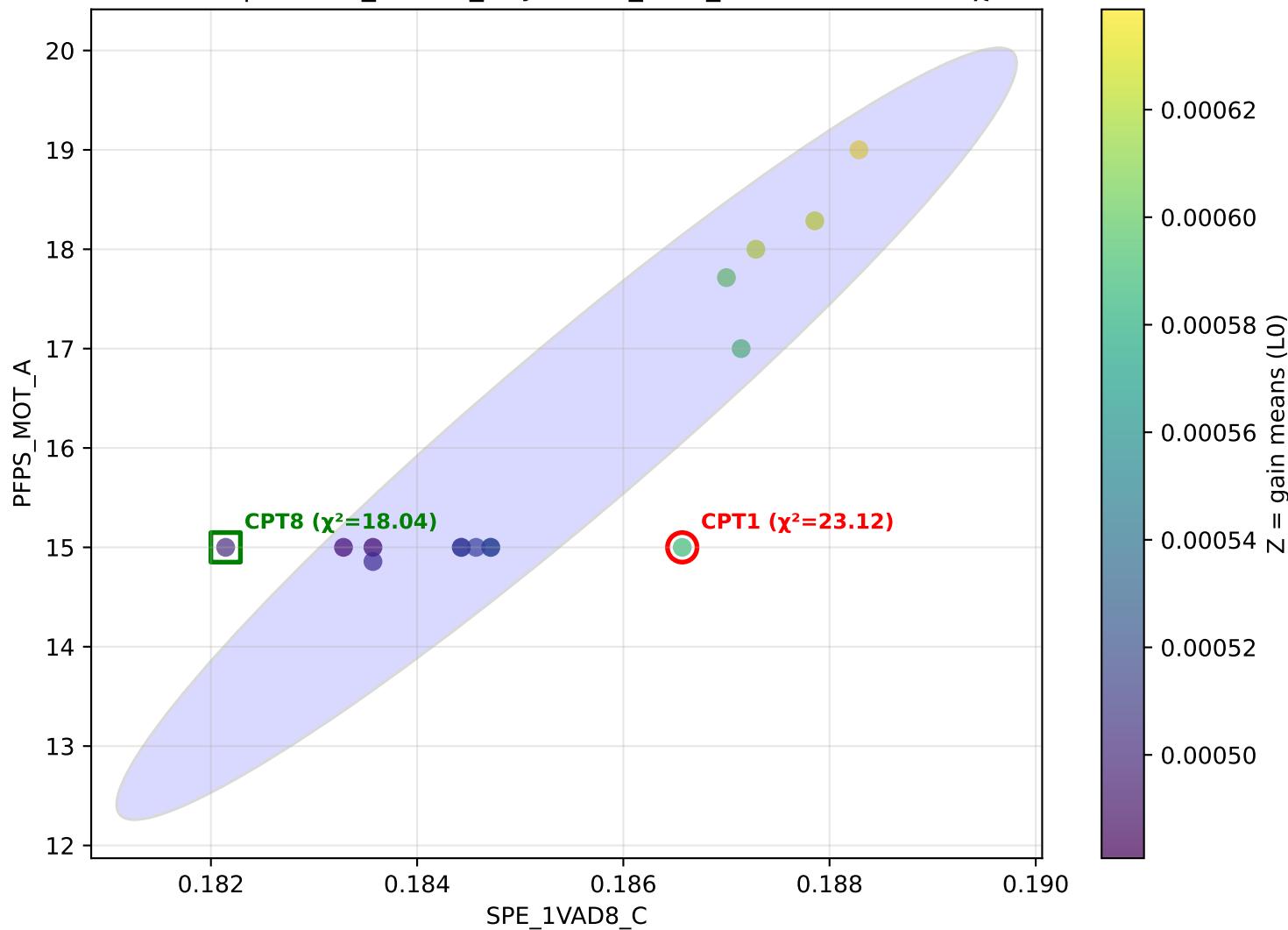
H3 (withCPT1) | x=VMON\_3V3\_HK y=SPE\_1VAD8\_C z=H3 — CPT1  $\chi^2=11.66$



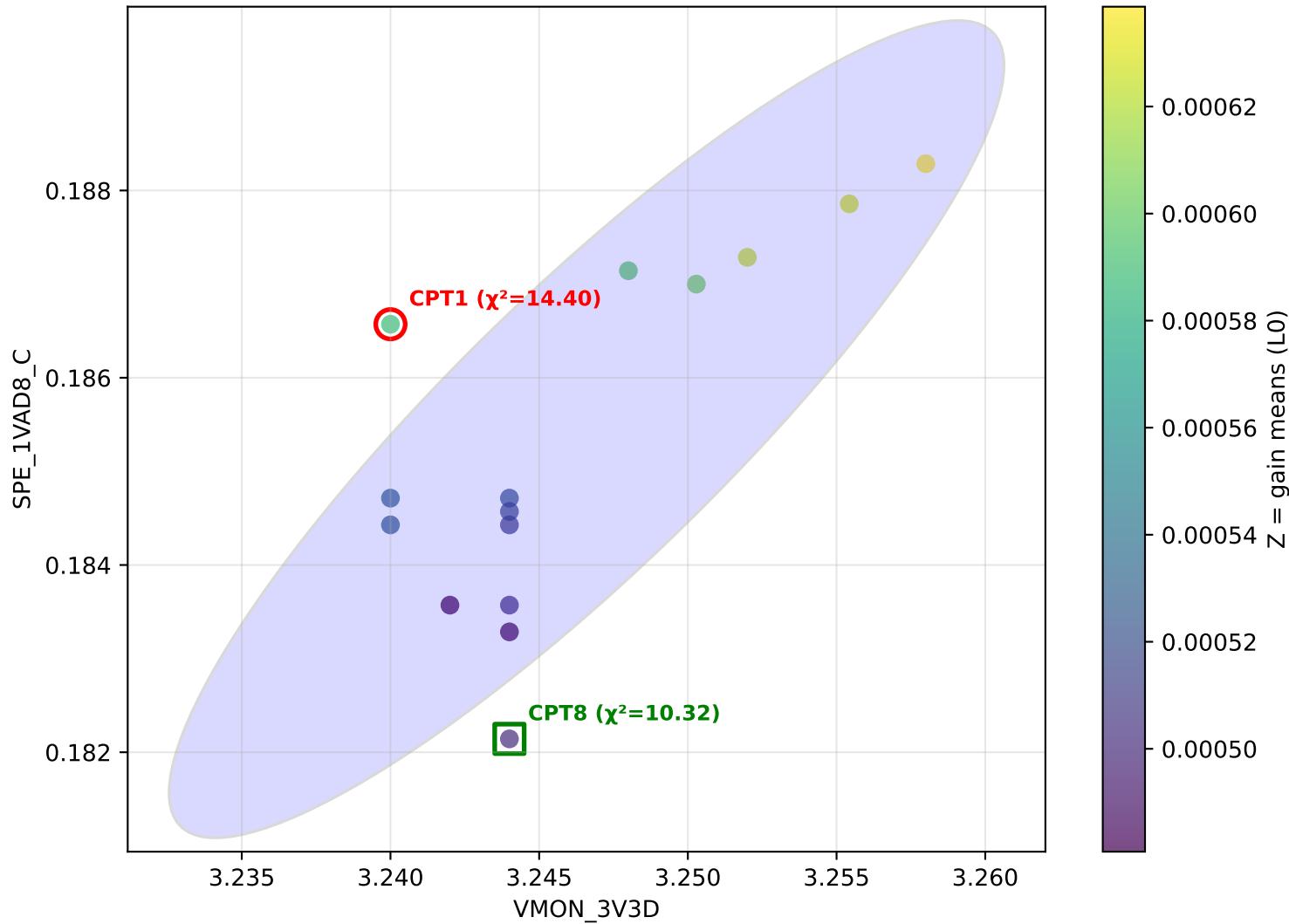
## L0 (withCPT1)

Pairs CPT1-significant ( $\chi^2 > 6$ ) in ALL settings

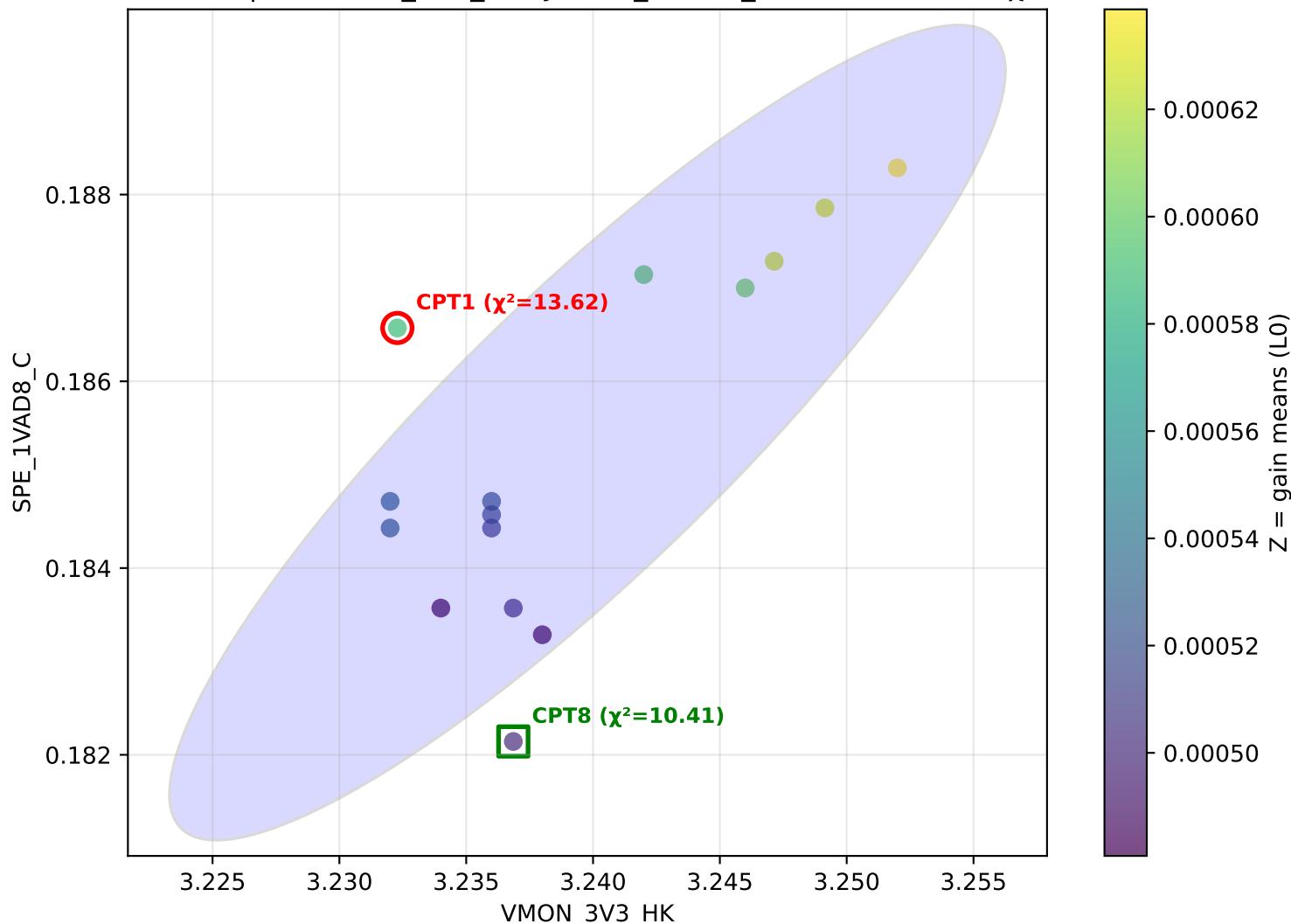
L0 (withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_MOT\_A z=L0 — CPT1  $\chi^2=23.12$



L0 (withCPT1) | x=VMON\_3V3D y=SPE\_1VAD8\_C z=L0 — CPT1  $\chi^2=14.40$



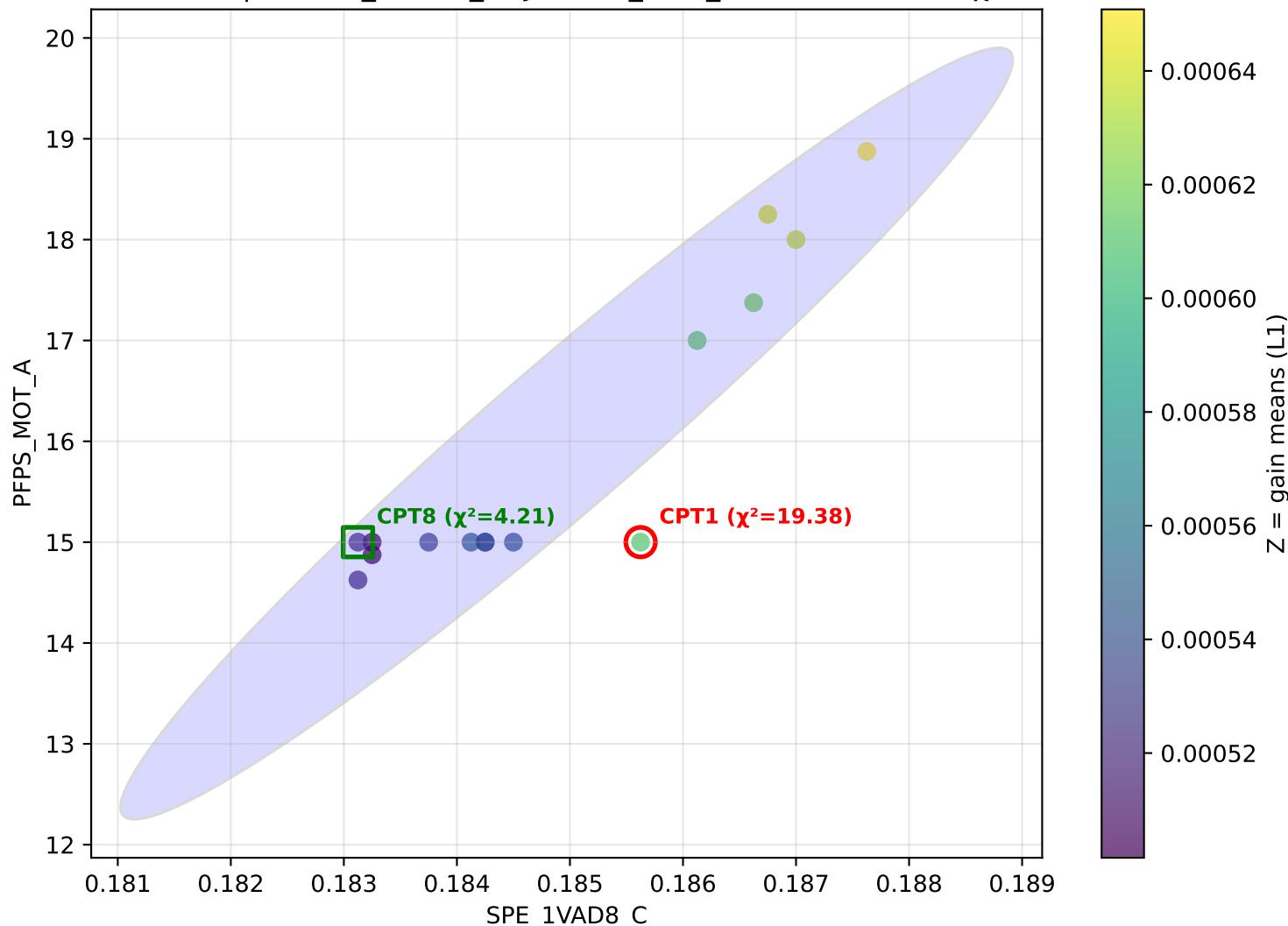
L0 (withCPT1) | x=VMON\_3V3\_HK y=SPE\_1VAD8\_C z=L0 — CPT1  $\chi^2=13.62$



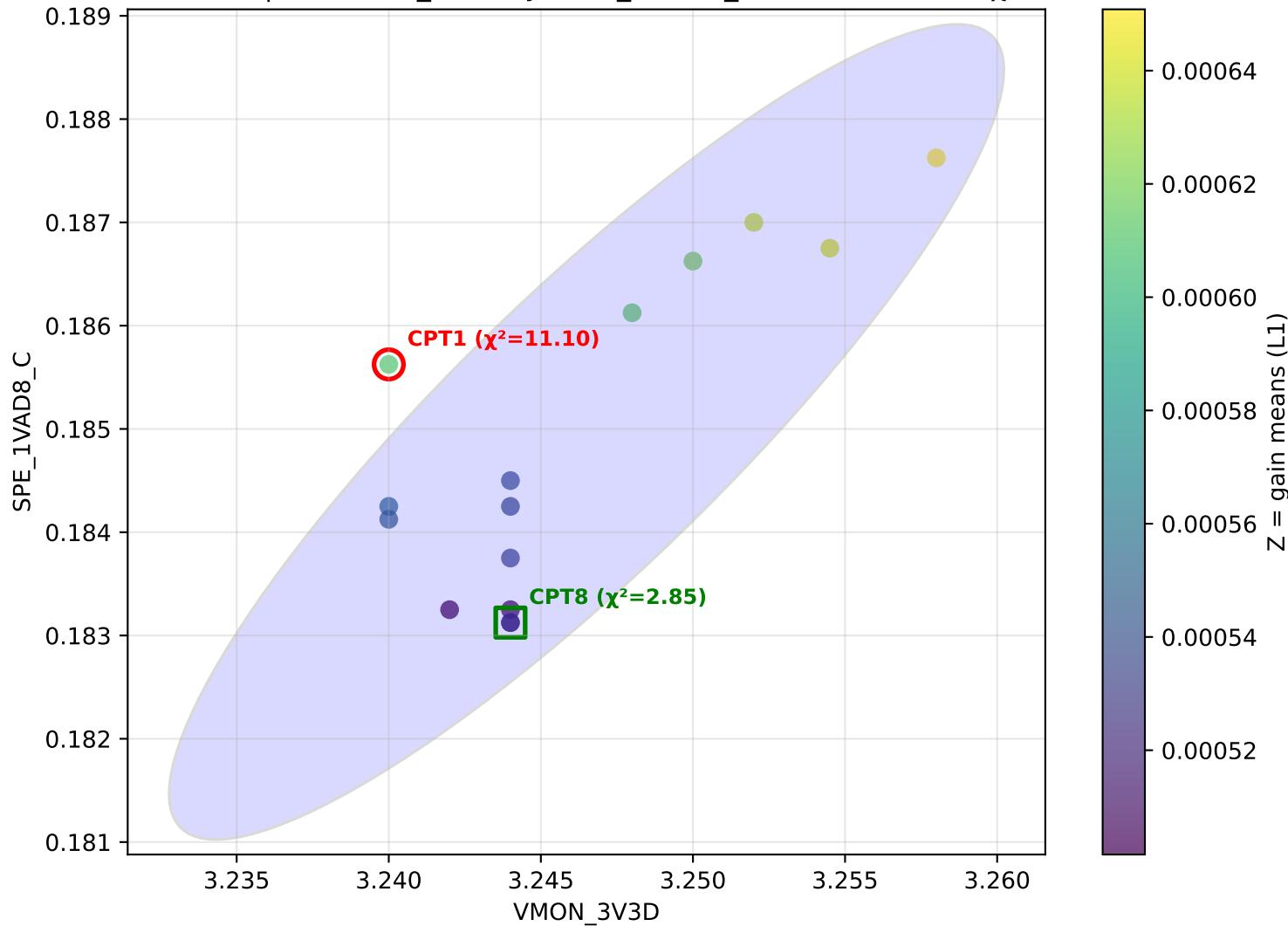
## L1 (withCPT1)

Pairs CPT1-significant ( $\chi^2 > 6$ ) in ALL settings

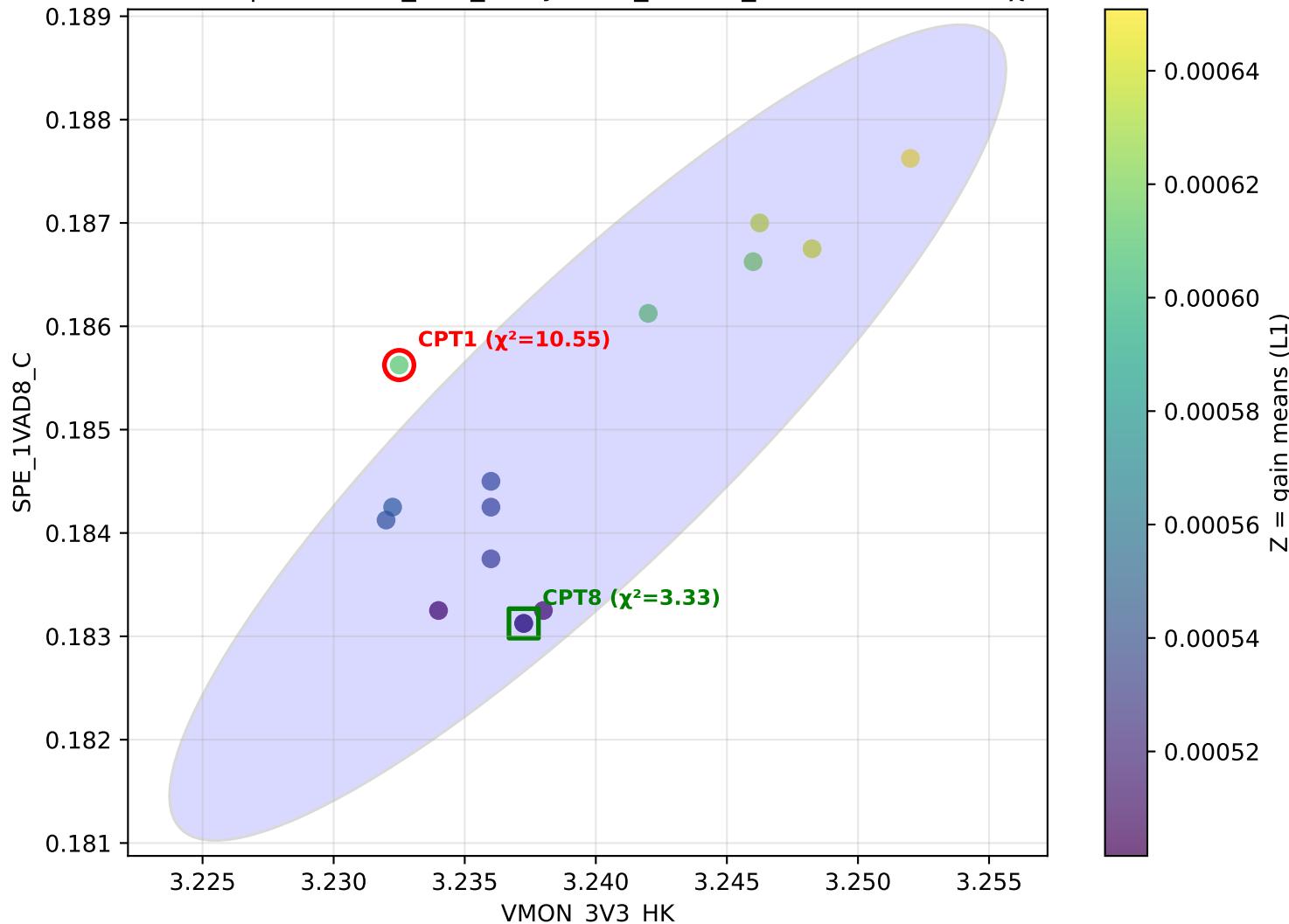
L1 (withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_MOT\_A}$   $z=L1$  — CPT1  $\chi^2=19.38$



L1 (withCPT1) | x=VMON\_3V3D y=SPE\_1VAD8\_C z=L1 — CPT1  $\chi^2=11.10$



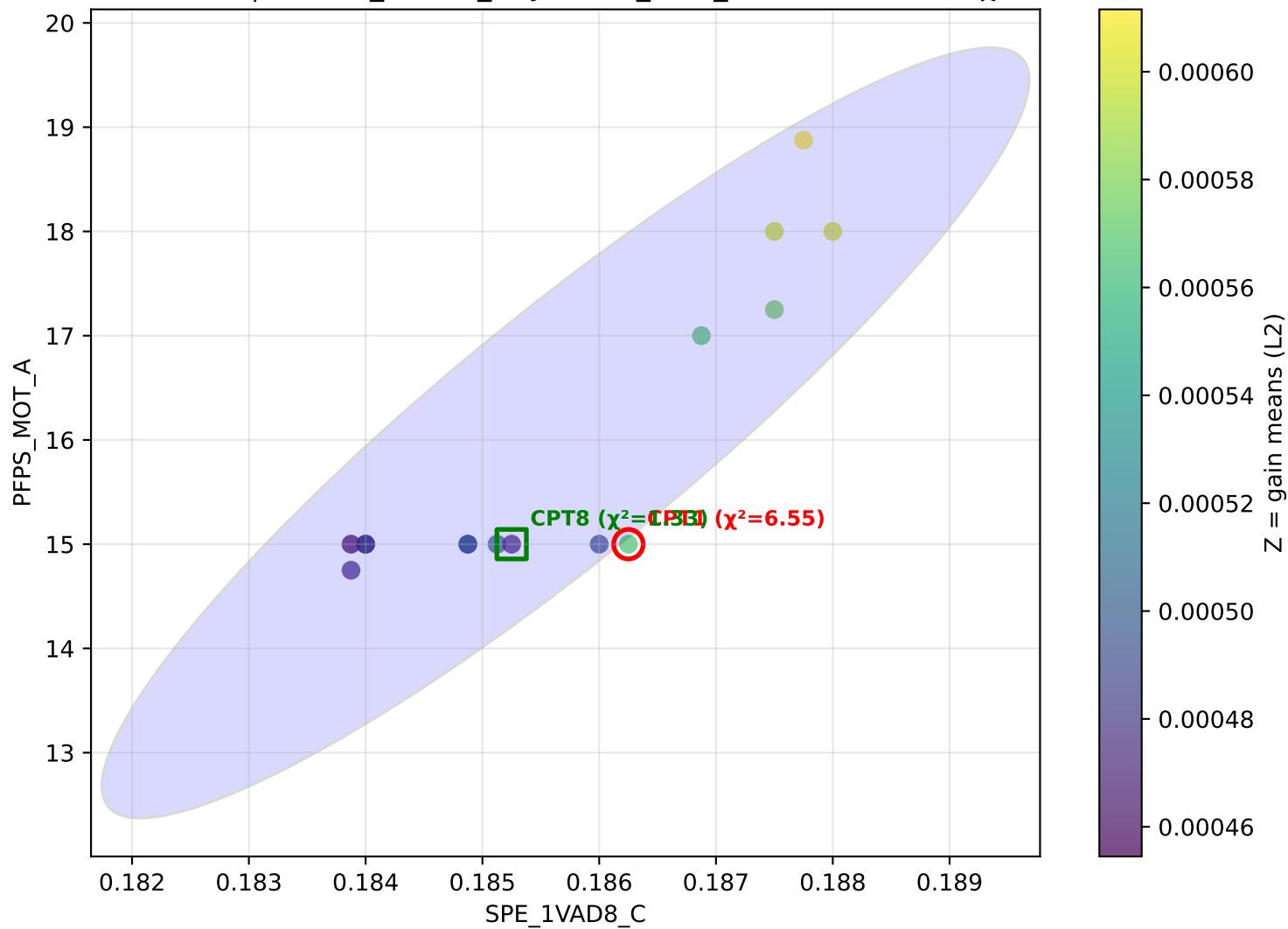
L1 (withCPT1) | x=VMON\_3V3\_HK y=SPE\_1VAD8\_C z=L1 — CPT1  $\chi^2=10.55$



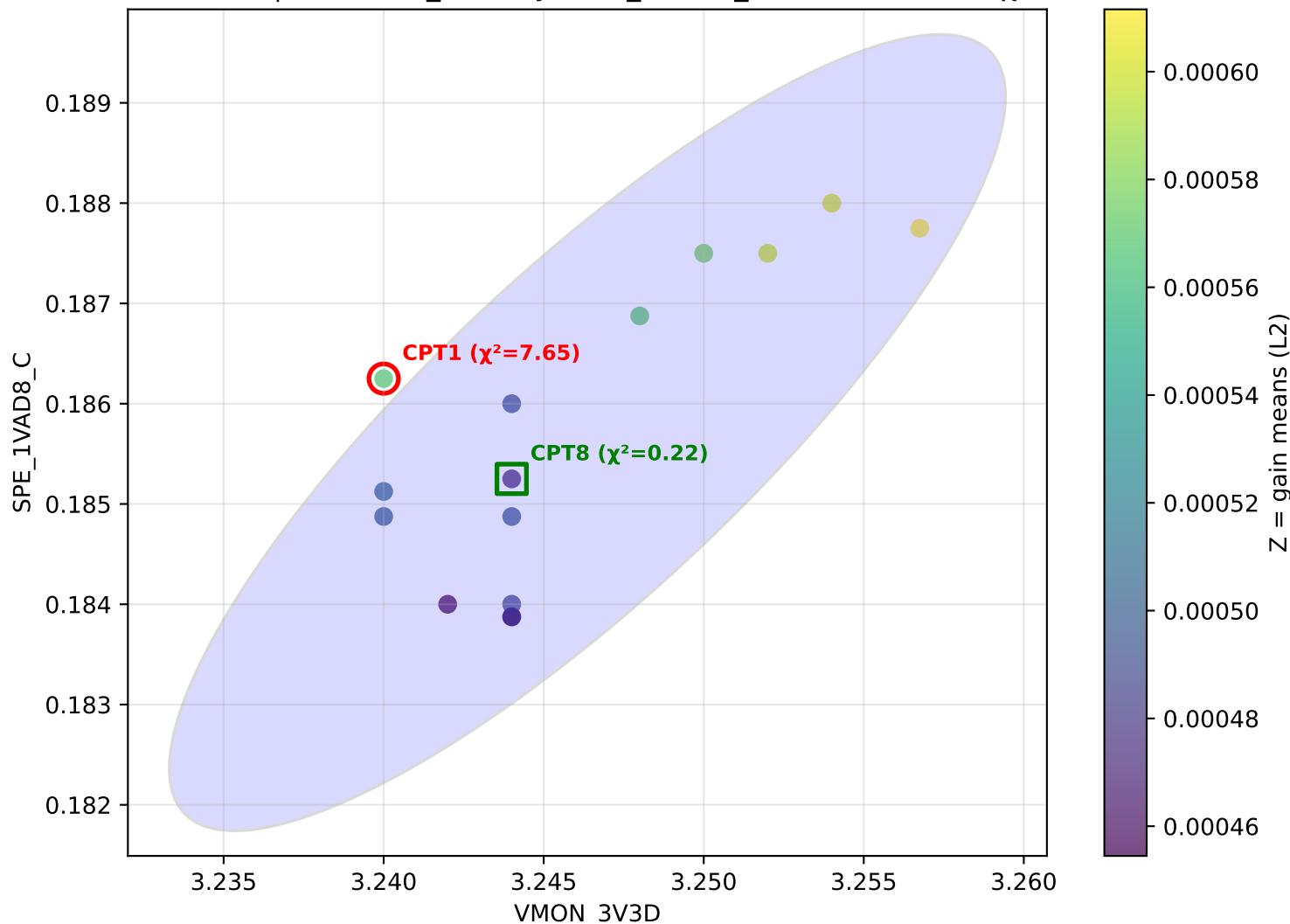
## L2 (withCPT1)

Pairs CPT1-significant ( $\chi^2 > 6$ ) in ALL settings

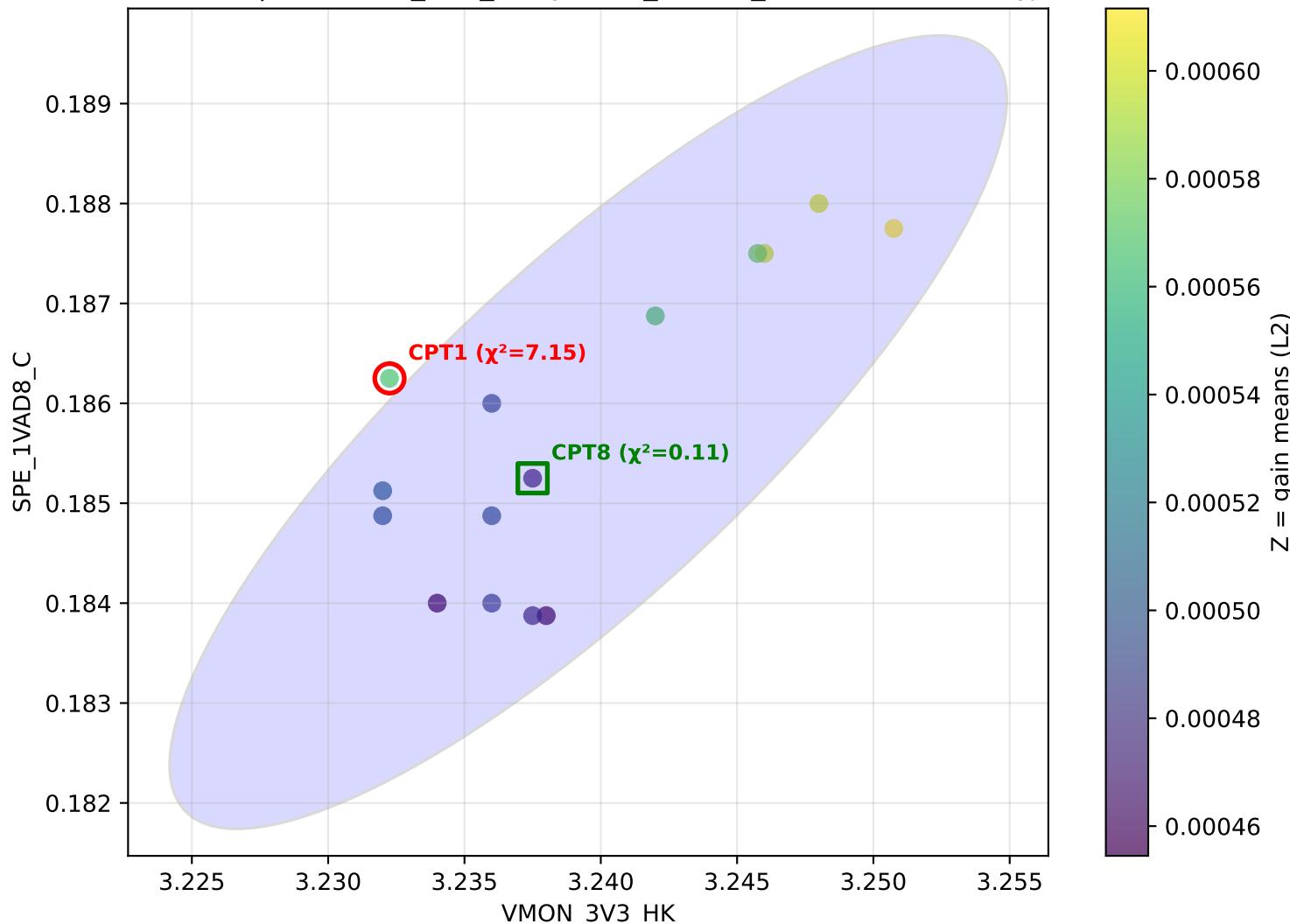
L2 (withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_MOT\_A z=L2 — CPT1  $\chi^2=6.55$



L2 (withCPT1) | x=VMON\_3V3D y=SPE\_1VAD8\_C z=L2 — CPT1  $\chi^2=7.65$



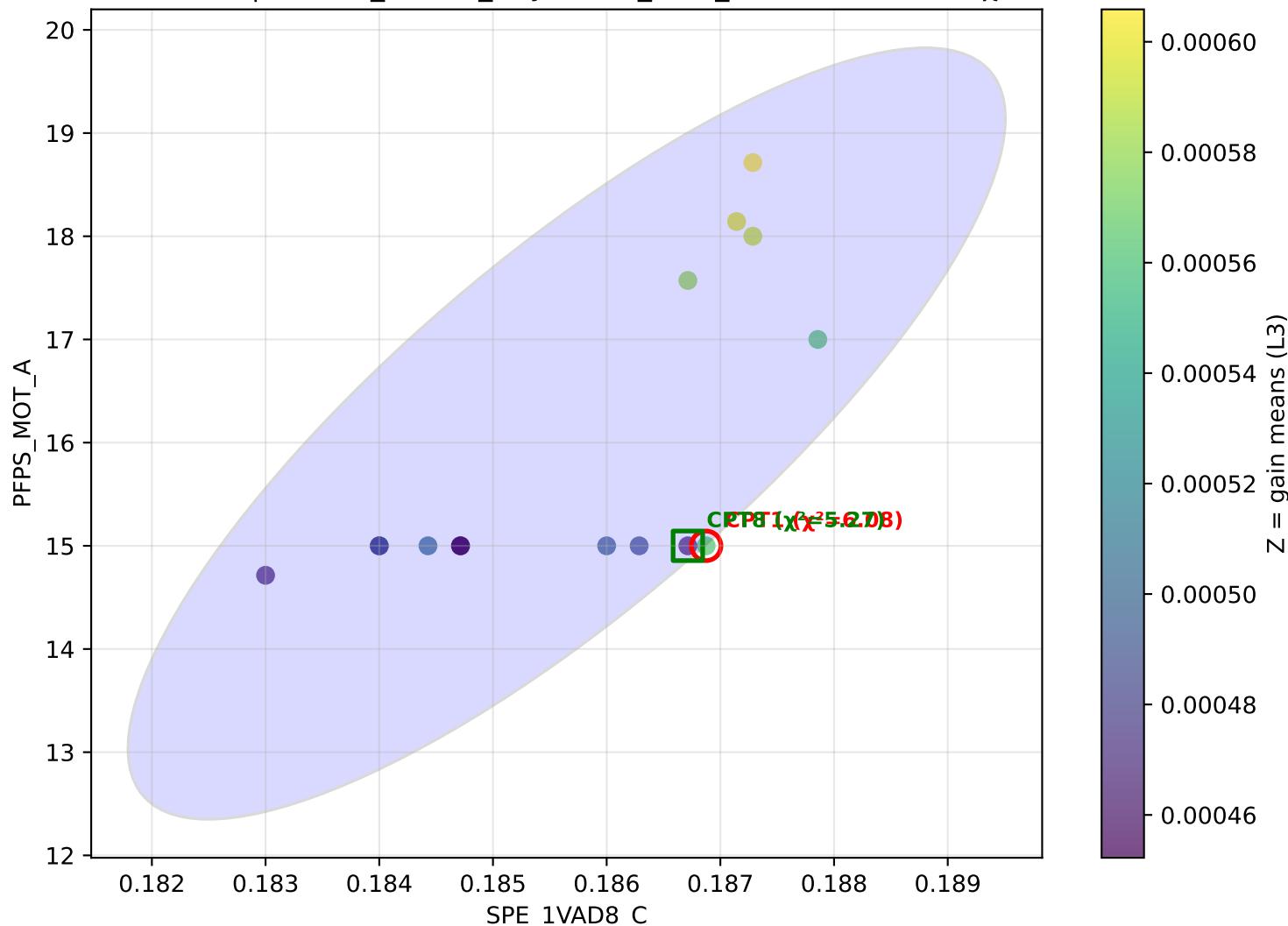
L2 (withCPT1) | x=VMON\_3V3\_HK y=SPE\_1VAD8\_C z=L2 — CPT1  $\chi^2=7.15$



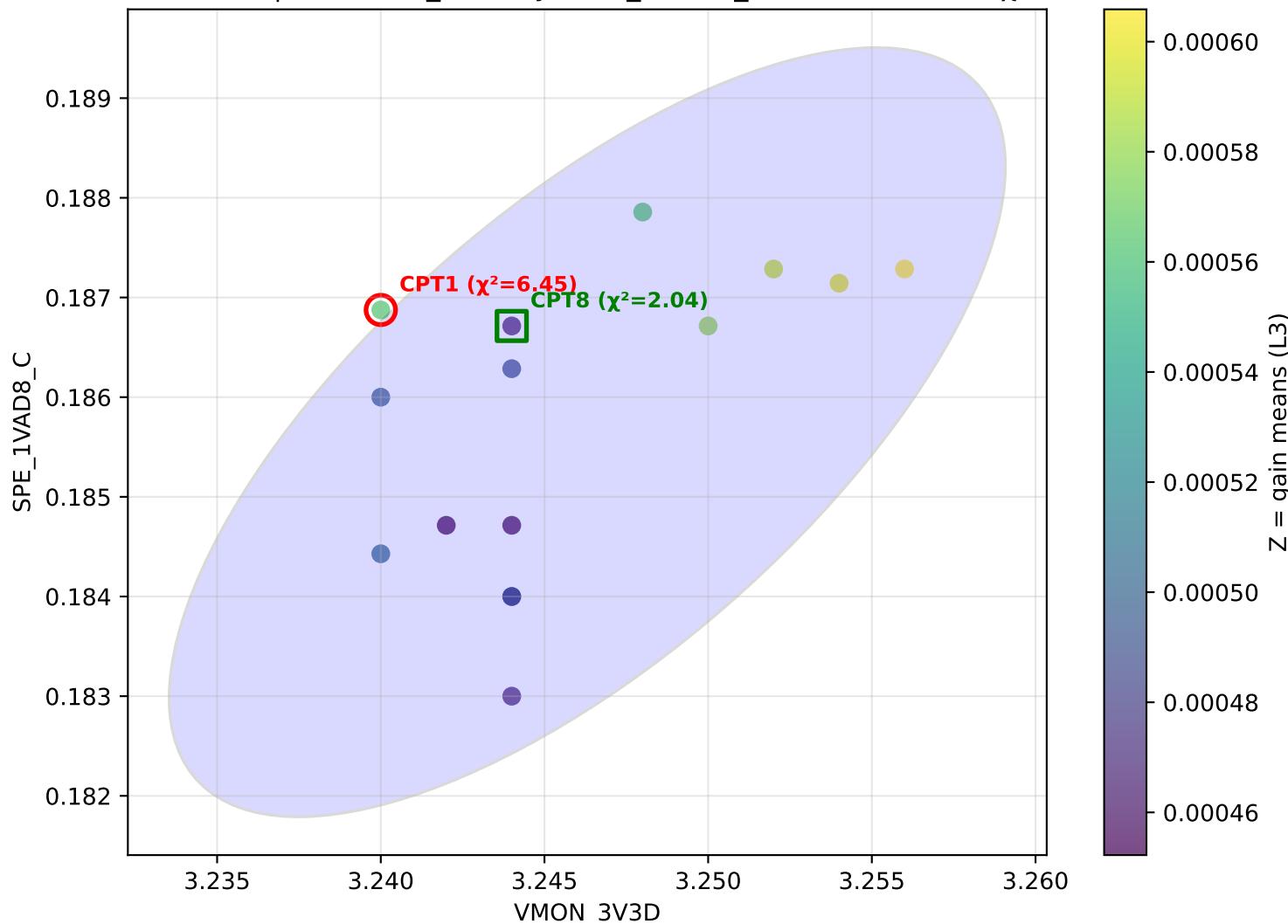
## L3 (withCPT1)

Pairs CPT1-significant ( $\chi^2 > 6$ ) in ALL settings

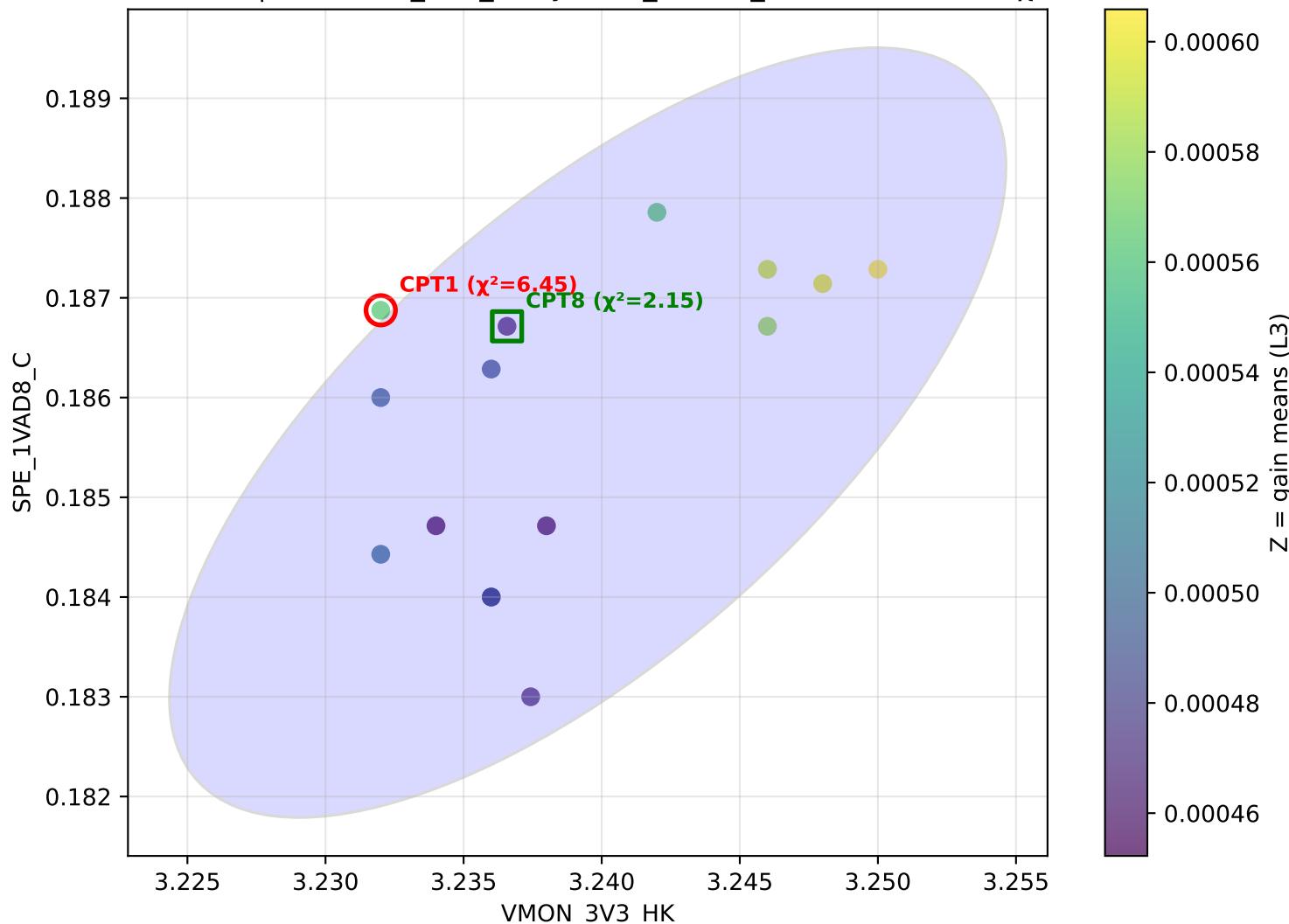
L3 (withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_MOT\_A z=L3 — CPT1  $\chi^2=6.08$



L3 (withCPT1) | x=VMON\_3V3D y=SPE\_1VAD8\_C z=L3 — CPT1  $\chi^2=6.45$



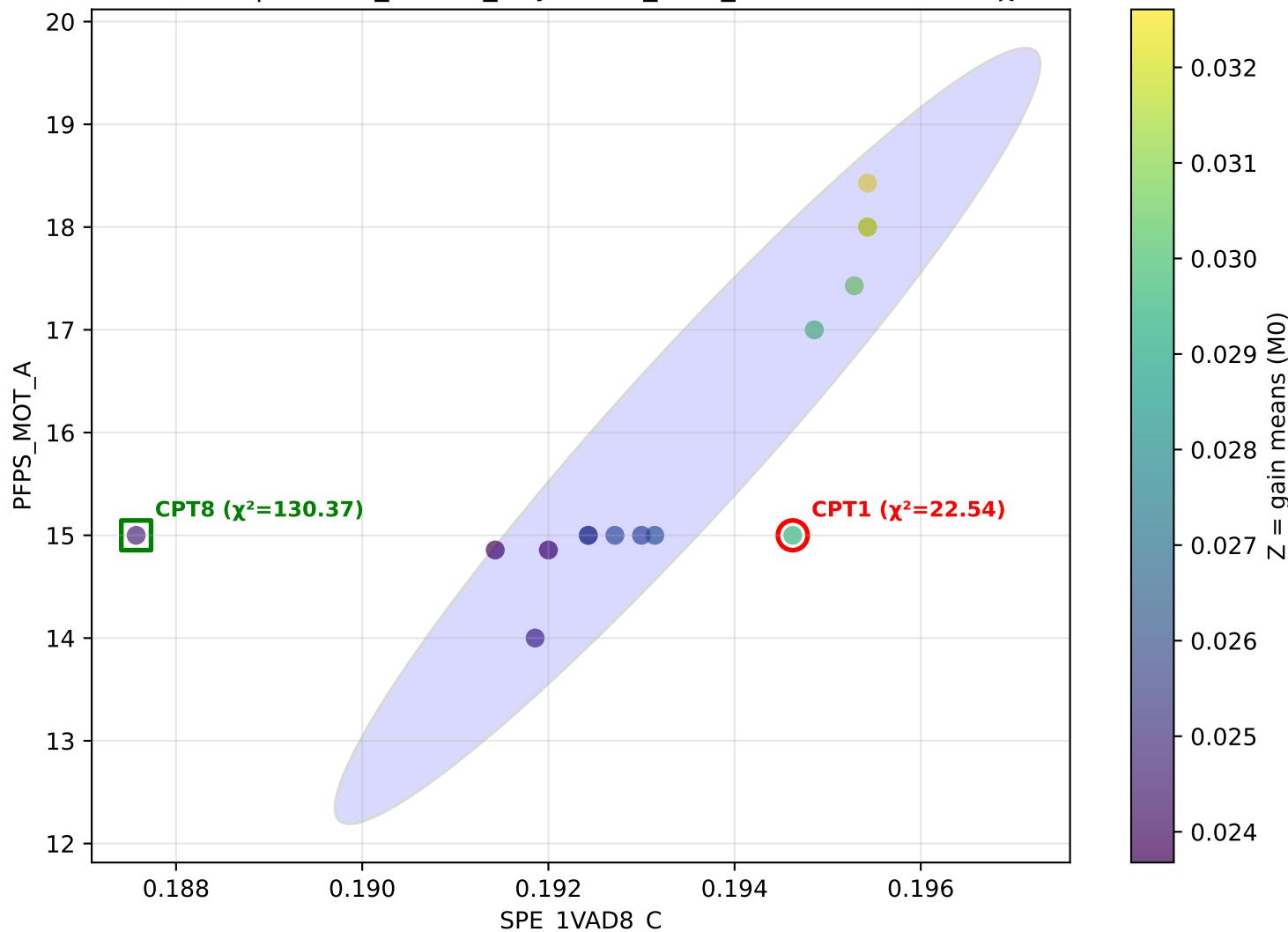
L3 (withCPT1) | x=VMON\_3V3\_HK y=SPE\_1VAD8\_C z=L3 — CPT1  $\chi^2=6.45$



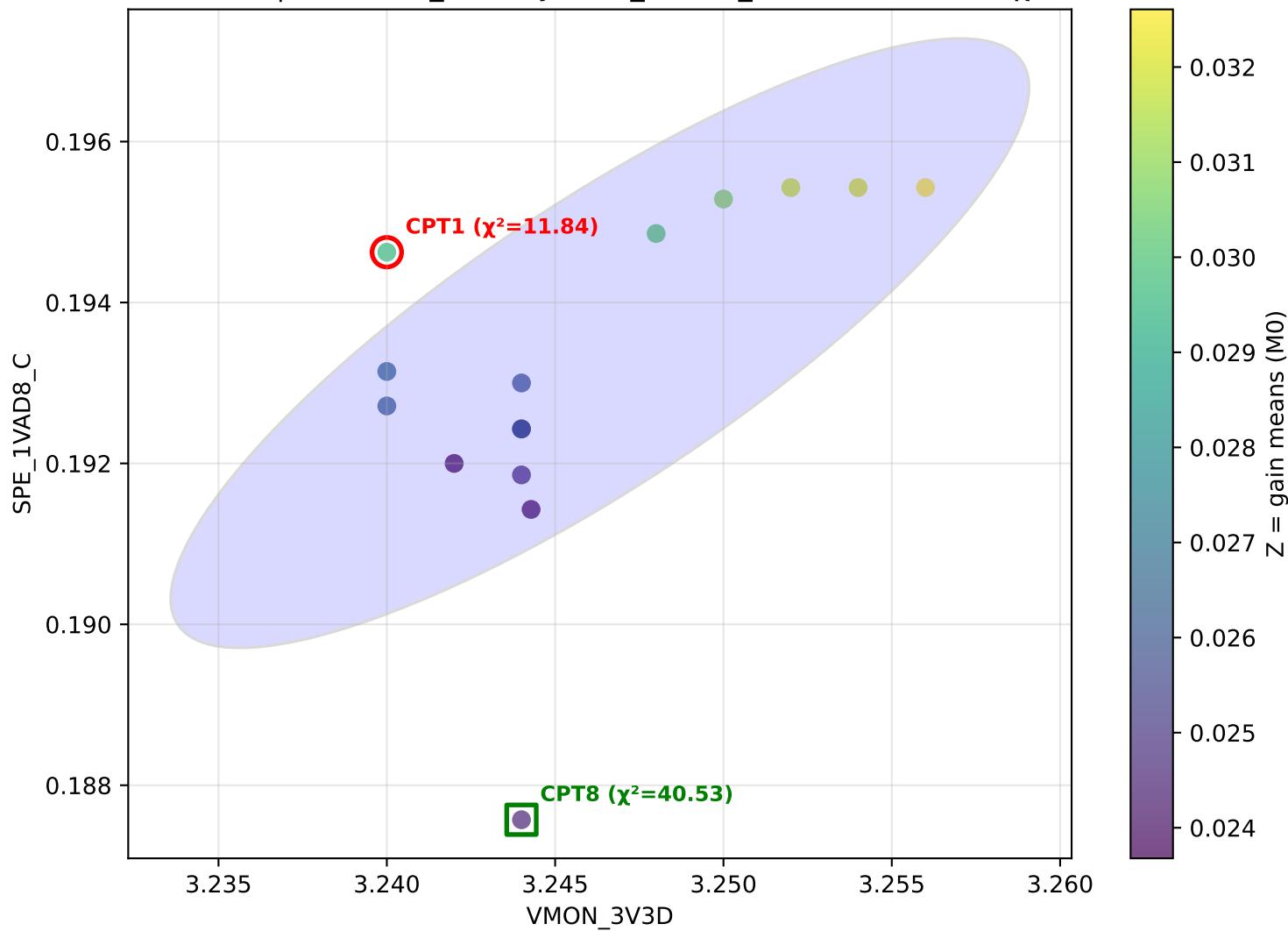
## M0 (withCPT1)

Pairs CPT1-significant ( $\chi^2 > 6$ ) in ALL settings

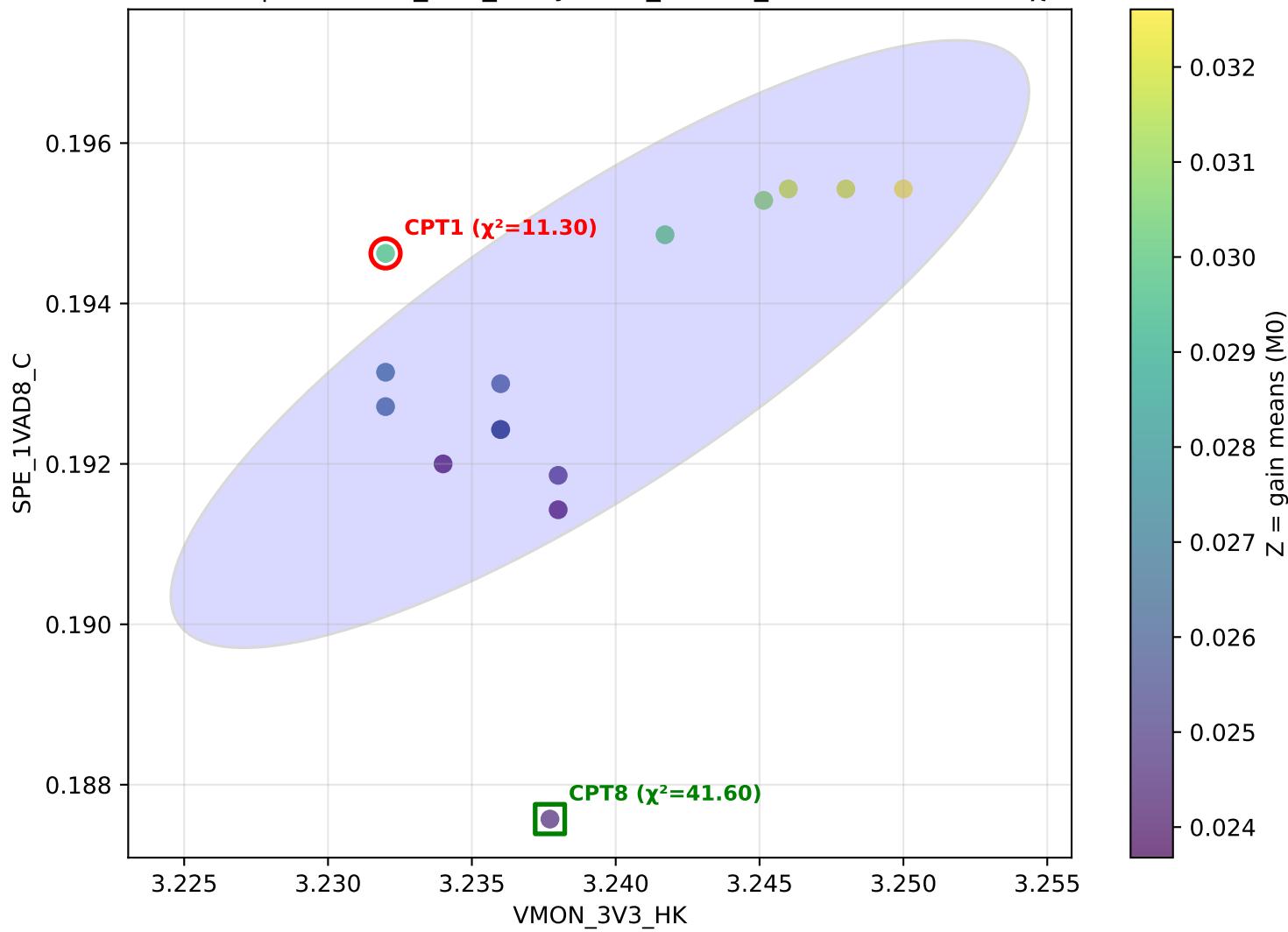
M0 (withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_MOT\_A z=M0 — CPT1  $\chi^2=22.54$



M0 (withCPT1) | x=VMON\_3V3D y=SPE\_1VAD8\_C z=M0 — CPT1  $\chi^2=11.84$



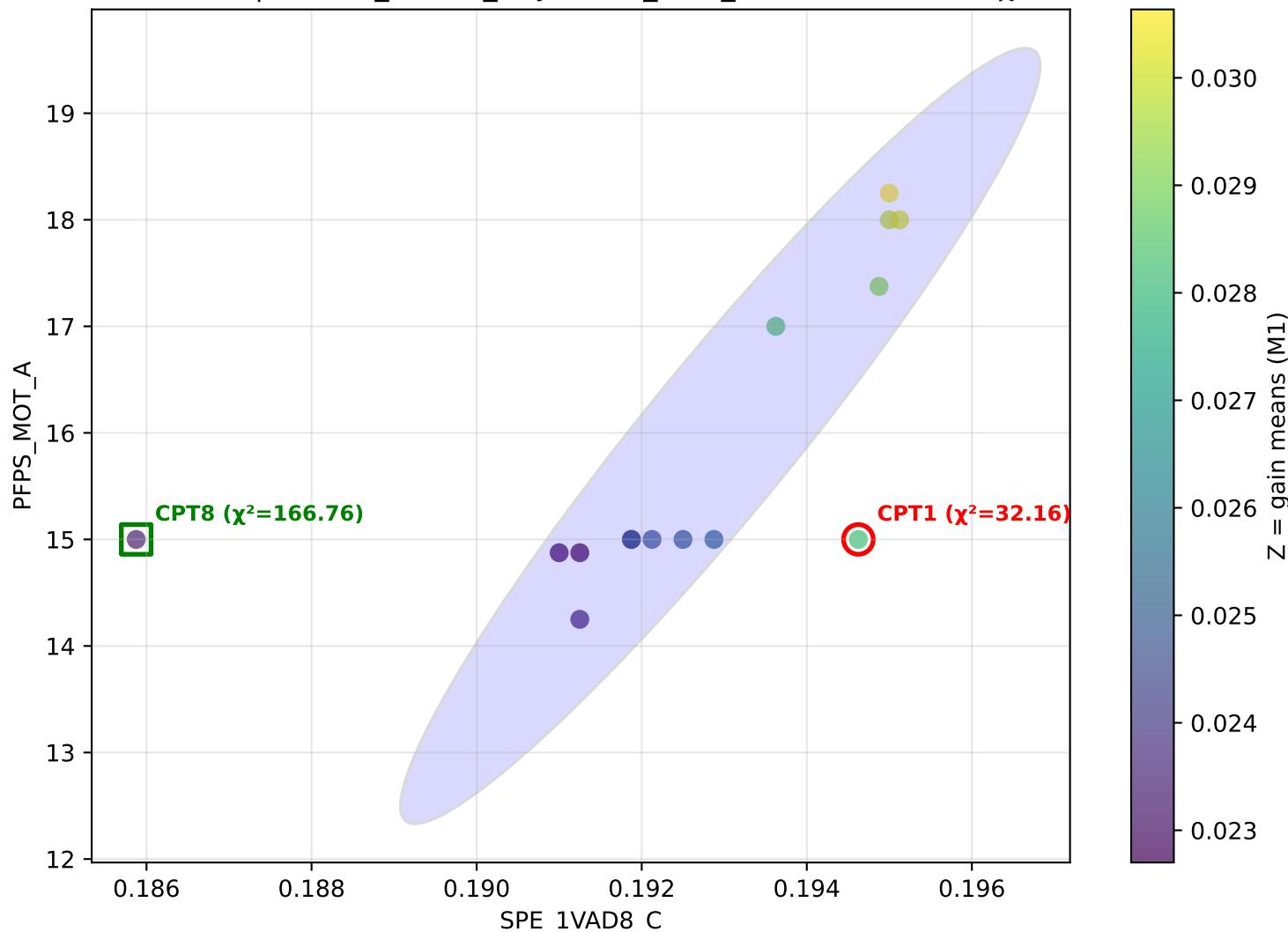
M0 (withCPT1) | x=VMON\_3V3\_HK y=SPE\_1VAD8\_C z=M0 — CPT1  $\chi^2=11.30$



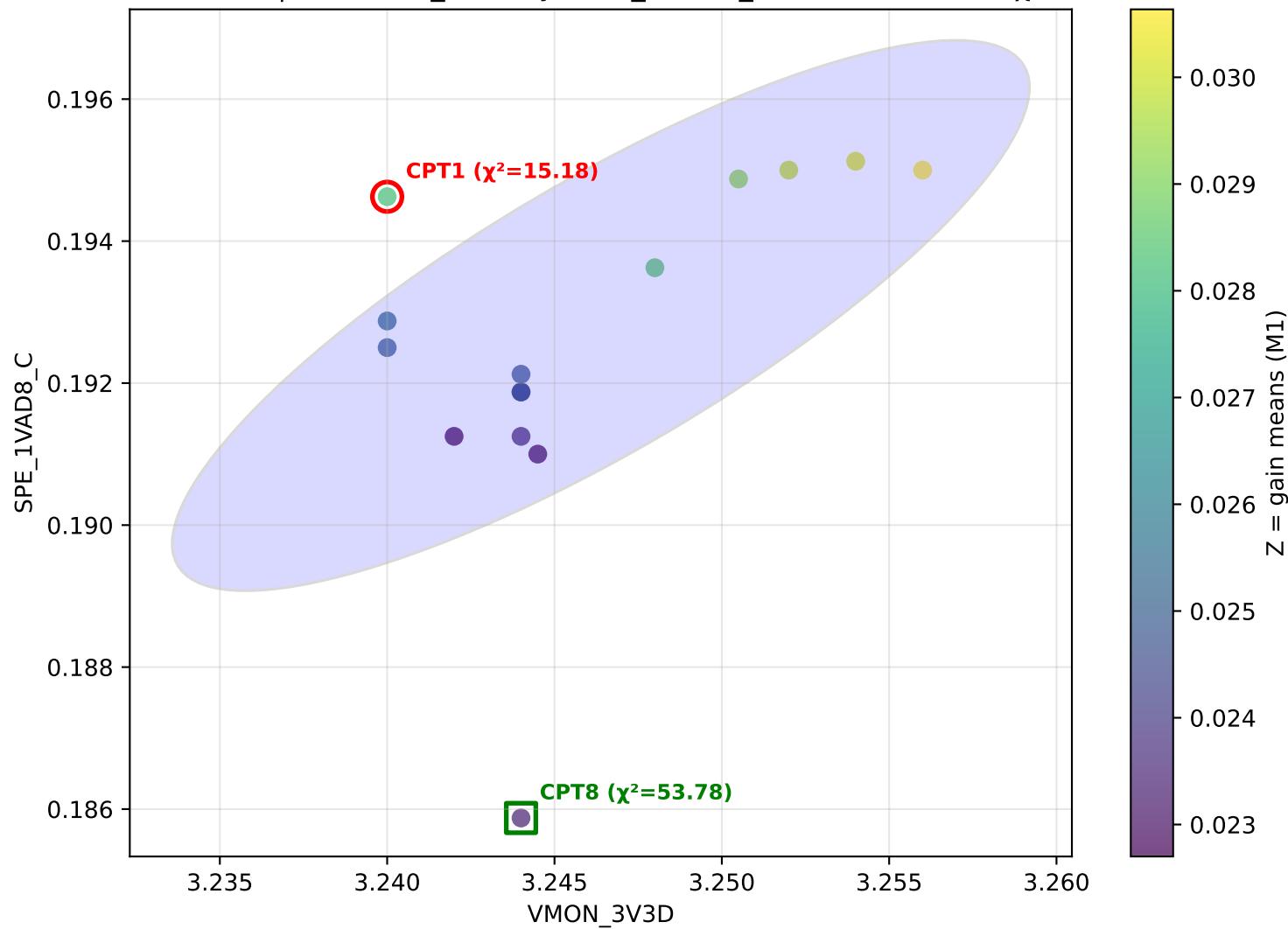
# M1 (withCPT1)

Pairs CPT1-significant ( $\chi^2 > 6$ ) in ALL settings

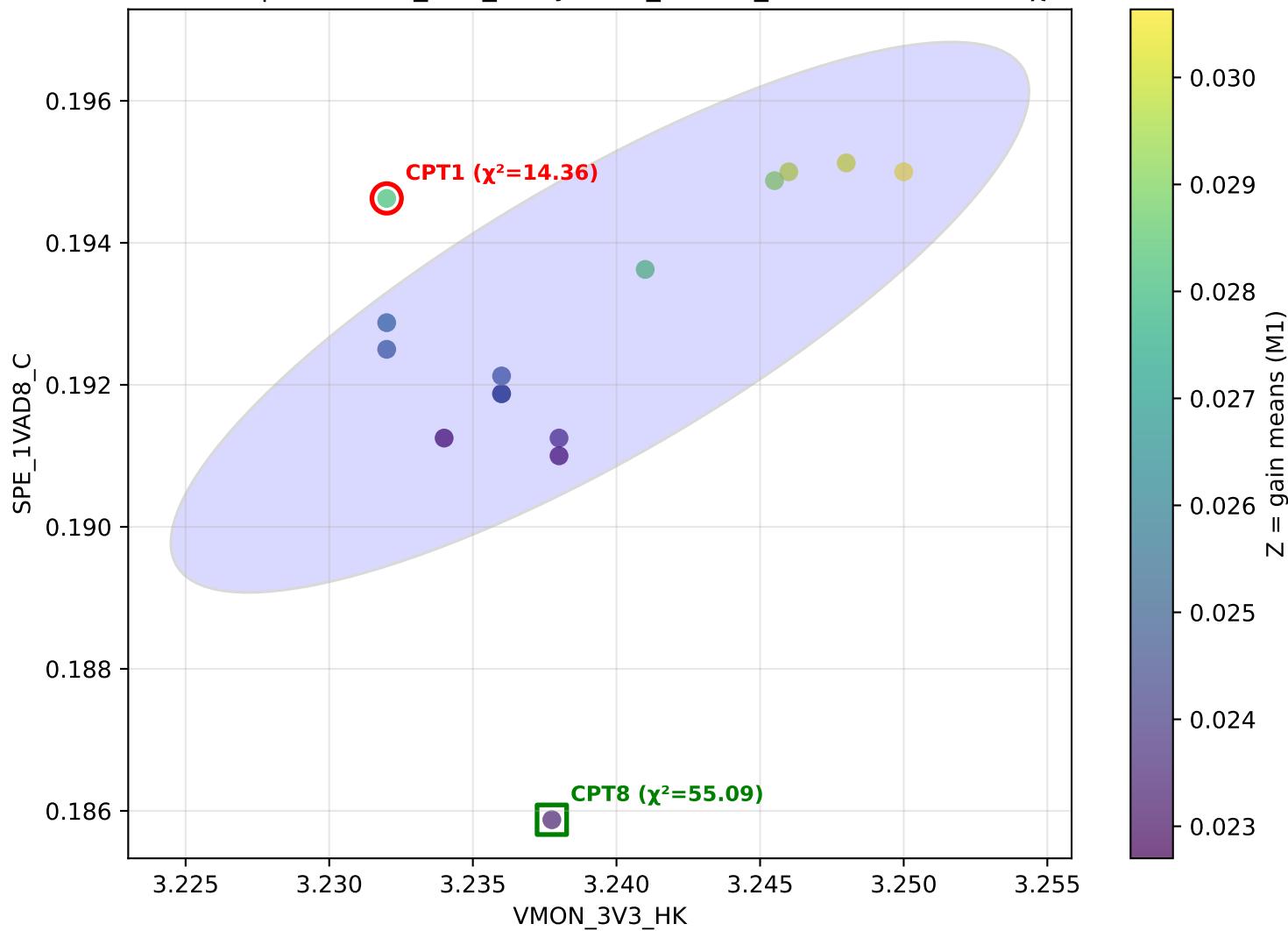
M1 (withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_MOT\_A z=M1 — CPT1  $\chi^2=32.16$



M1 (withCPT1) | x=VMON\_3V3D y=SPE\_1VAD8\_C z=M1 — CPT1  $\chi^2=15.18$



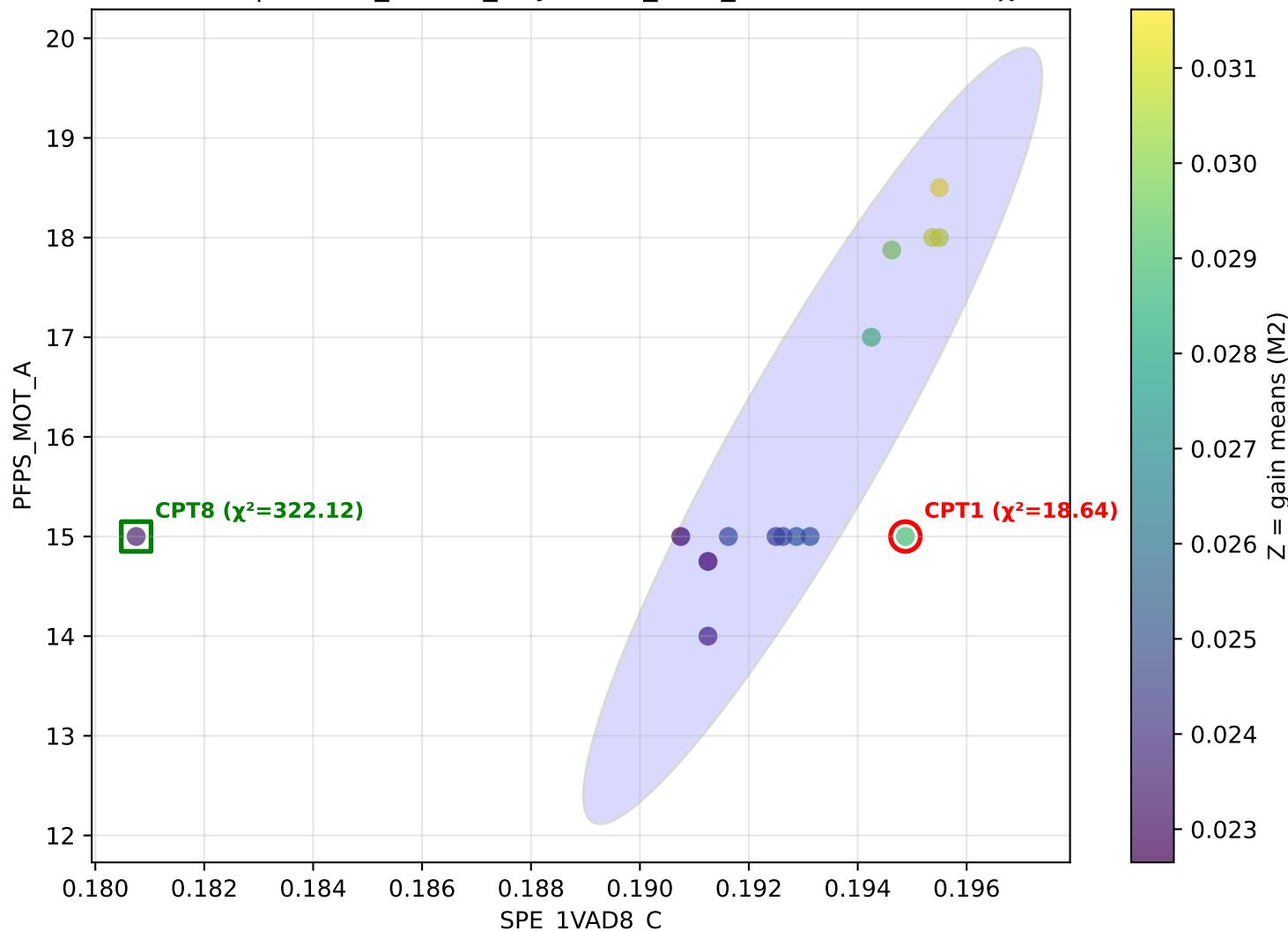
M1 (withCPT1) | x=VMON\_3V3\_HK y=SPE\_1VAD8\_C z=M1 — CPT1  $\chi^2=14.36$



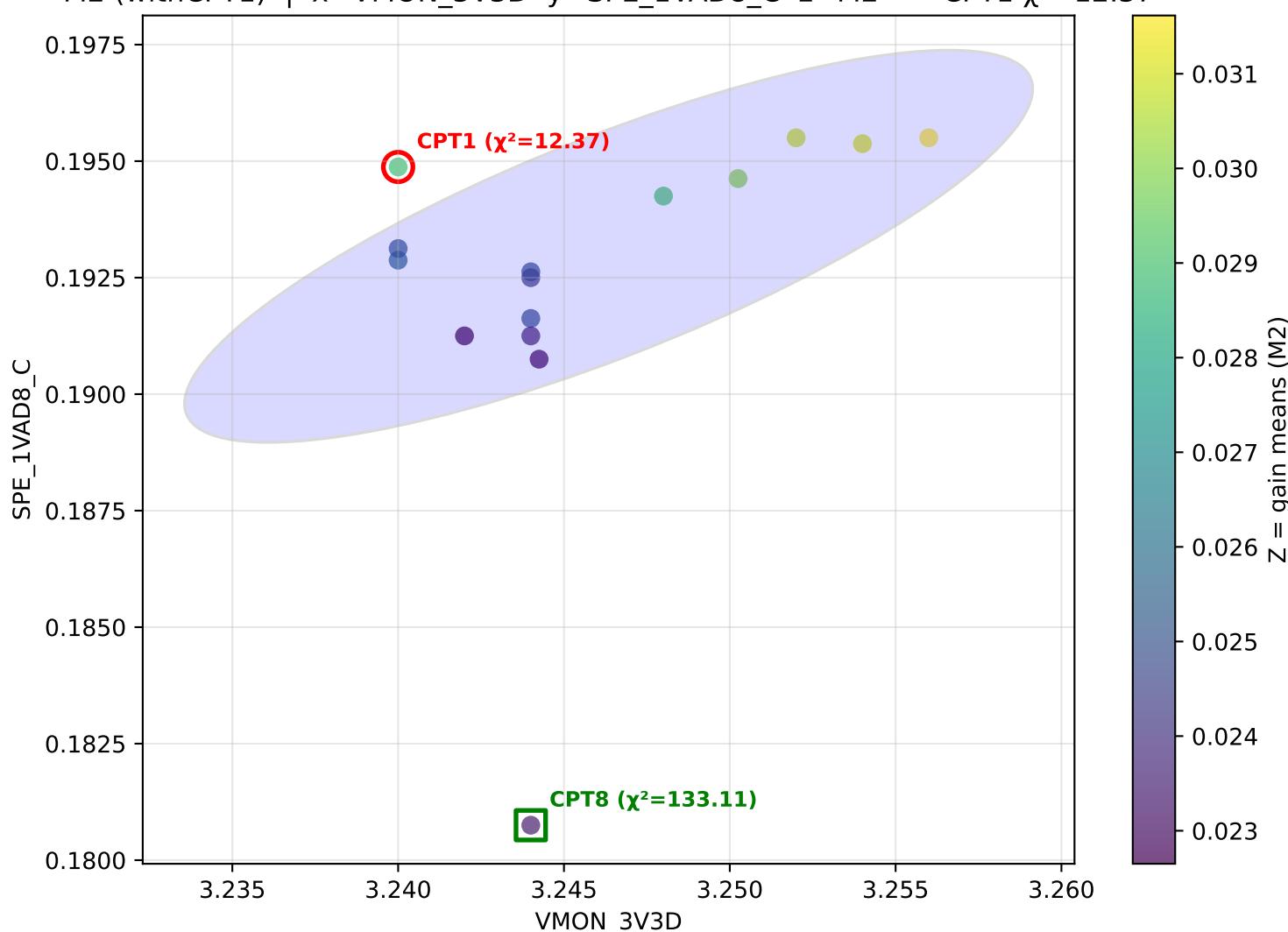
## M2 (withCPT1)

Pairs CPT1-significant ( $\chi^2 > 6$ ) in ALL settings

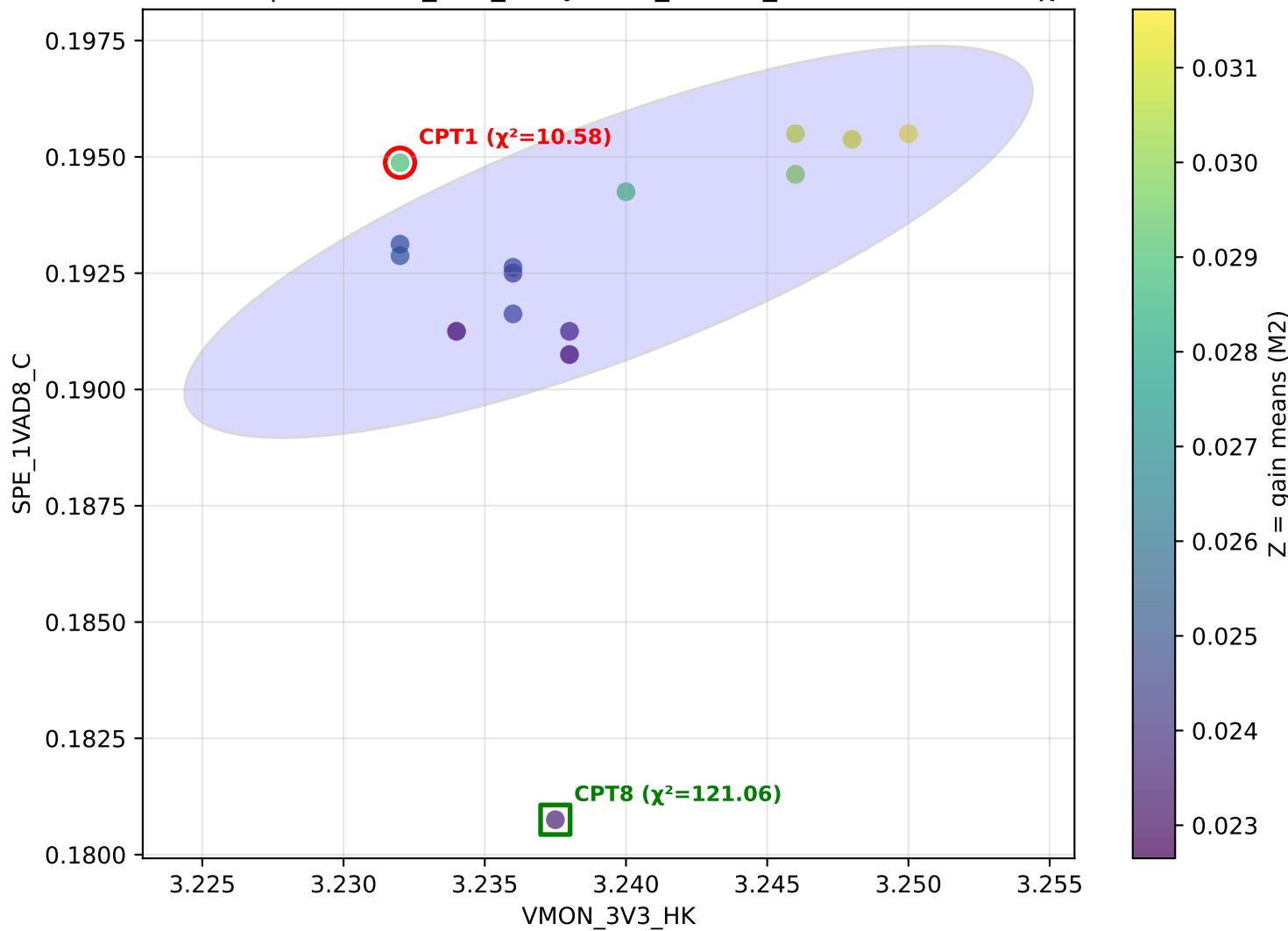
M2 (withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_MOT\_A z=M2 — CPT1  $\chi^2=18.64$



M2 (withCPT1) | x=VMON\_3V3D y=SPE\_1VAD8\_C z=M2 — CPT1  $\chi^2=12.37$



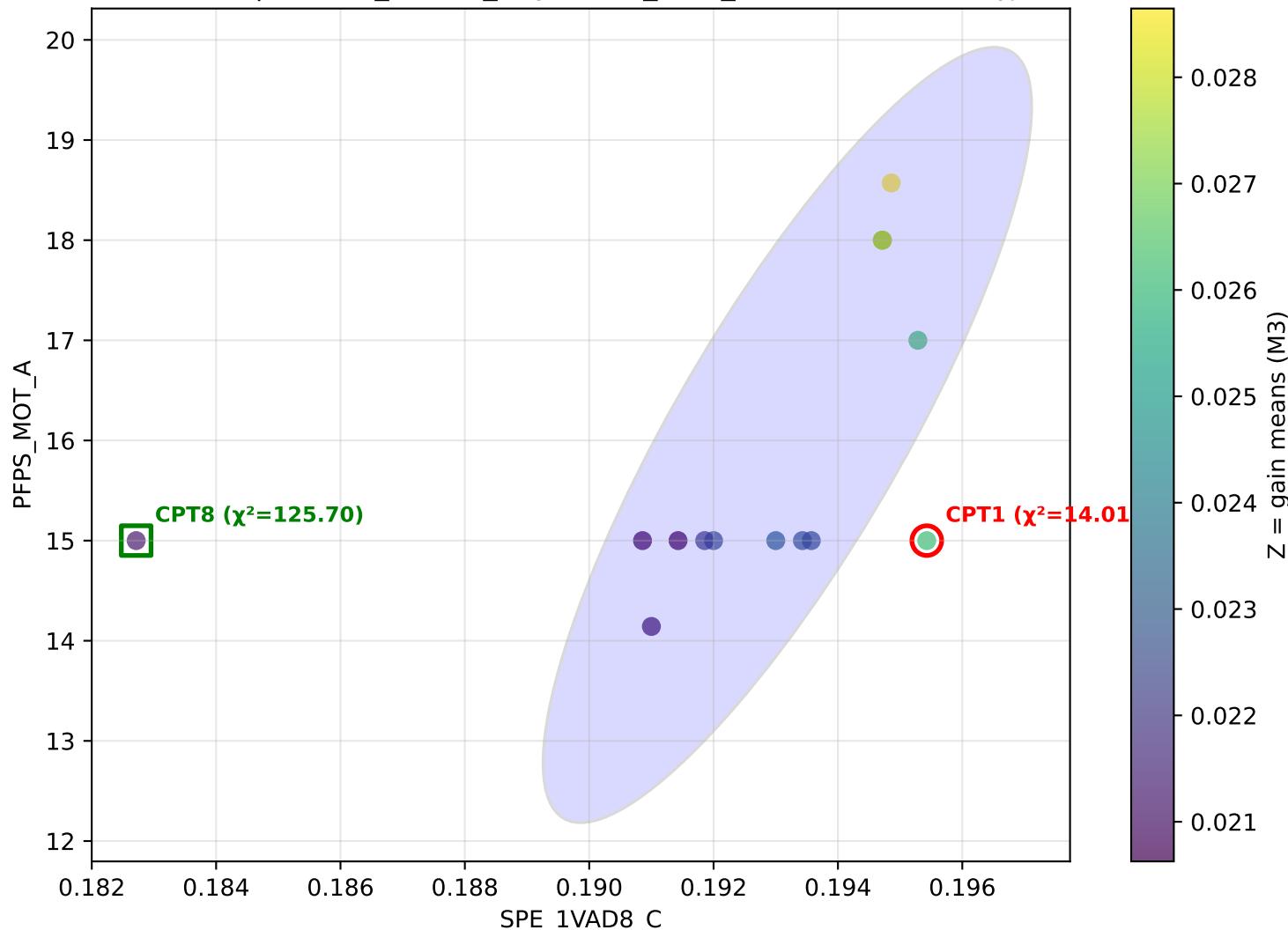
M2 (withCPT1) | x=VMON\_3V3\_HK y=SPE\_1VAD8\_C z=M2 — CPT1  $\chi^2=10.58$



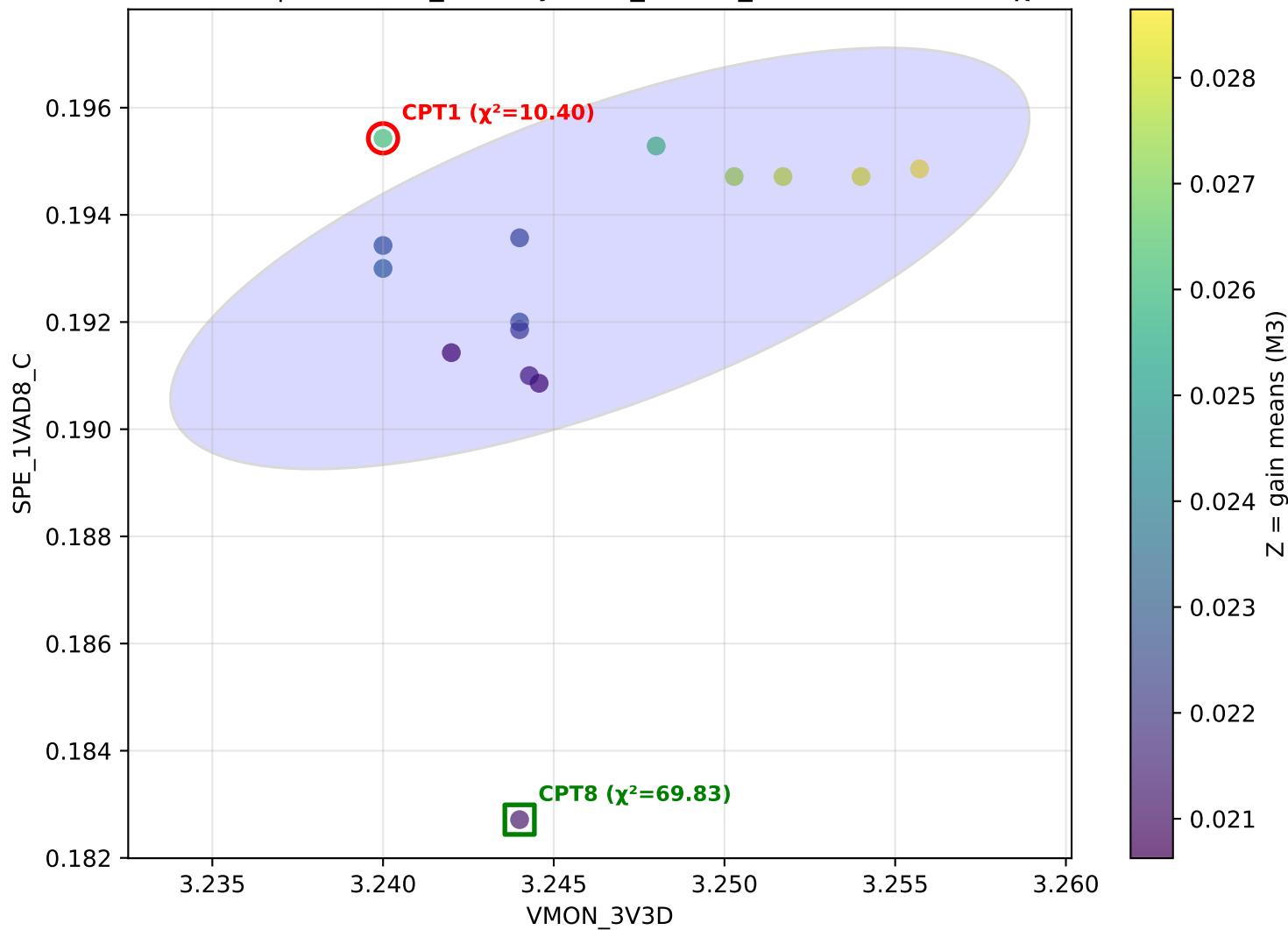
## M3 (withCPT1)

Pairs CPT1-significant ( $\chi^2 > 6$ ) in ALL settings

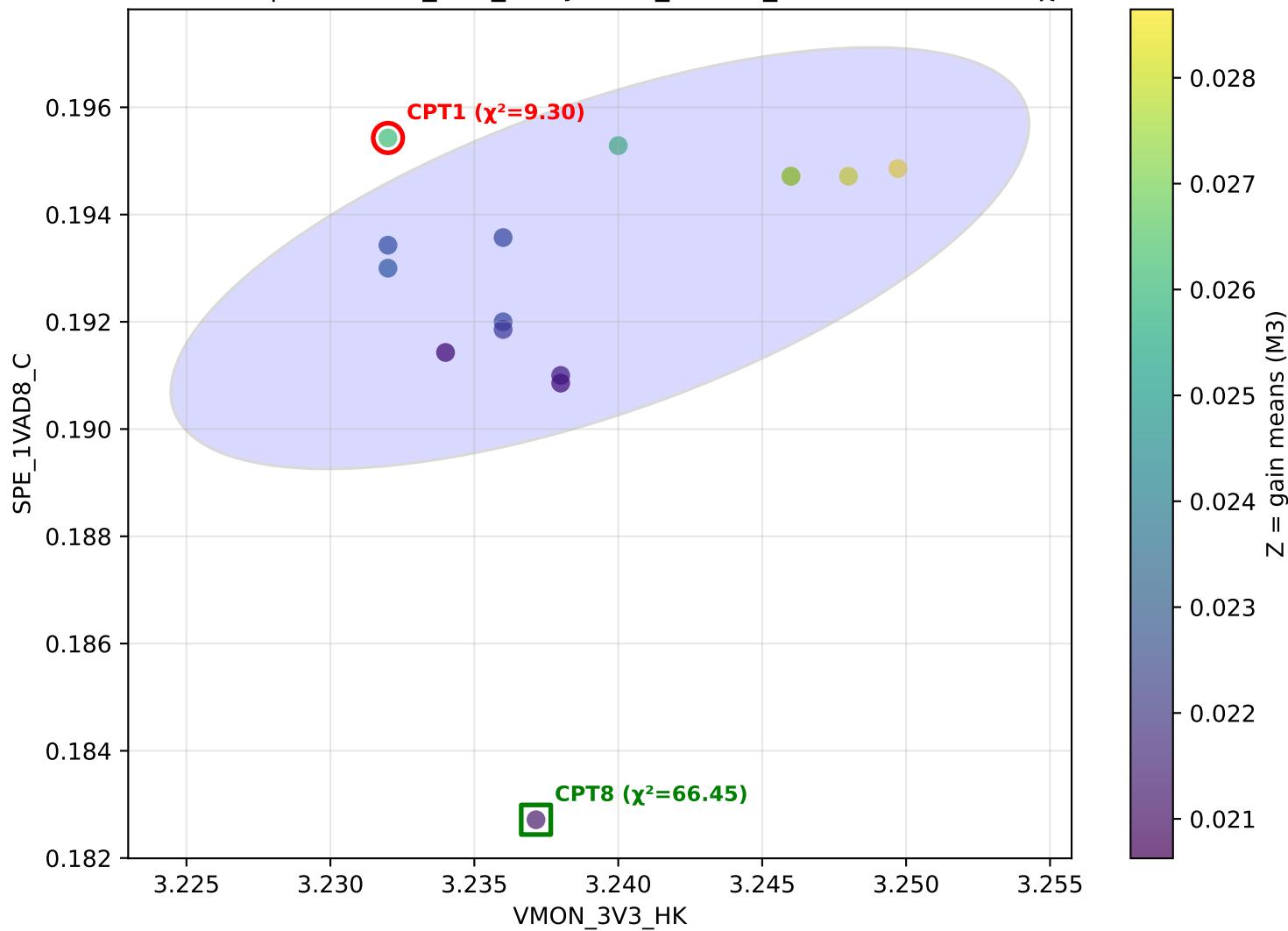
M3 (withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_MOT\_A}$   $z=M3$  — CPT1  $\chi^2=14.01$



M3 (withCPT1) | x=VMON\_3V3D y=SPE\_1VAD8\_C z=M3 — CPT1  $\chi^2=10.40$



M3 (withCPT1) | x=VMON\_3V3\_HK y=SPE\_1VAD8\_C z=M3 — CPT1  $\chi^2=9.30$



## Pairs CPT1-significant ( $\chi^2 > 6$ ) in ALL settings

- SPE\_1VAD8\_C vs PFPS\_MOT\_A
- VMON\_3V3D vs SPE\_1VAD8\_C
- VMON\_3V3\_HK vs SPE\_1VAD8\_C

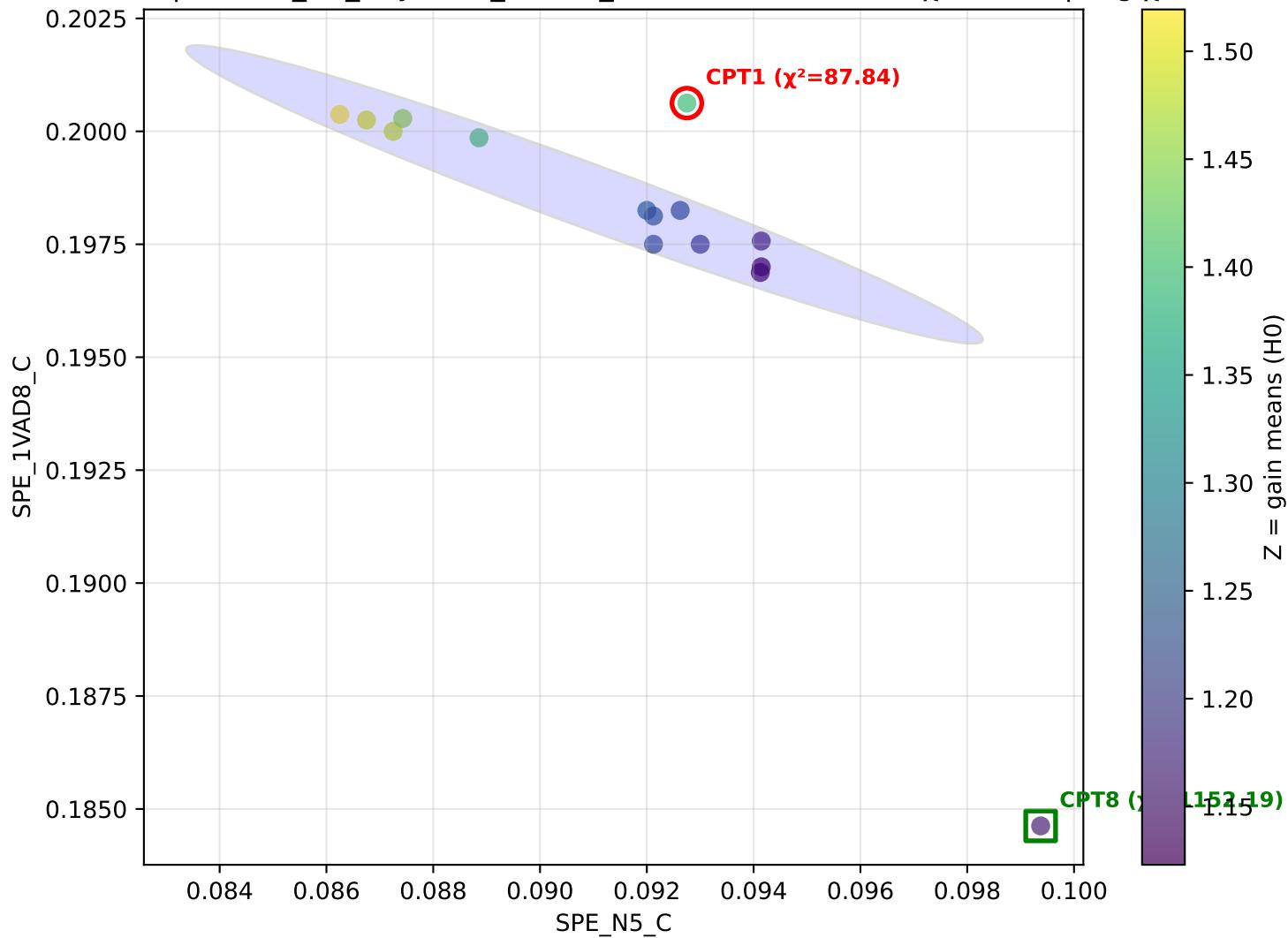
## Top 25 pairs by average $\chi^2$ (CPT1) across settings

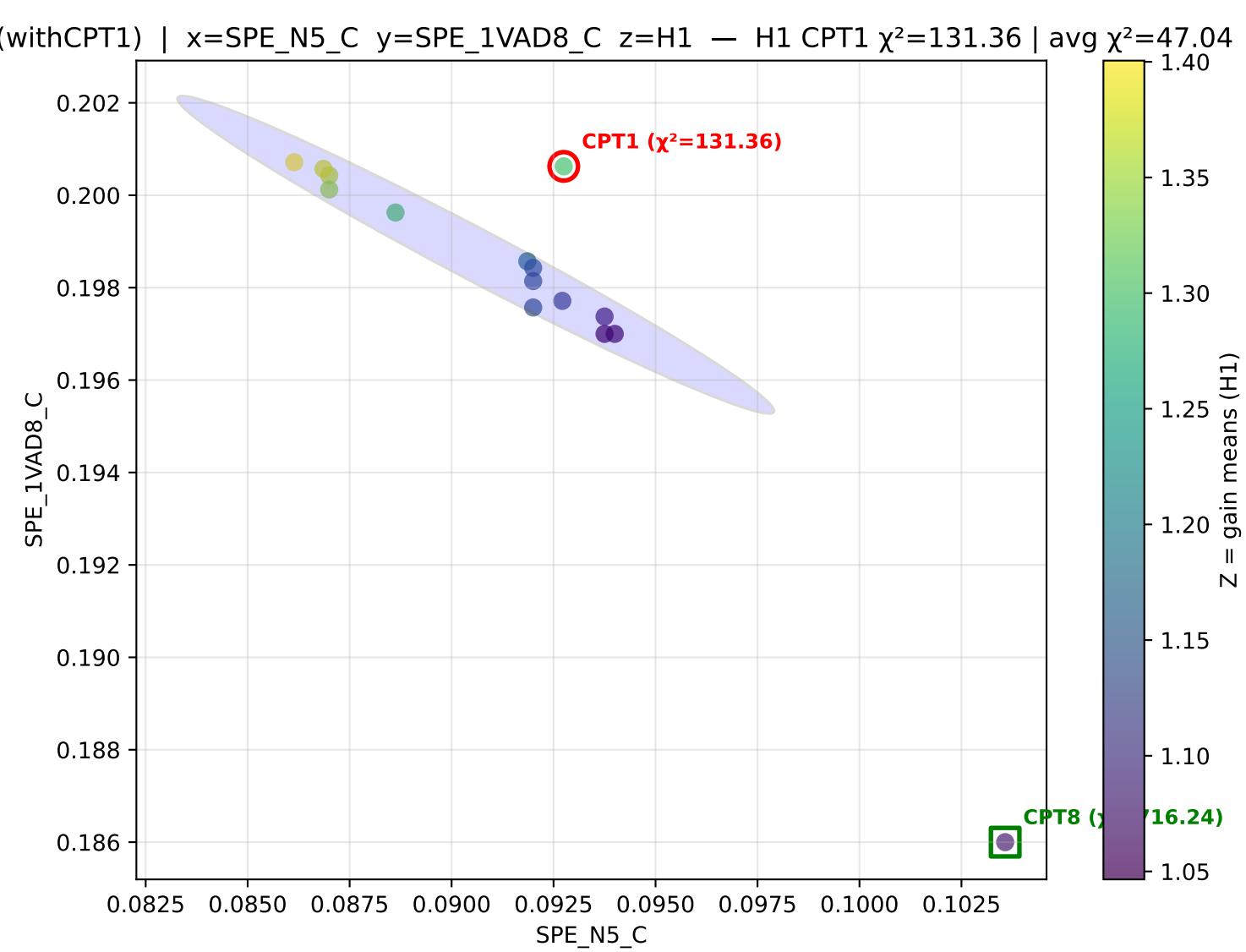
Each pair is plotted for every setting (forced export).

Pair: SPE\_N5\_C vs SPE\_1VAD8\_C

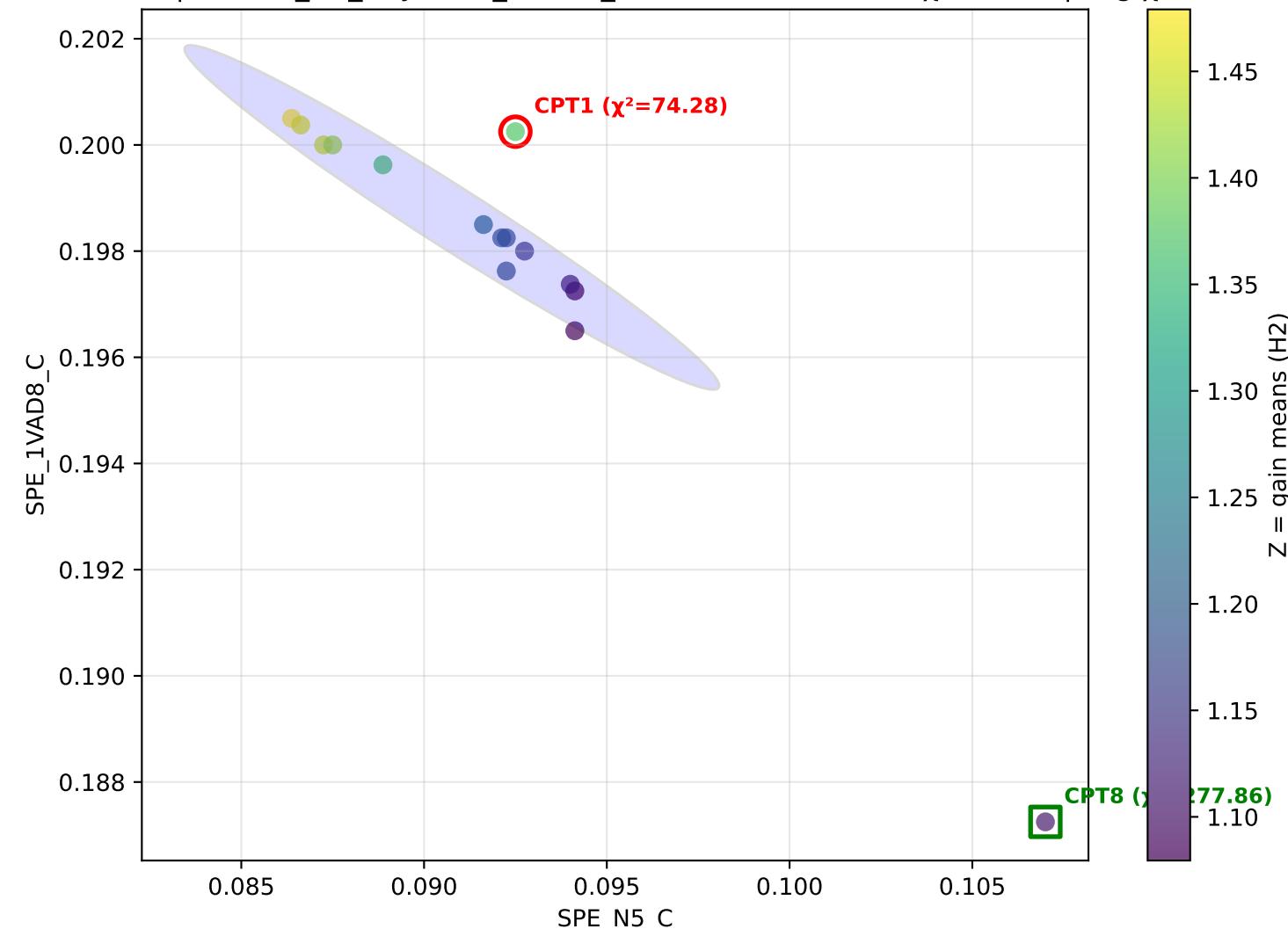
Average  $\chi^2$ (CPT1) across settings: 47.04

0 (withCPT1) | x=SPE\_N5\_C y=SPE\_1VAD8\_C z=H0 — H0 CPT1  $\chi^2=87.84$  | avg  $\chi^2=47.04$

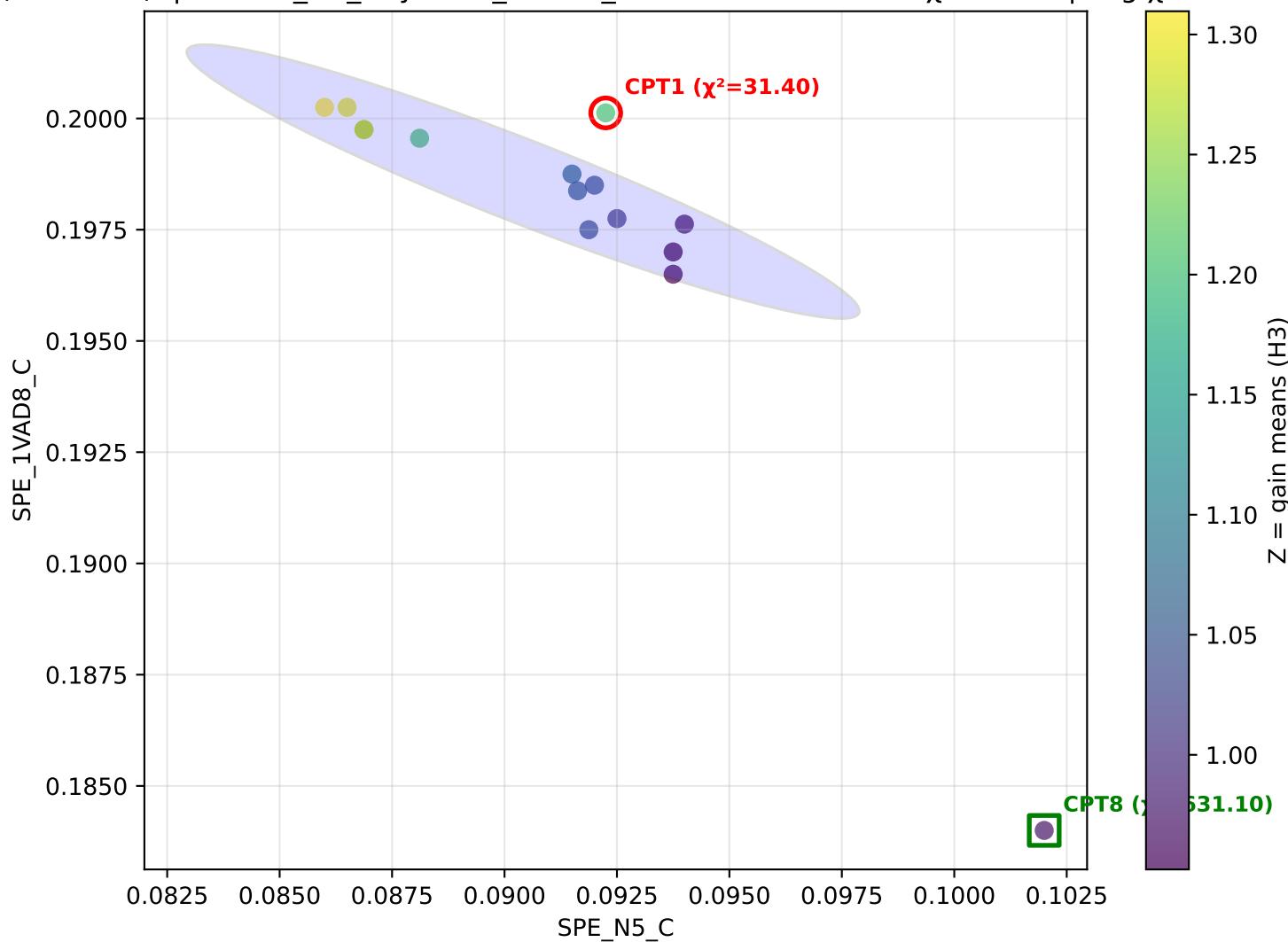


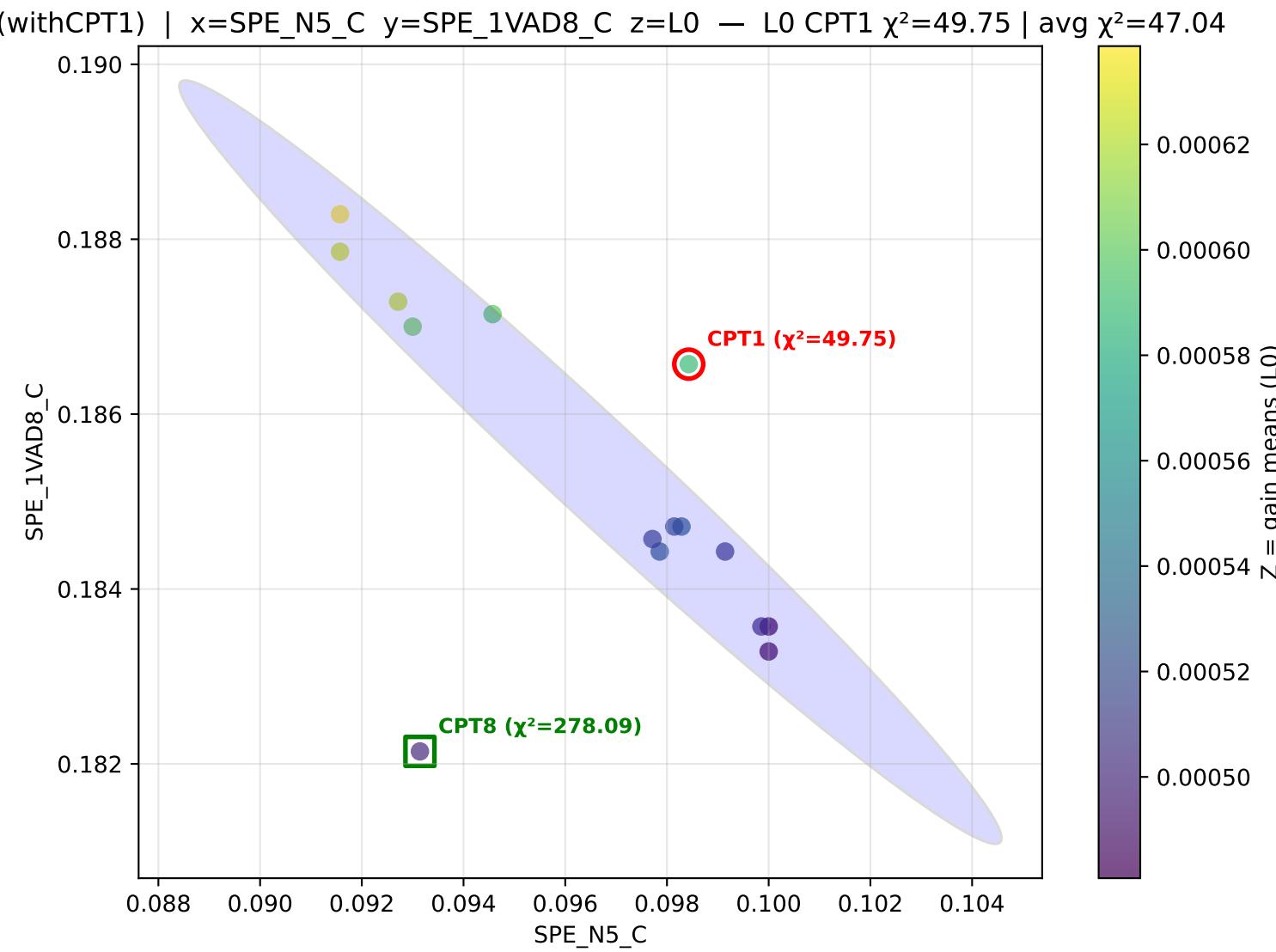


(withCPT1) | x=SPE\_N5\_C y=SPE\_1VAD8\_C z=H2 — H2 CPT1  $\chi^2=74.28$  | avg  $\chi^2=47.04$

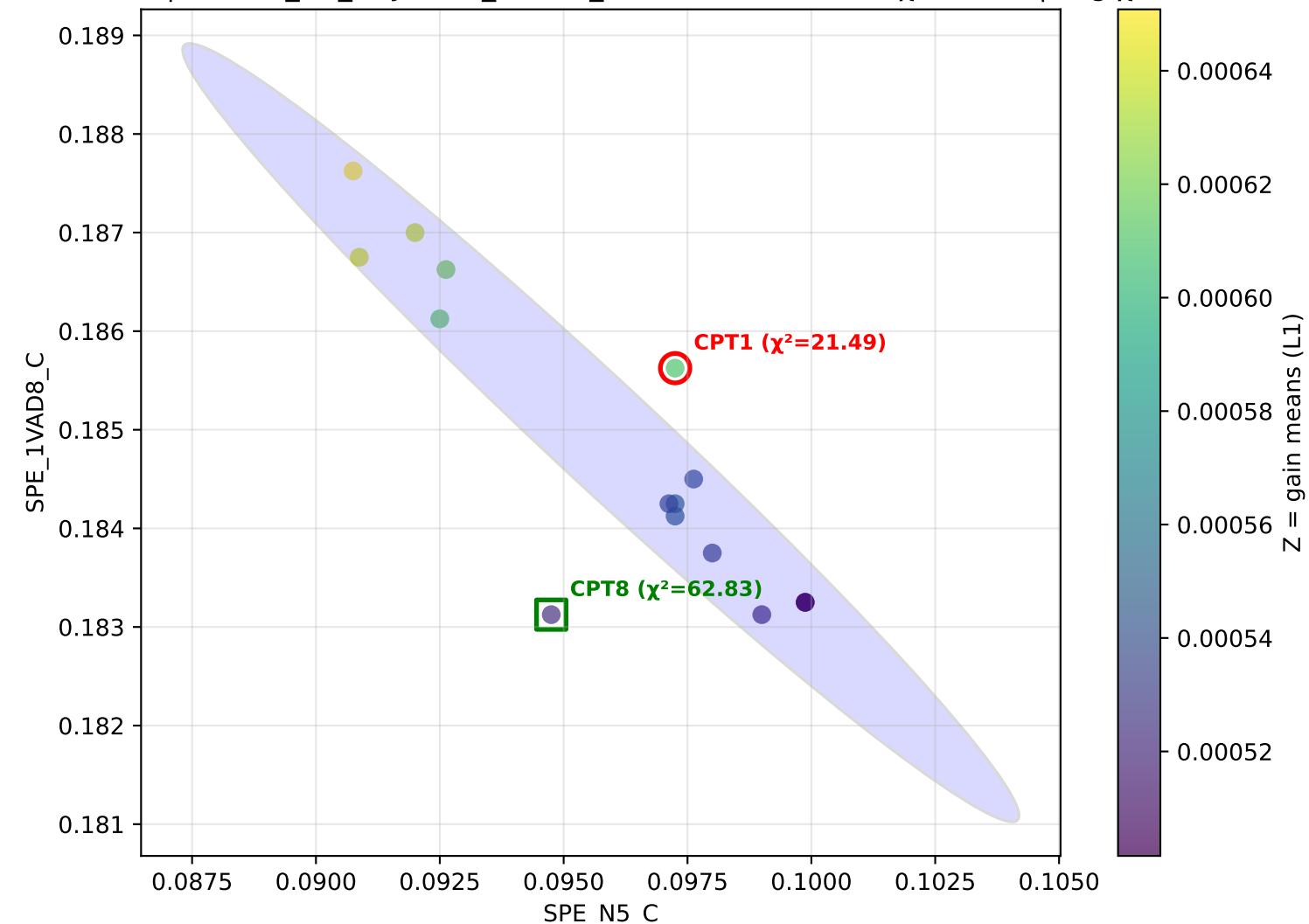


B (withCPT1) | x=SPE N5 C y=SPE 1VAD8 C z=H3 — H3 CPT1  $\chi^2=31.40$  | avg  $\chi^2=47.04$

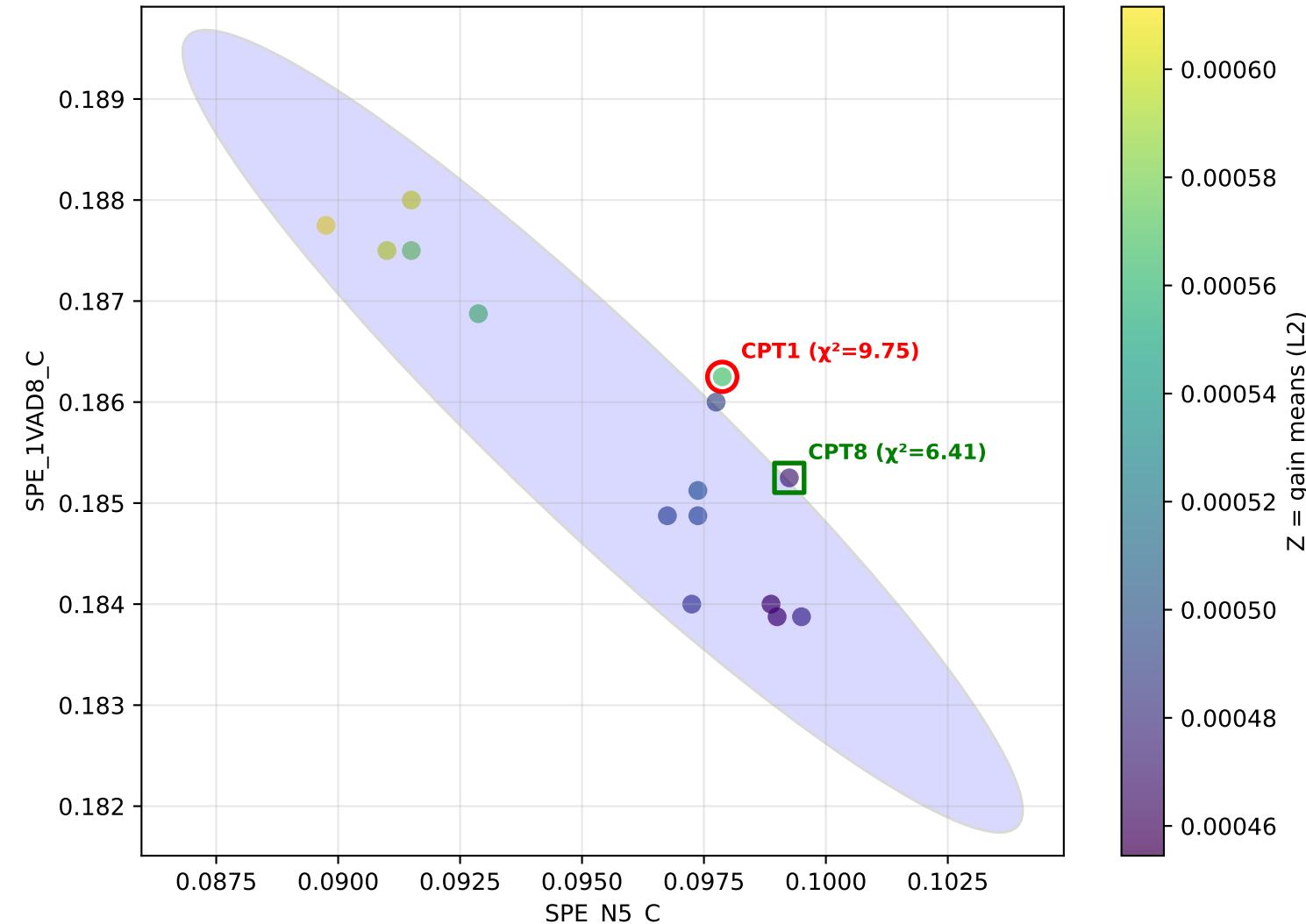




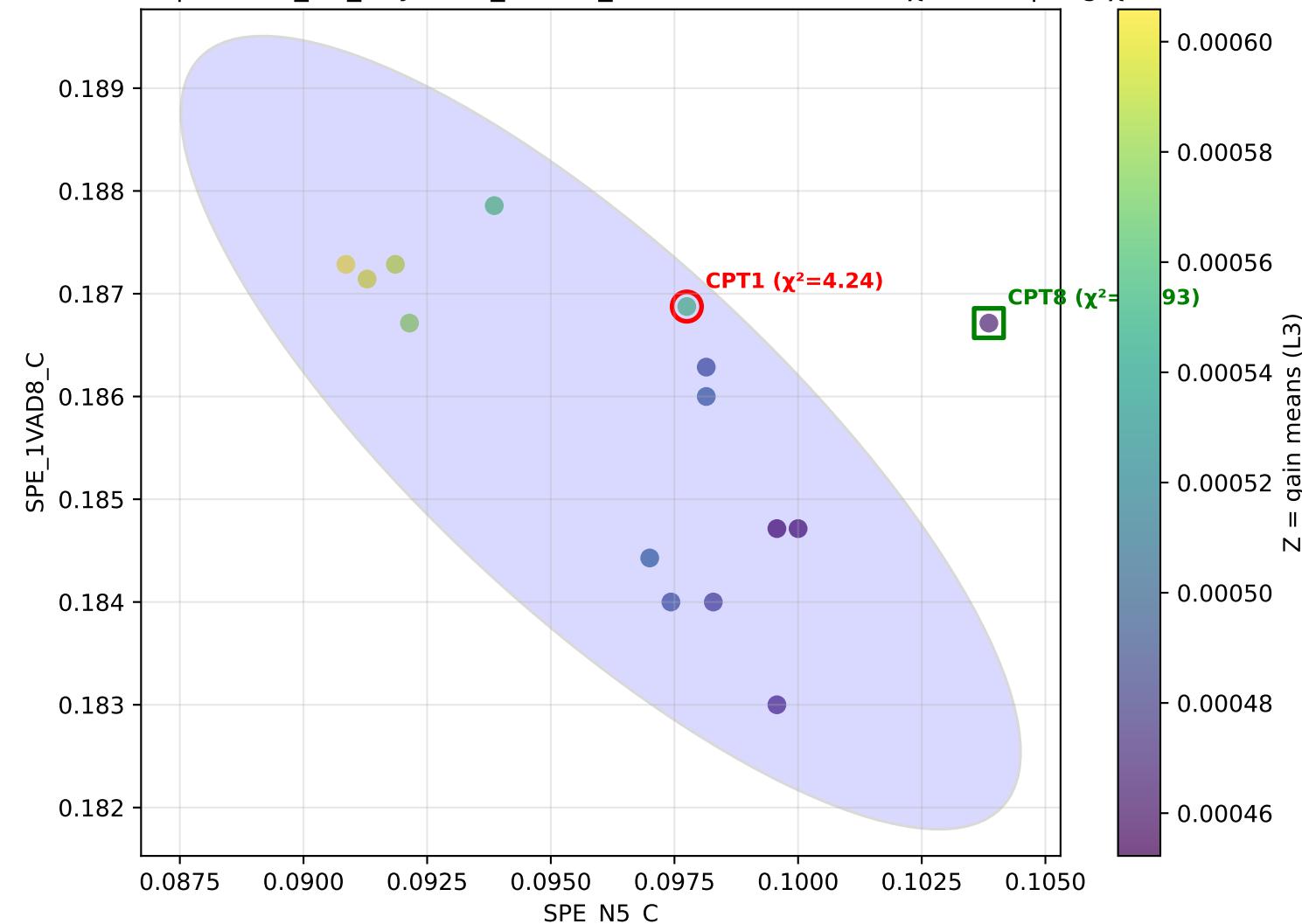
(withCPT1) | x=SPE\_N5\_C y=SPE\_1VAD8\_C z=L1 — L1 CPT1  $\chi^2=21.49$  | avg  $\chi^2=47.04$



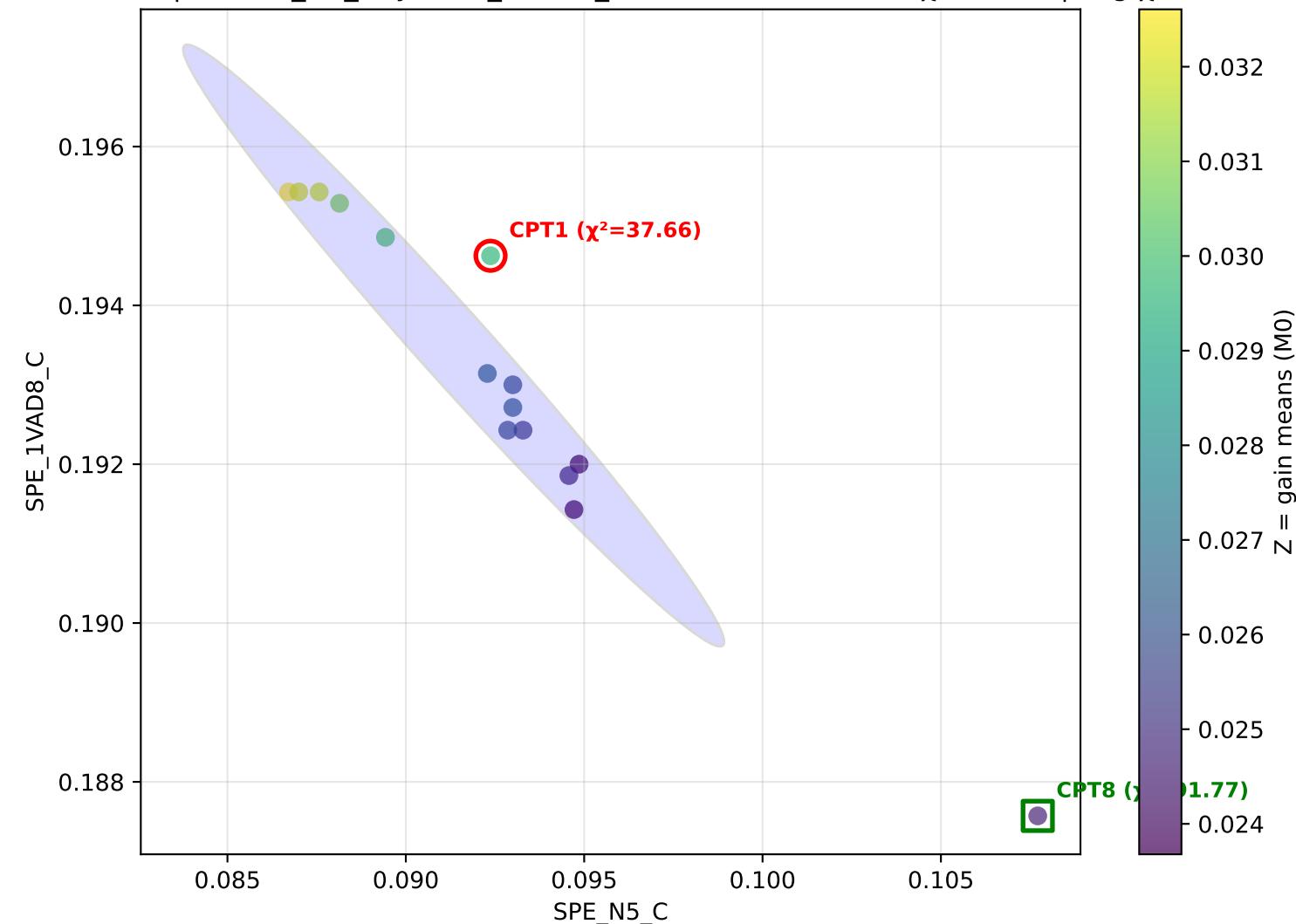
(withCPT1) | x=SPE\_N5\_C y=SPE\_1VAD8\_C z=L2 — L2 CPT1  $\chi^2=9.75$  | avg  $\chi^2=47.04$



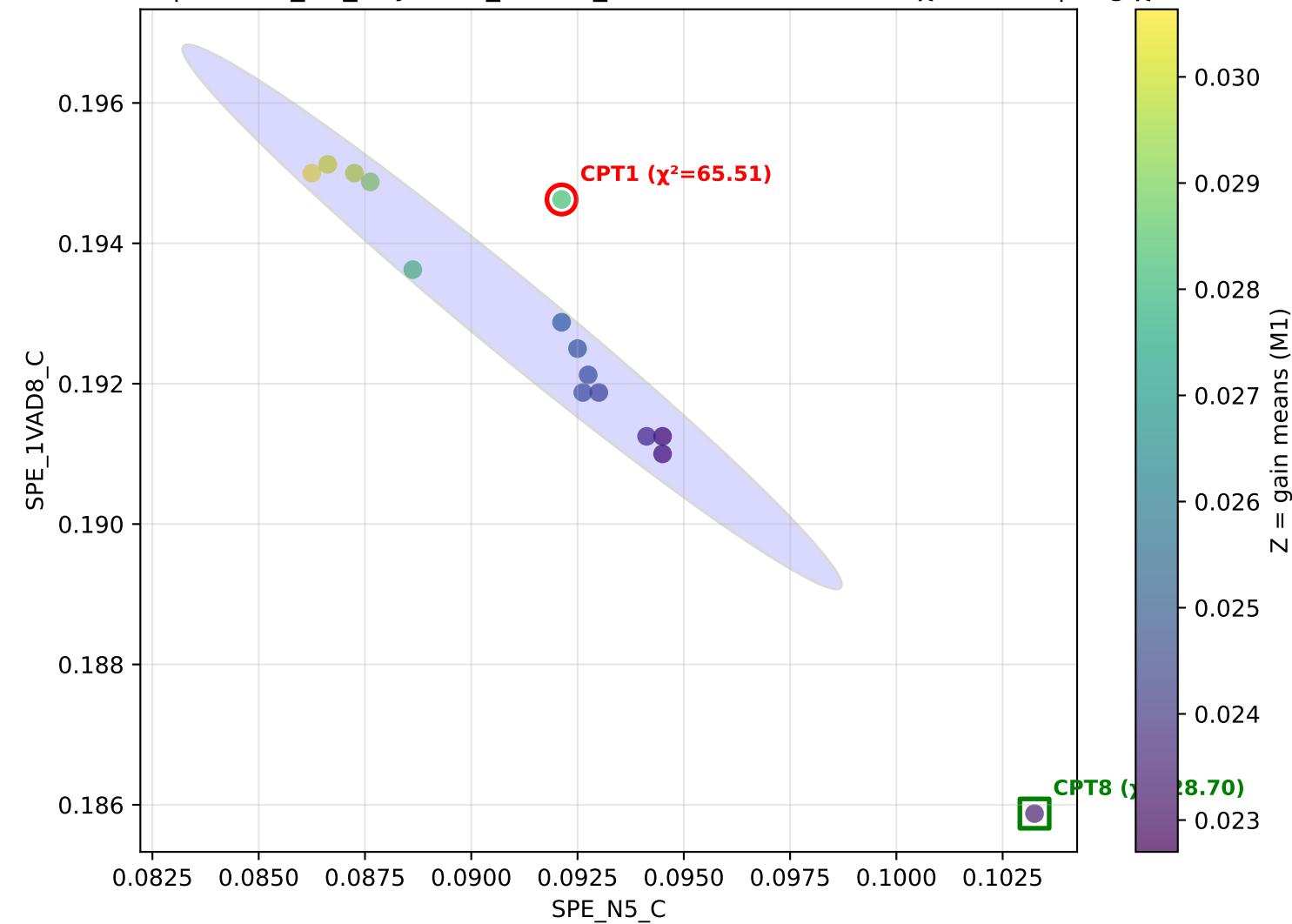
(withCPT1) | x=SPE\_N5\_C y=SPE\_1VAD8\_C z=L3 — L3 CPT1  $\chi^2=4.24$  | avg  $\chi^2=47.04$



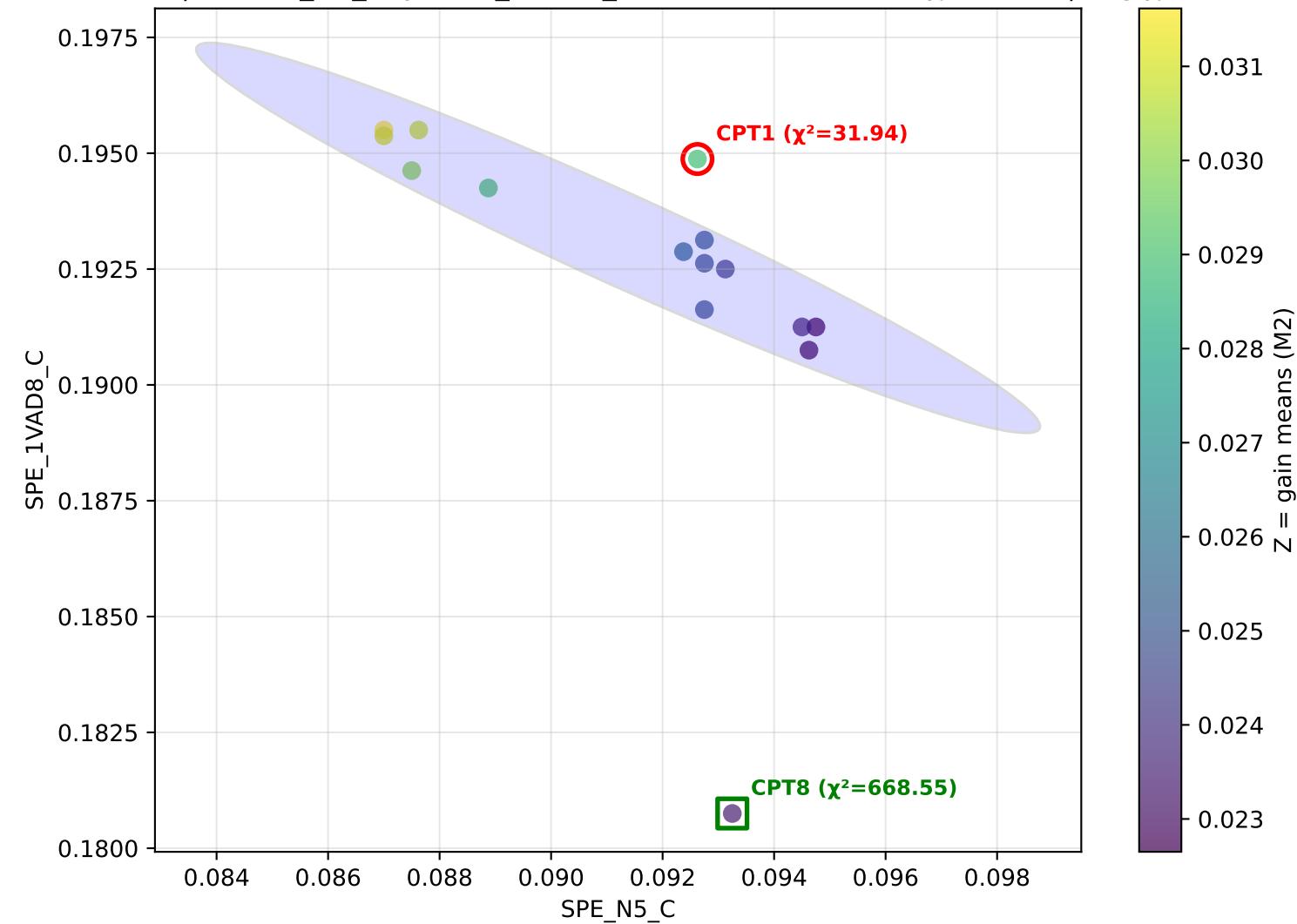
(withCPT1) | x=SPE\_N5\_C y=SPE\_1VAD8\_C z=M0 — M0 CPT1  $\chi^2=37.66$  | avg  $\chi^2=47.04$



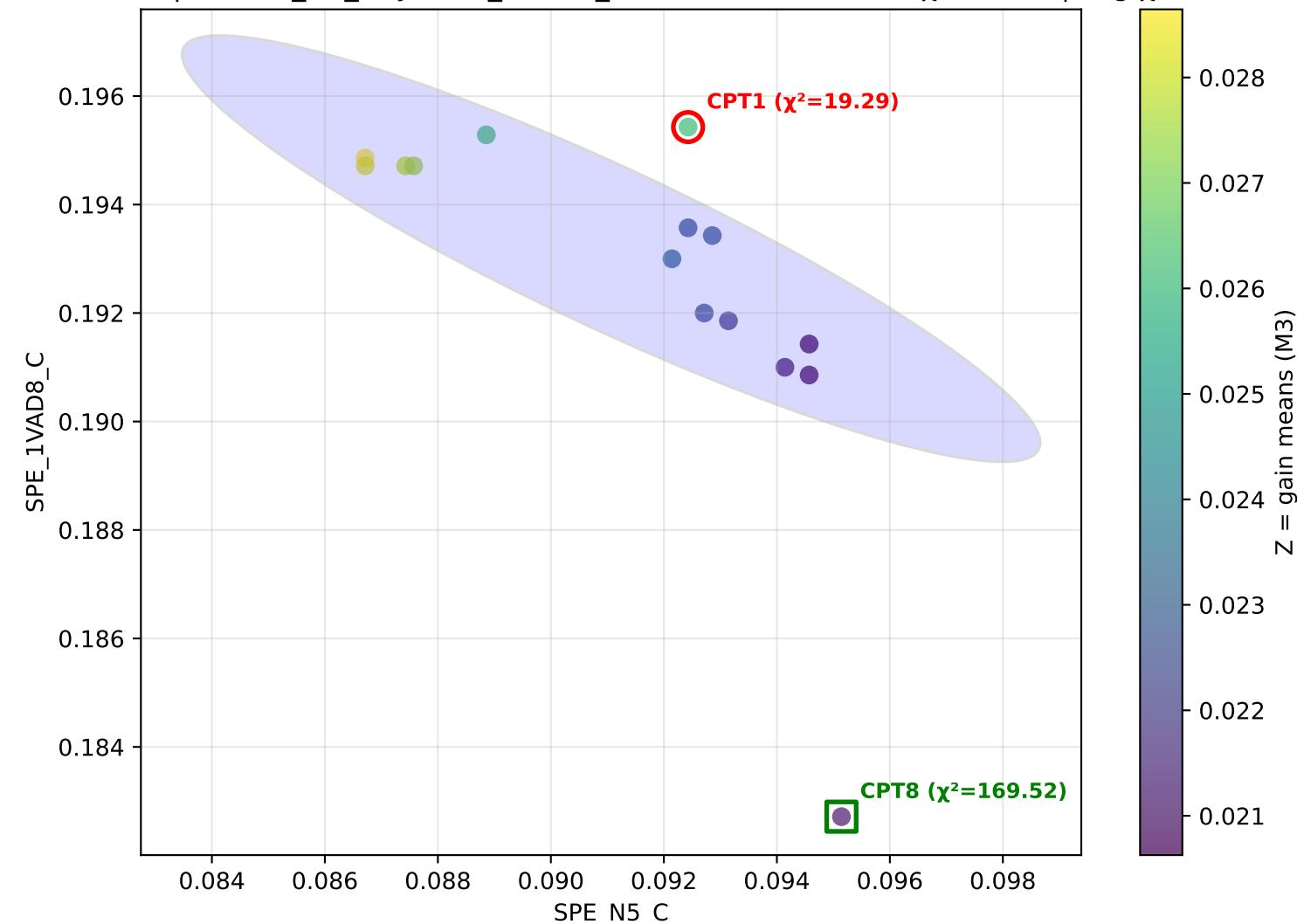
(withCPT1) | x=SPE\_N5\_C y=SPE\_1VAD8\_C z=M1 — M1 CPT1  $\chi^2=65.51$  | avg  $\chi^2=47.04$



(withCPT1) | x=SPE\_N5\_C y=SPE\_1VAD8\_C z=M2 — M2 CPT1  $\chi^2=31.94$  | avg  $\chi^2=47.04$



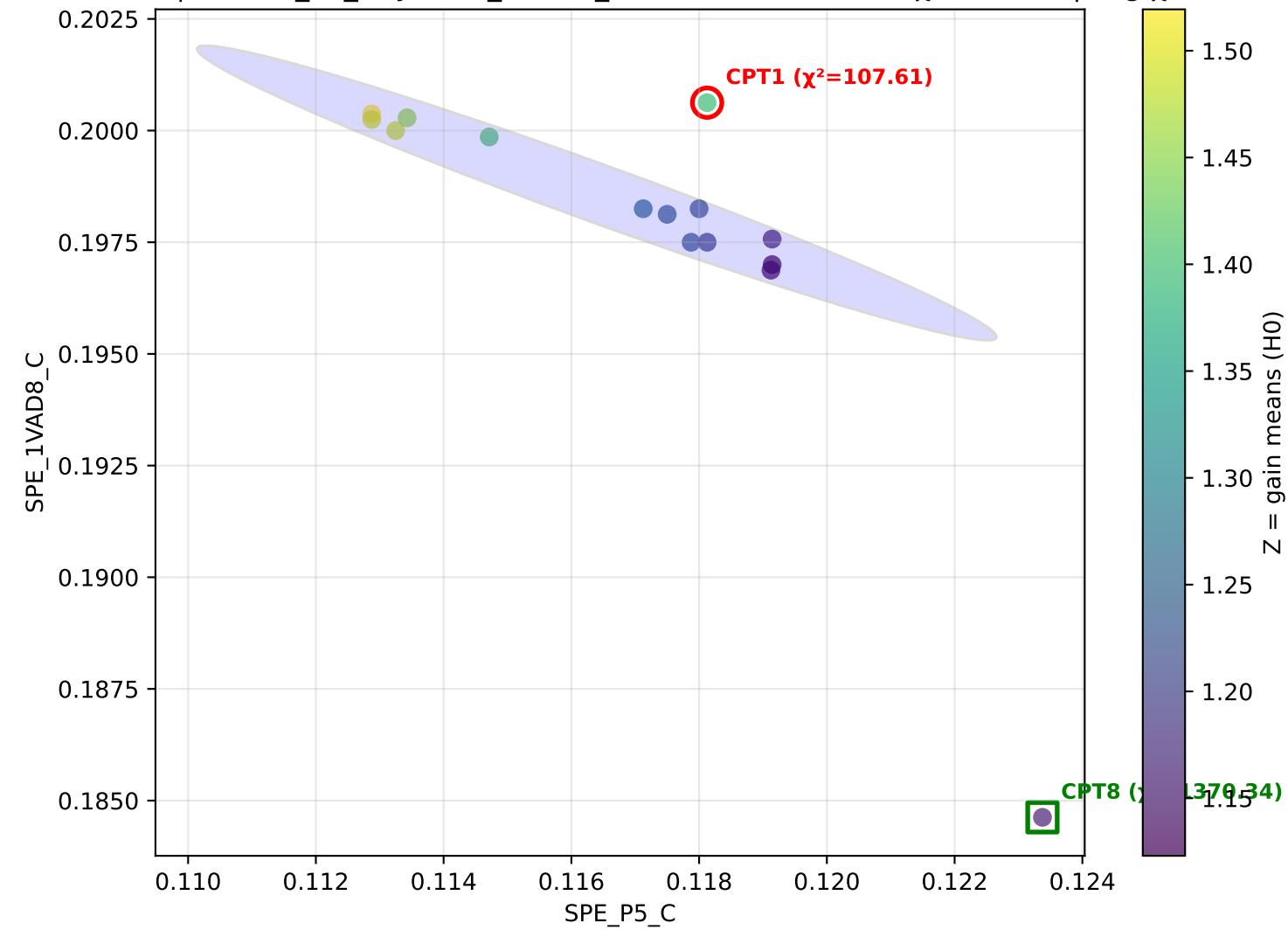
(withCPT1) | x=SPE\_N5\_C y=SPE\_1VAD8\_C z=M3 — M3 CPT1  $\chi^2=19.29$  | avg  $\chi^2=47.04$



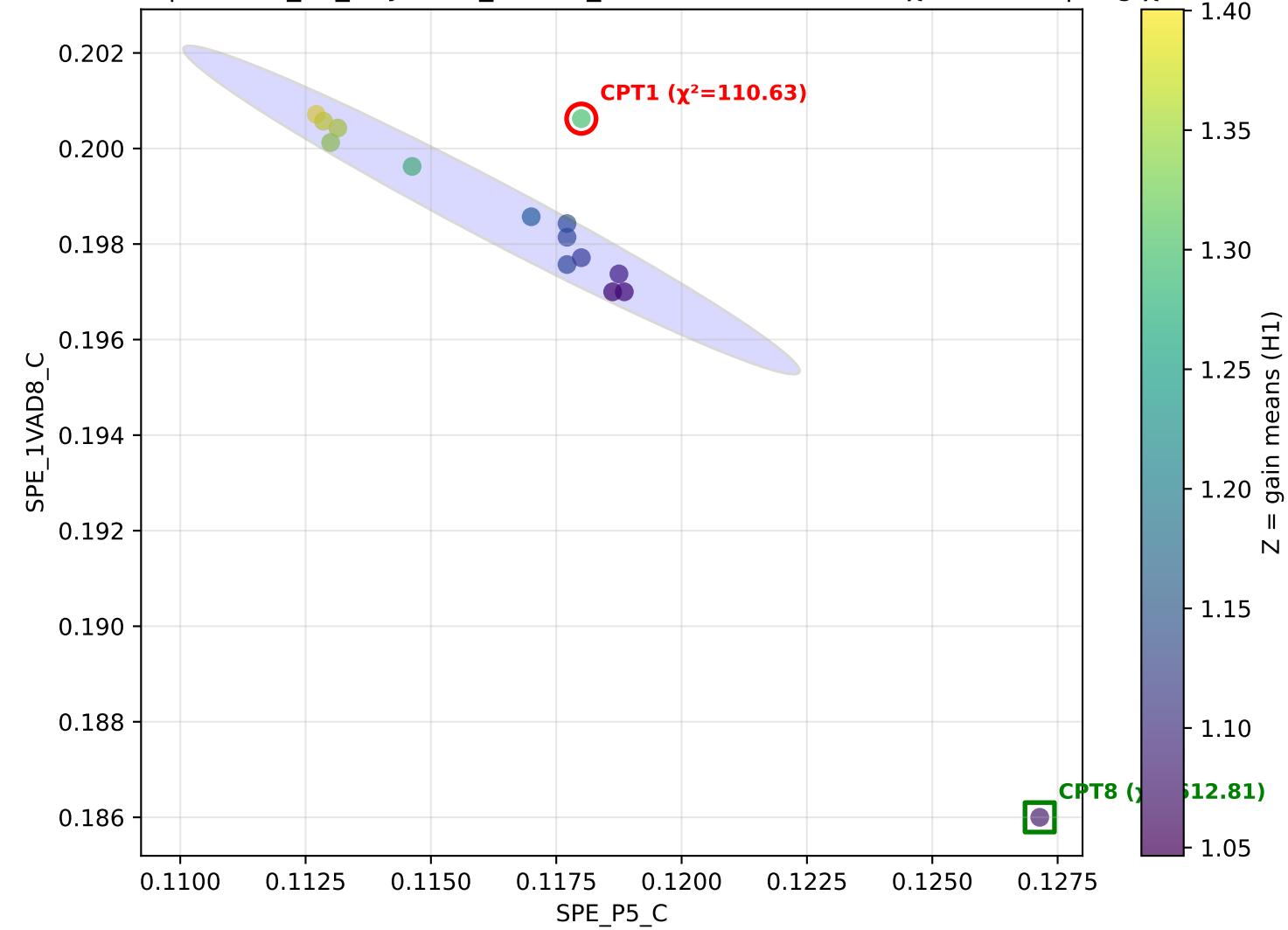
Pair: SPE\_P5\_C vs SPE\_1VAD8\_C

Average  $\chi^2$ (CPT1) across settings: 45.31

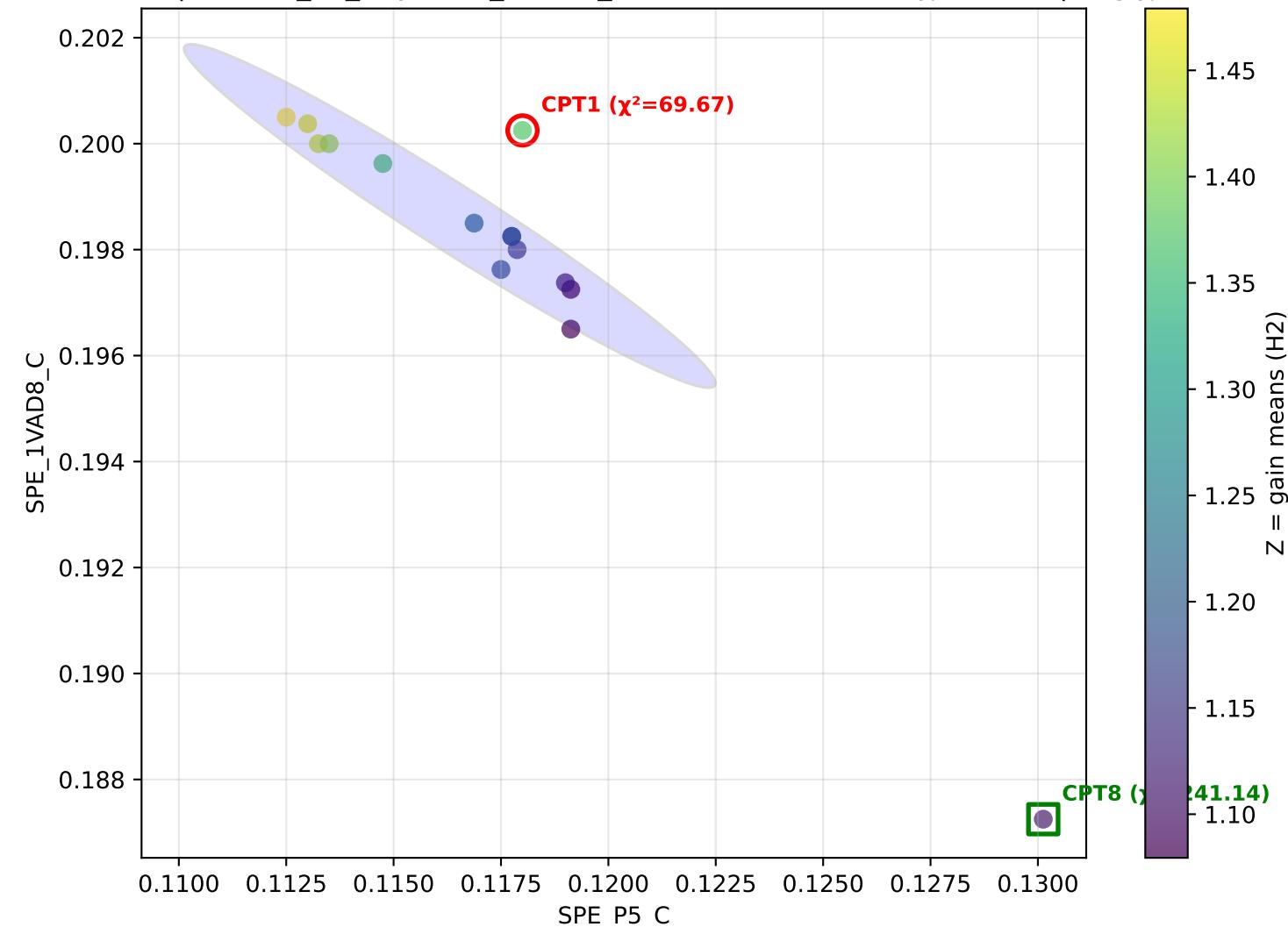
(withCPT1) | x=SPE\_P5\_C y=SPE\_1VAD8\_C z=H0 — H0 CPT1  $\chi^2=107.61$  | avg  $\chi^2=45.31$



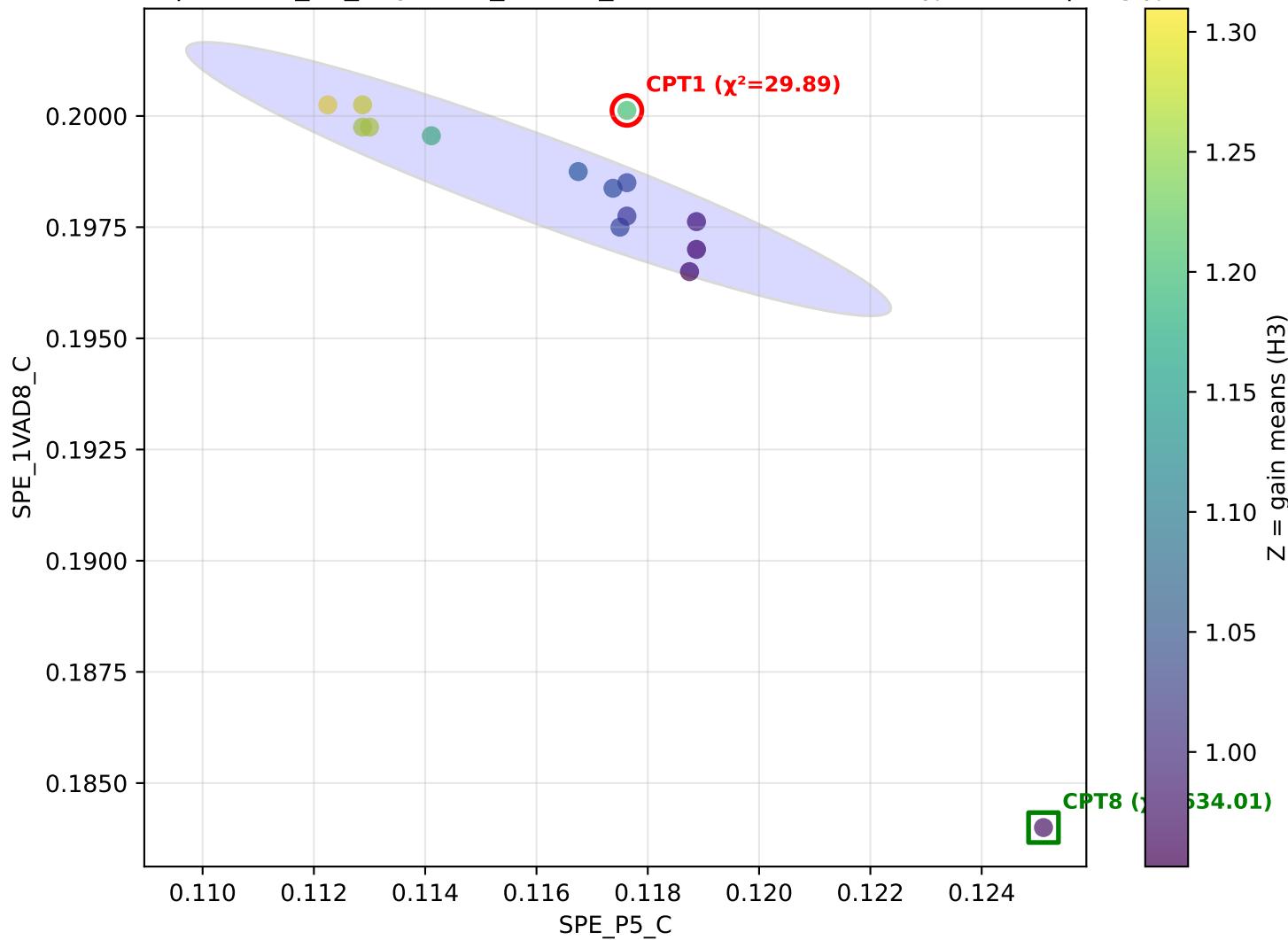
(withCPT1) | x=SPE\_P5\_C y=SPE\_1VAD8\_C z=H1 — H1 CPT1  $\chi^2=110.63$  | avg  $\chi^2=45.31$

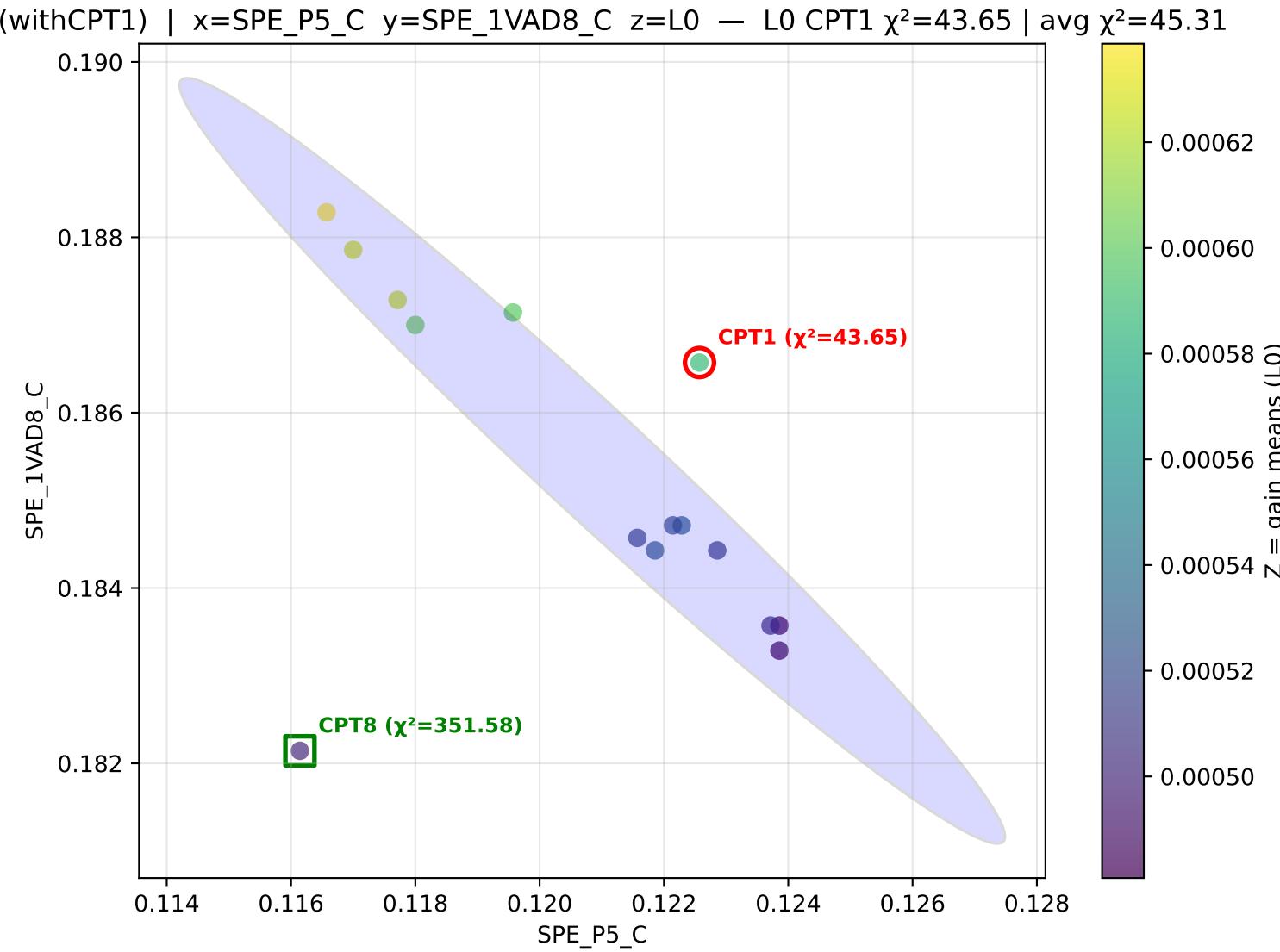


(withCPT1) | x=SPE\_P5\_C y=SPE\_1VAD8\_C z=H2 — H2 CPT1  $\chi^2=69.67$  | avg  $\chi^2=45.31$

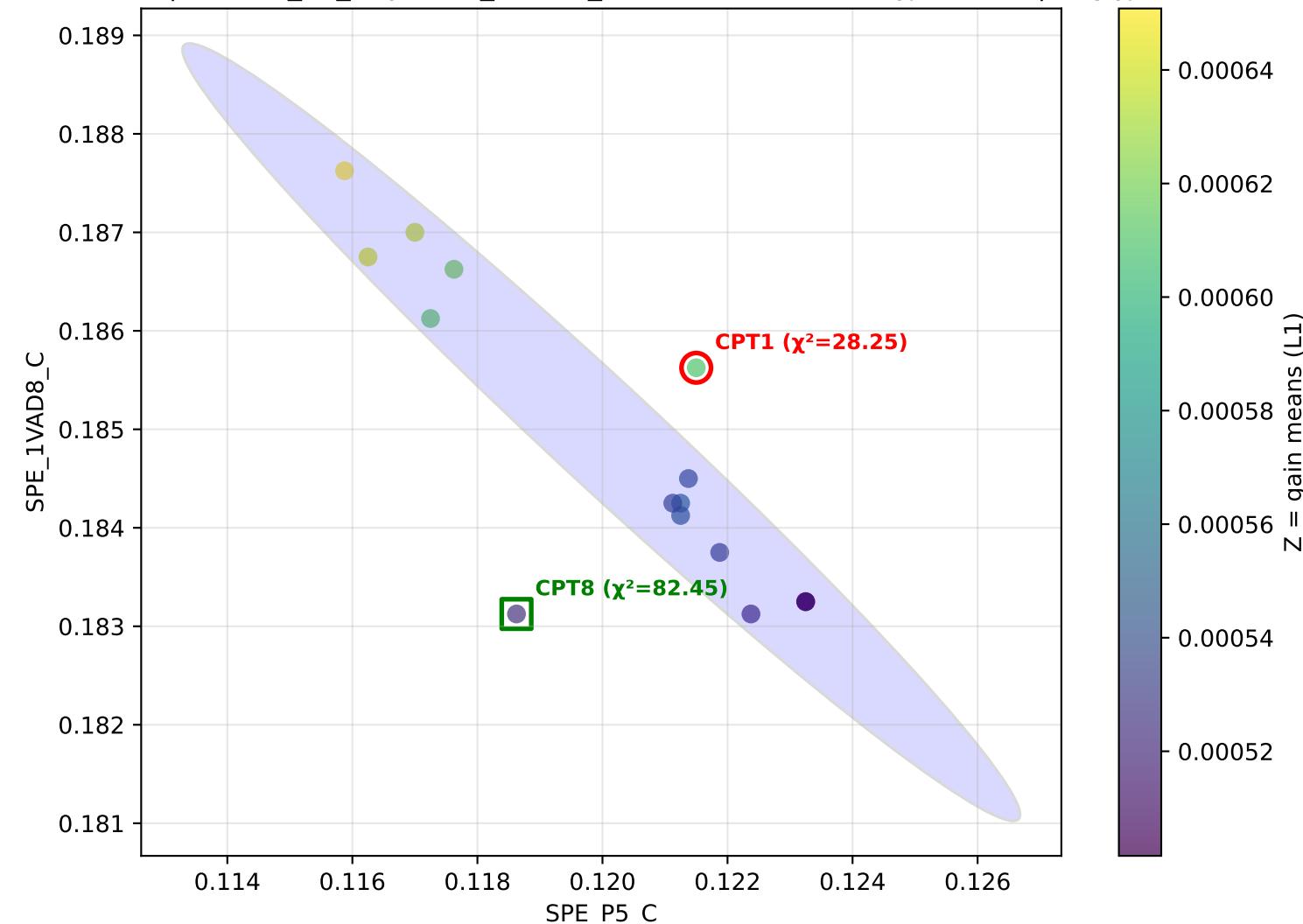


B (withCPT1) | x=SPE\_P5\_C y=SPE\_1VAD8\_C z=H3 — H3 CPT1  $\chi^2=29.89$  | avg  $\chi^2=45.31$

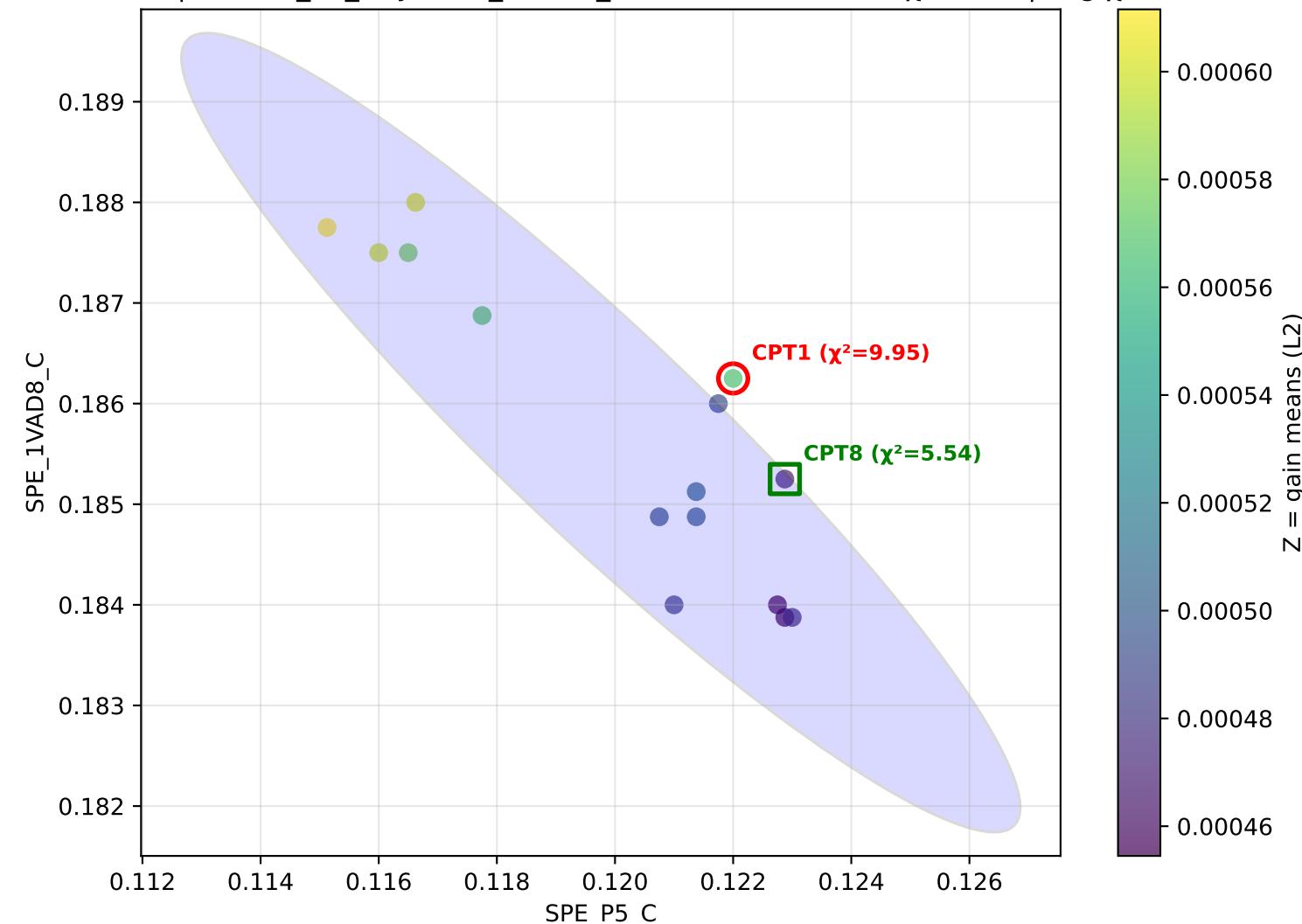




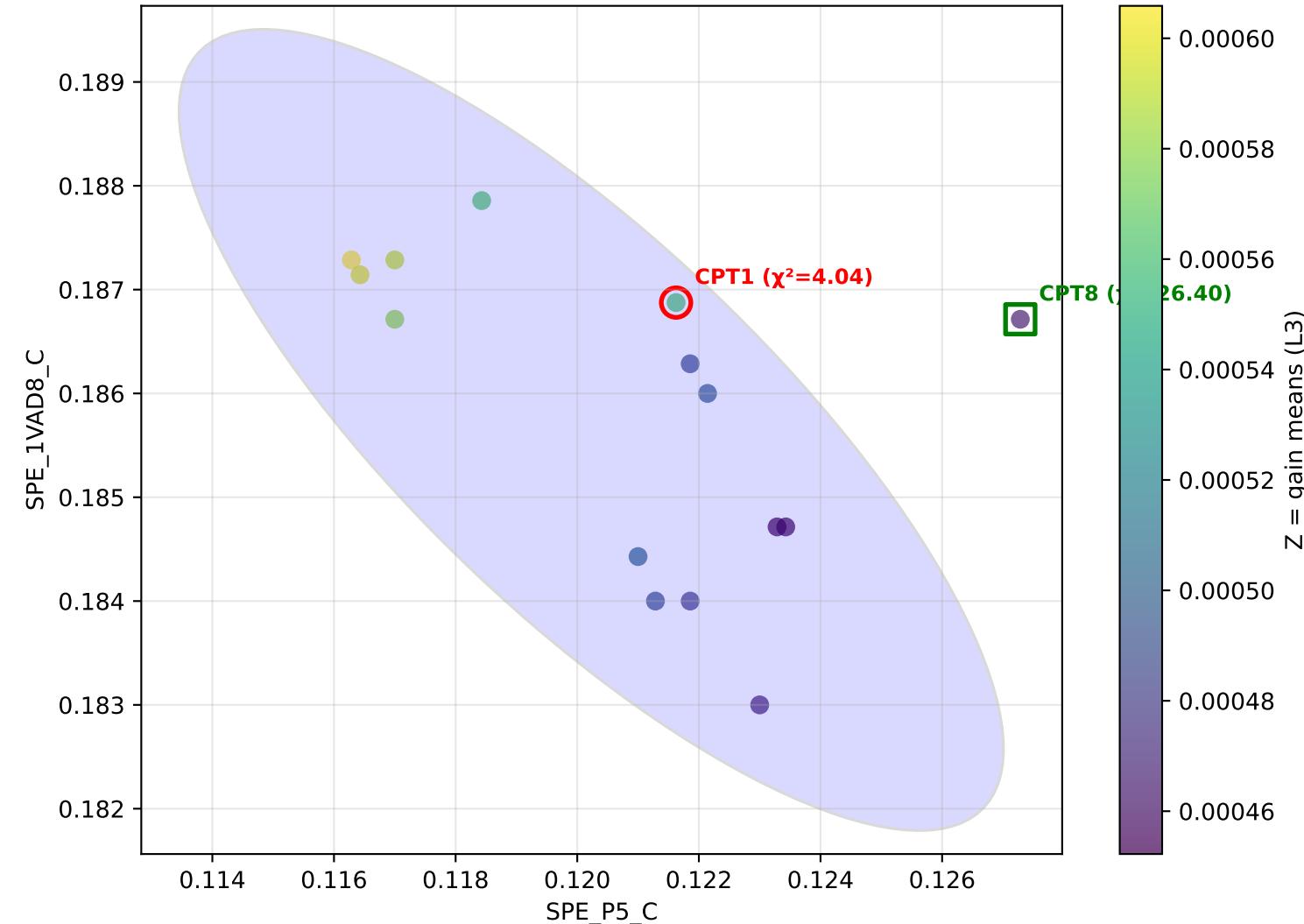
(withCPT1) | x=SPE\_P5\_C y=SPE\_1VAD8\_C z=L1 — L1 CPT1  $\chi^2=28.25$  | avg  $\chi^2=45.31$



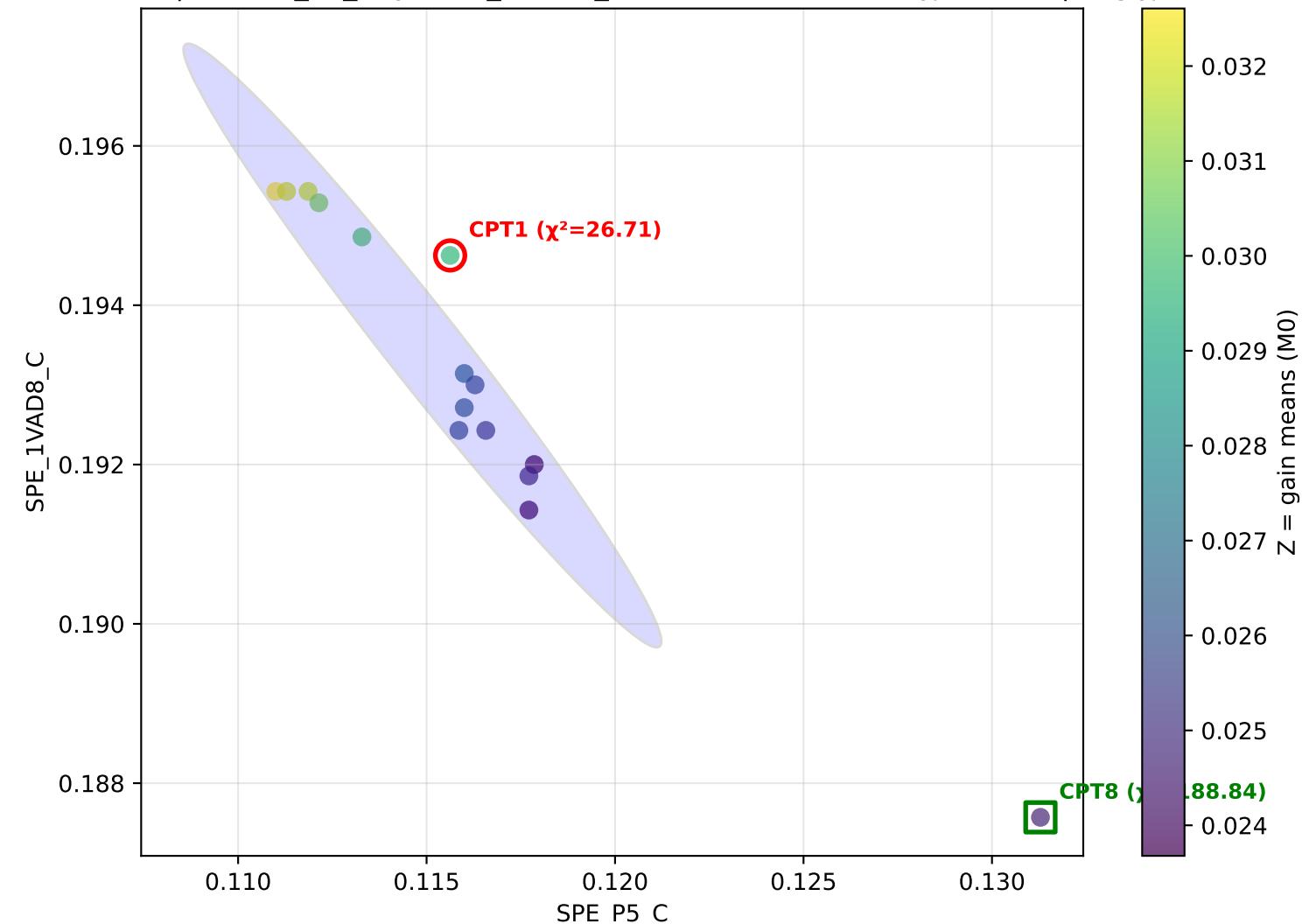
(withCPT1) | x=SPE\_P5\_C y=SPE\_1VAD8\_C z=L2 — L2 CPT1  $\chi^2=9.95$  | avg  $\chi^2=45.31$



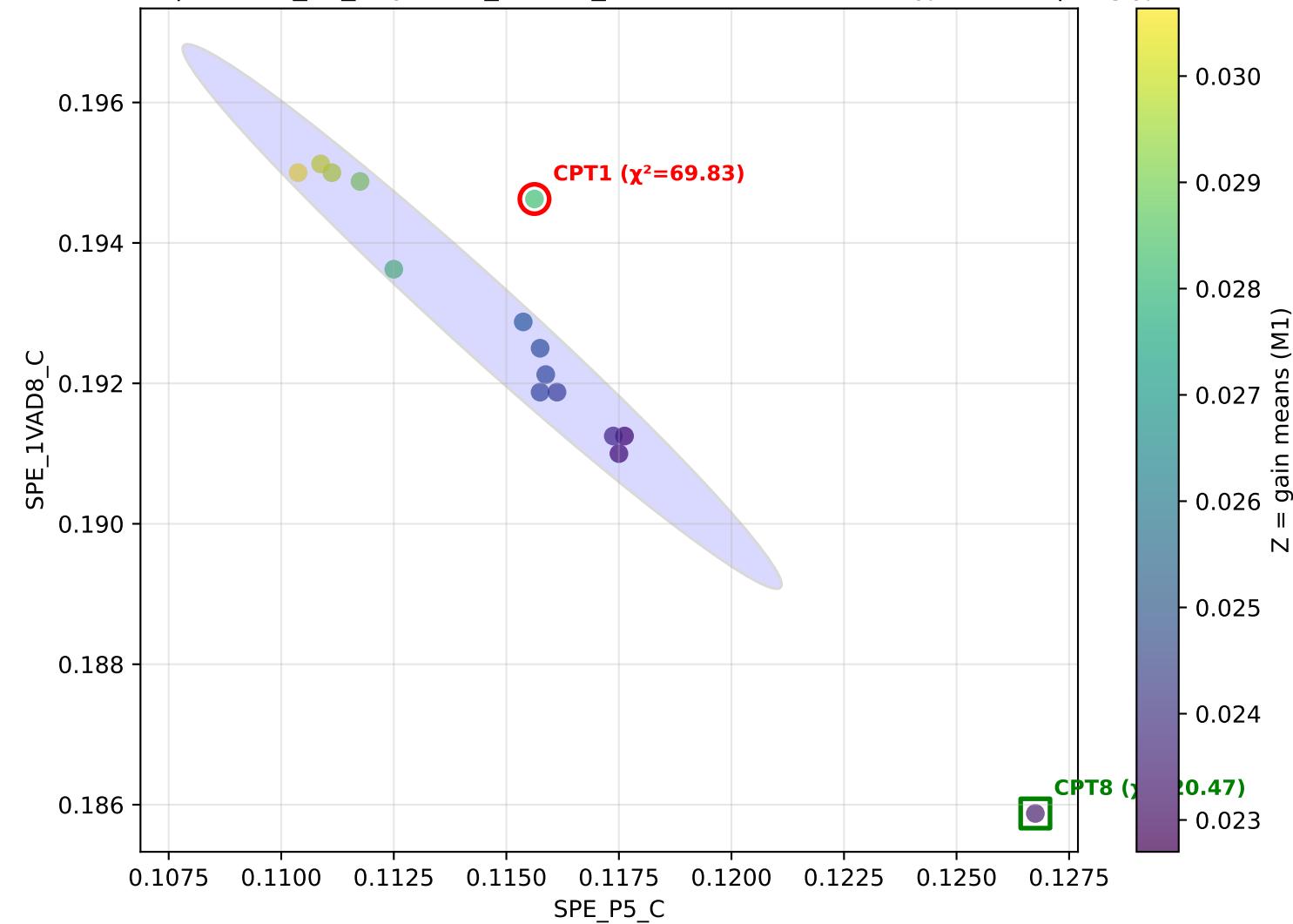
(withCPT1) | x=SPE\_P5\_C y=SPE\_1VAD8\_C z=L3 — L3 CPT1  $\chi^2=4.04$  | avg  $\chi^2=45.31$



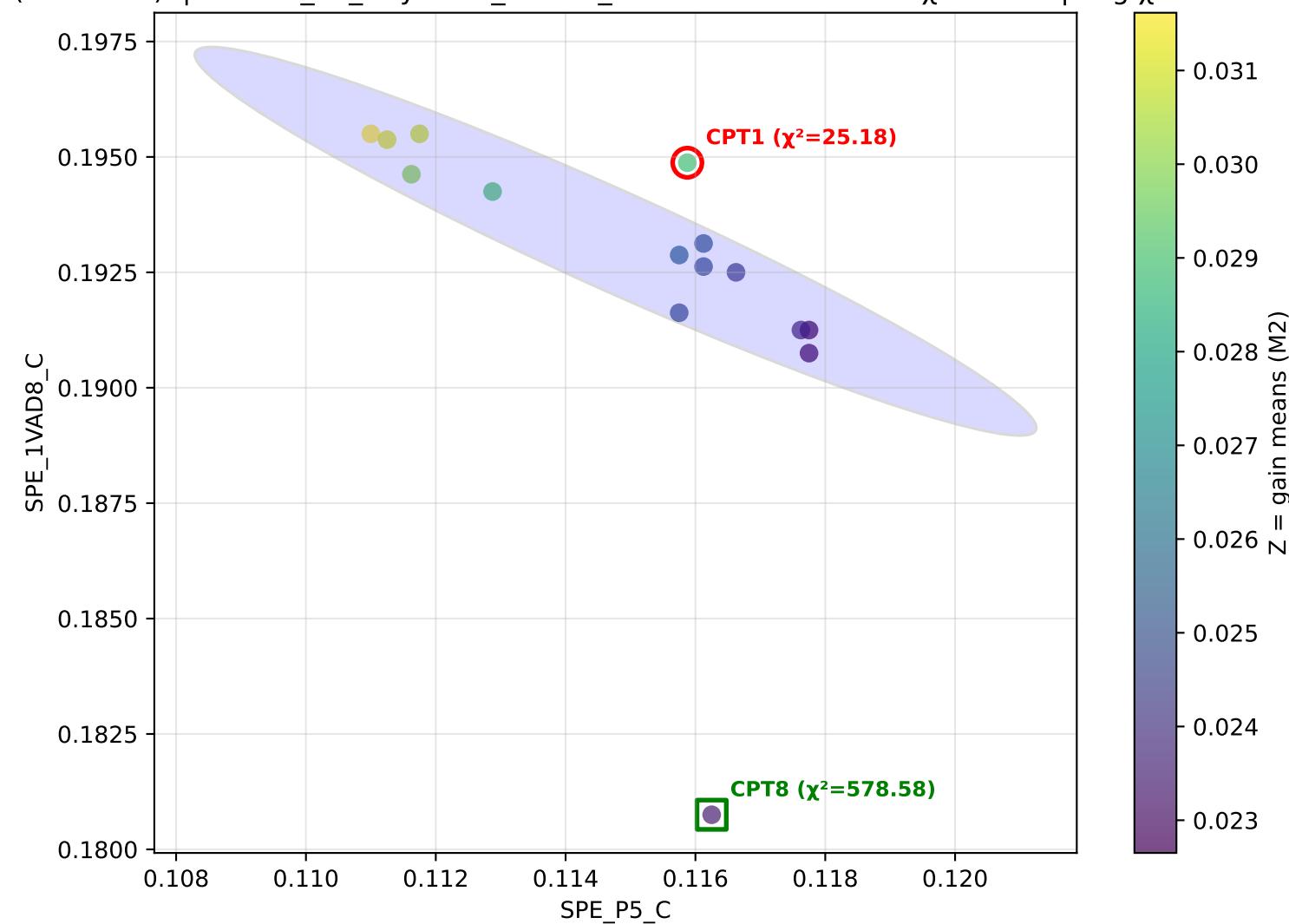
(withCPT1) | x=SPE\_P5\_C y=SPE\_1VAD8\_C z=M0 — M0 CPT1  $\chi^2=26.71$  | avg  $\chi^2=45.31$



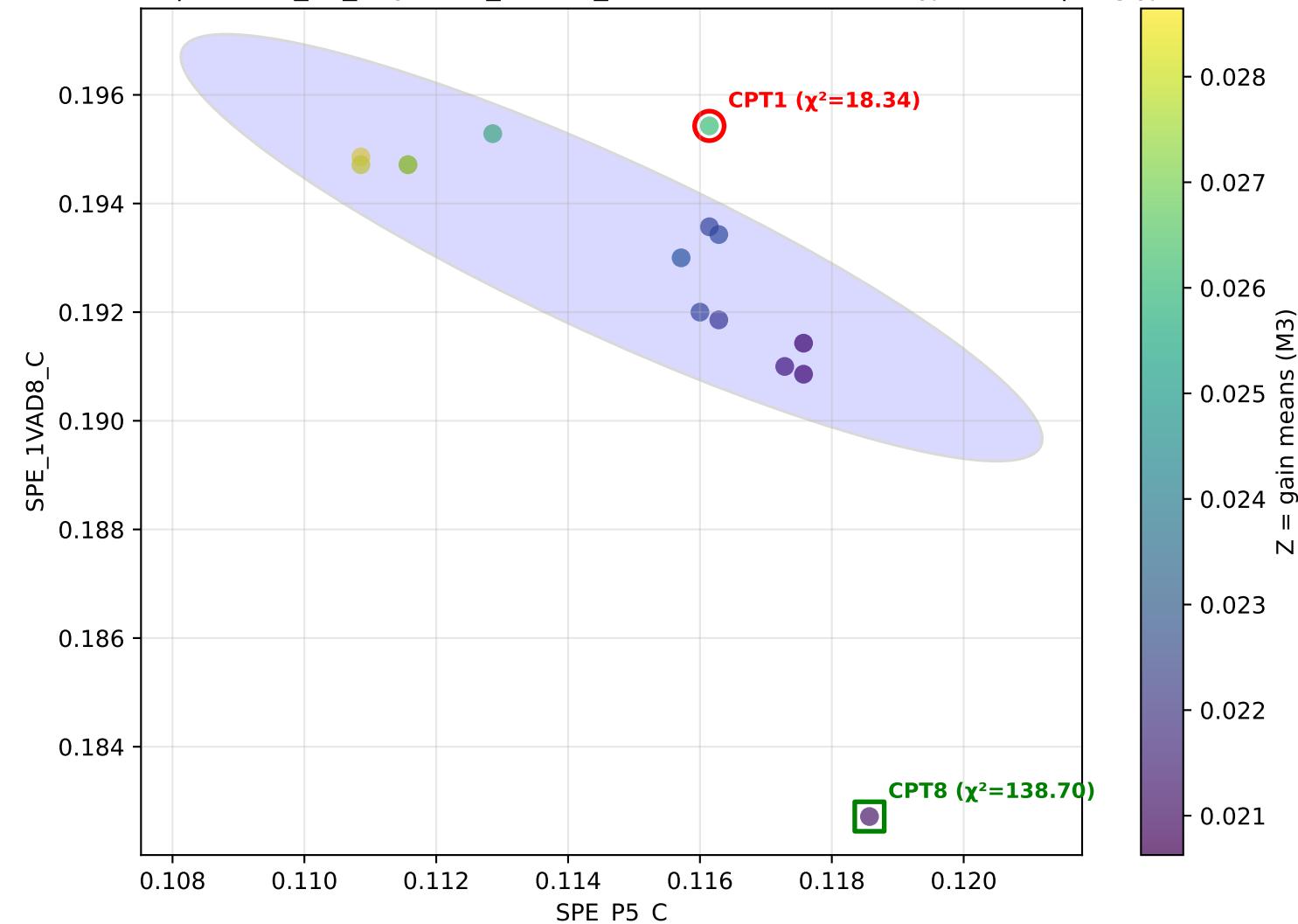
(withCPT1) | x=SPE\_P5\_C y=SPE\_1VAD8\_C z=M1 — M1 CPT1  $\chi^2=69.83$  | avg  $\chi^2=45.31$



2 (withCPT1) | x=SPE P5 C y=SPE 1VAD8 C z=M2 — M2 CPT1  $\chi^2=25.18$  | avg  $\chi^2=45.31$



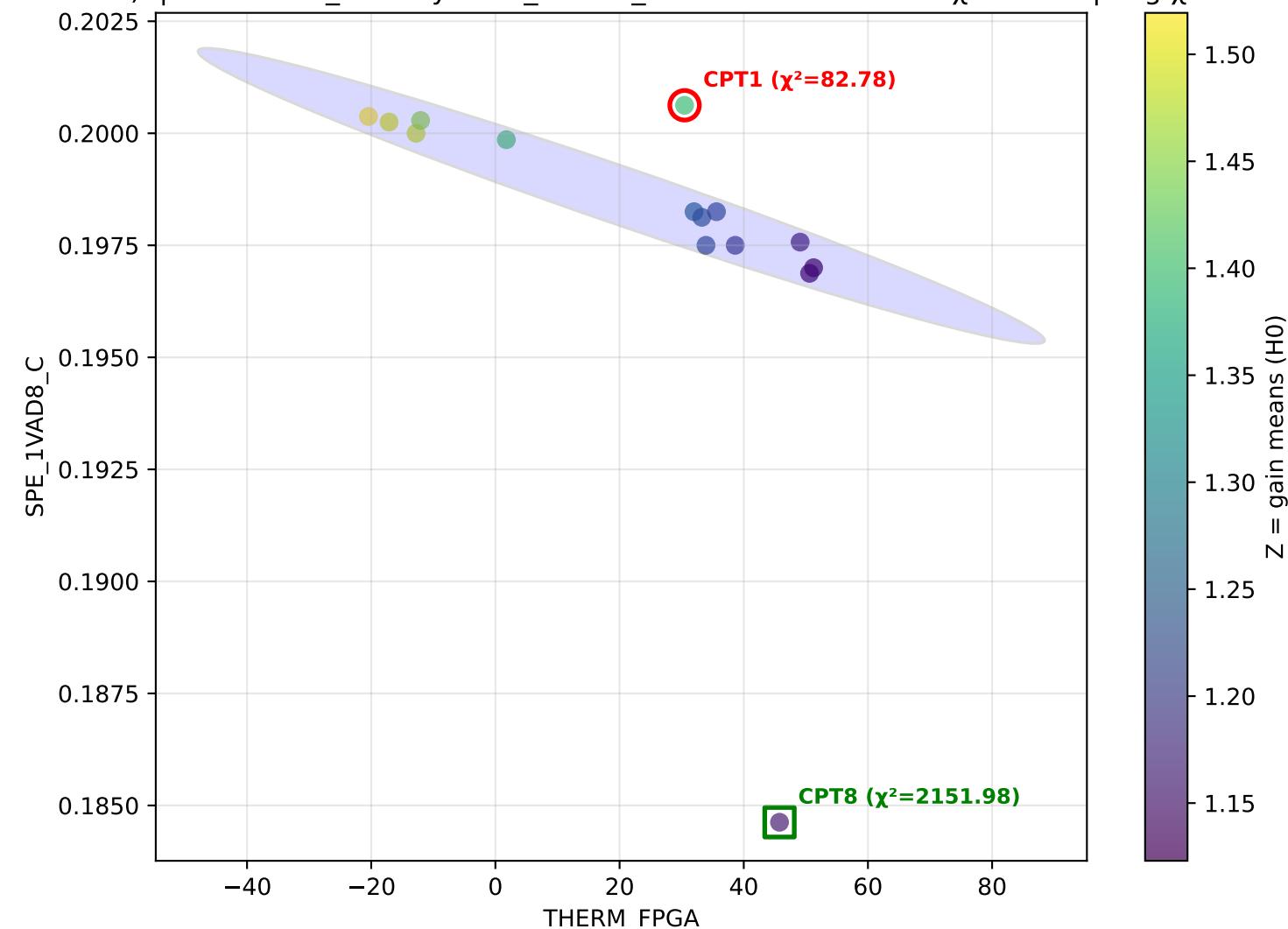
(withCPT1) | x=SPE\_P5\_C y=SPE\_1VAD8\_C z=M3 — M3 CPT1  $\chi^2=18.34$  | avg  $\chi^2=45.31$



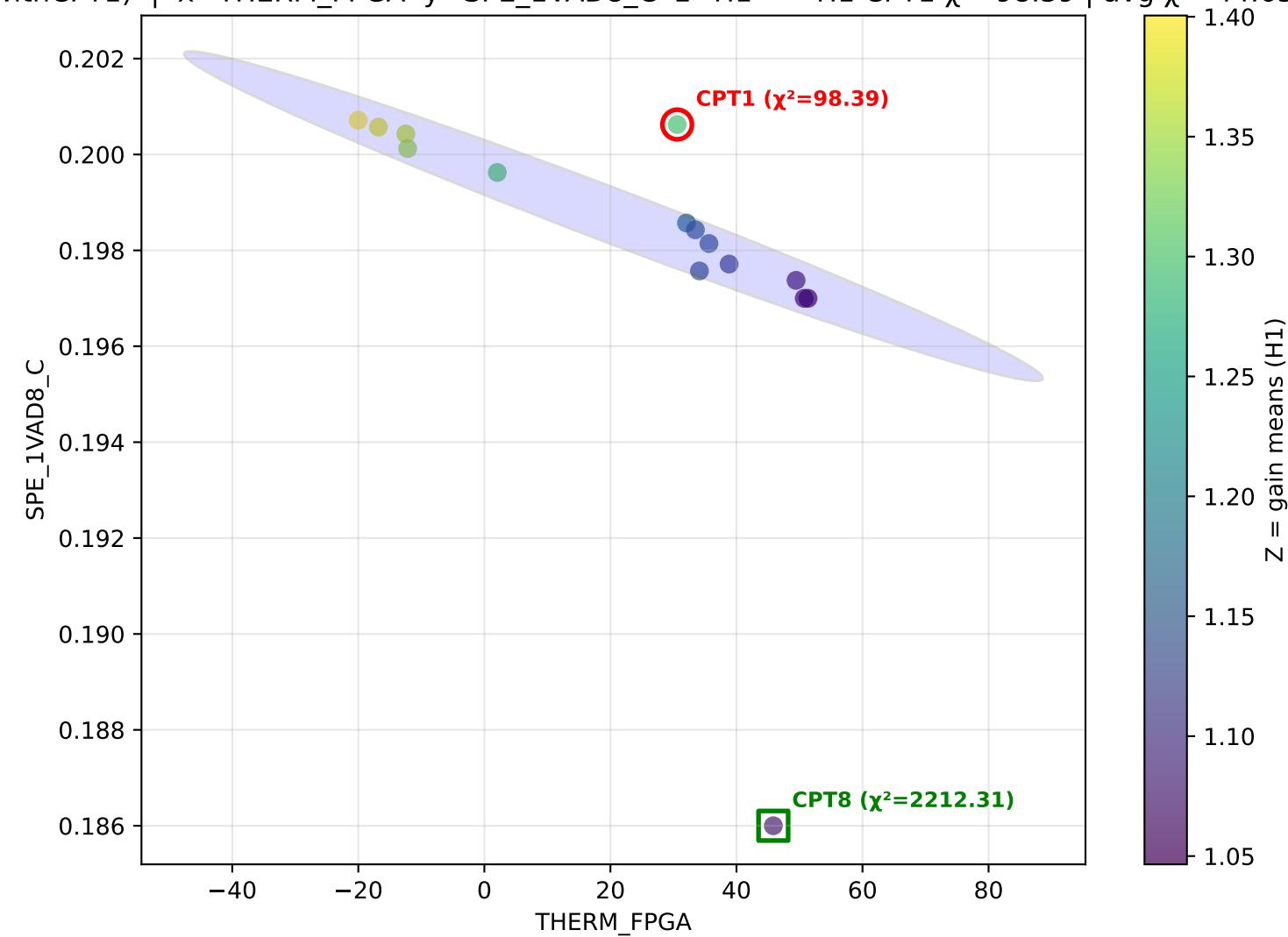
Pair: THERM\_FPGA vs SPE\_1VAD8\_C

Average  $\chi^2$ (CPT1) across settings: 44.65

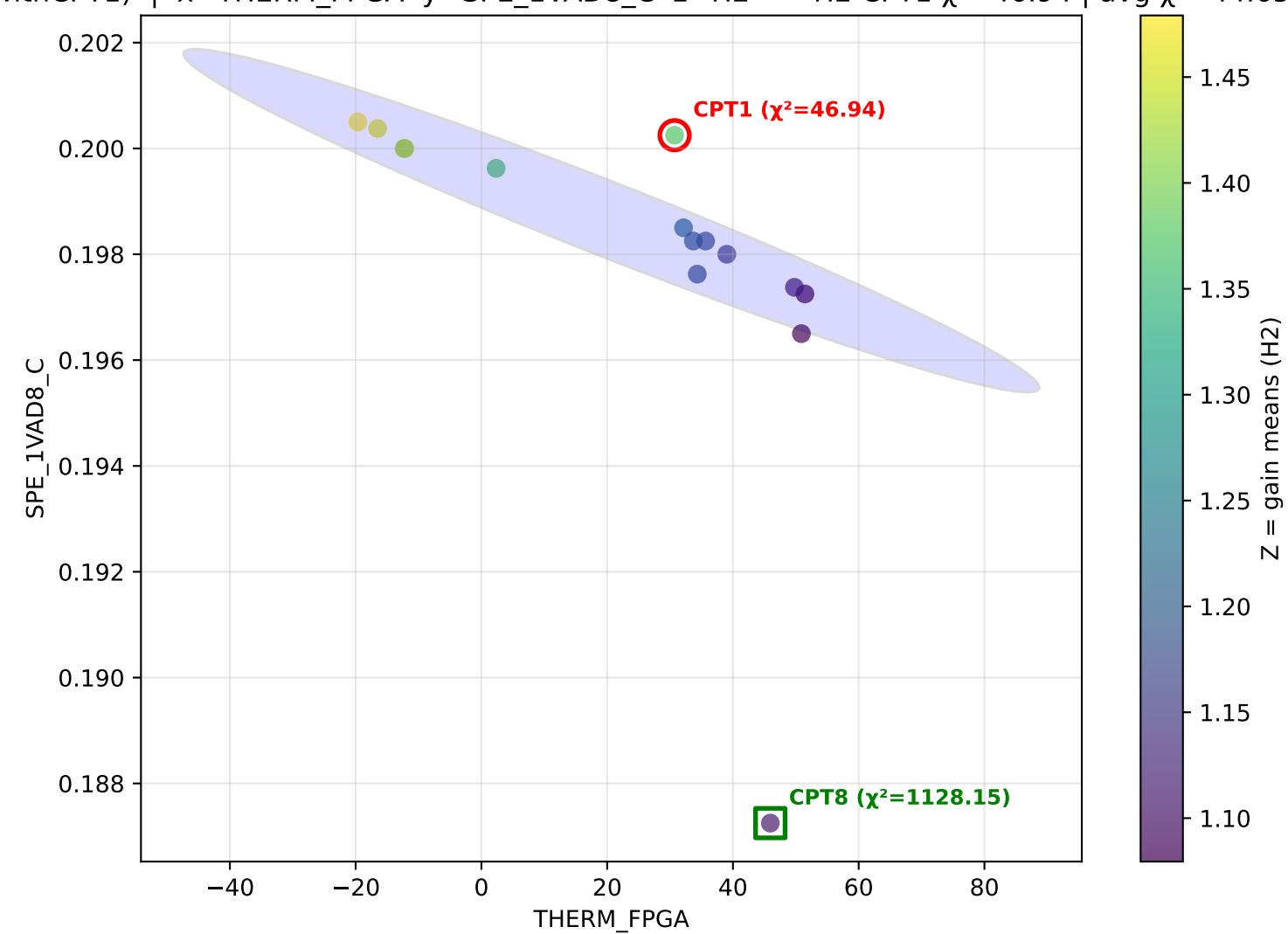
withCPT1) |  $x=\text{THERM\_FPGA}$   $y=\text{SPE\_1VAD8\_C}$   $z=\text{H0}$  —  $\text{H0}$  CPT1  $\chi^2=82.78$  | avg  $\chi^2=44.65$



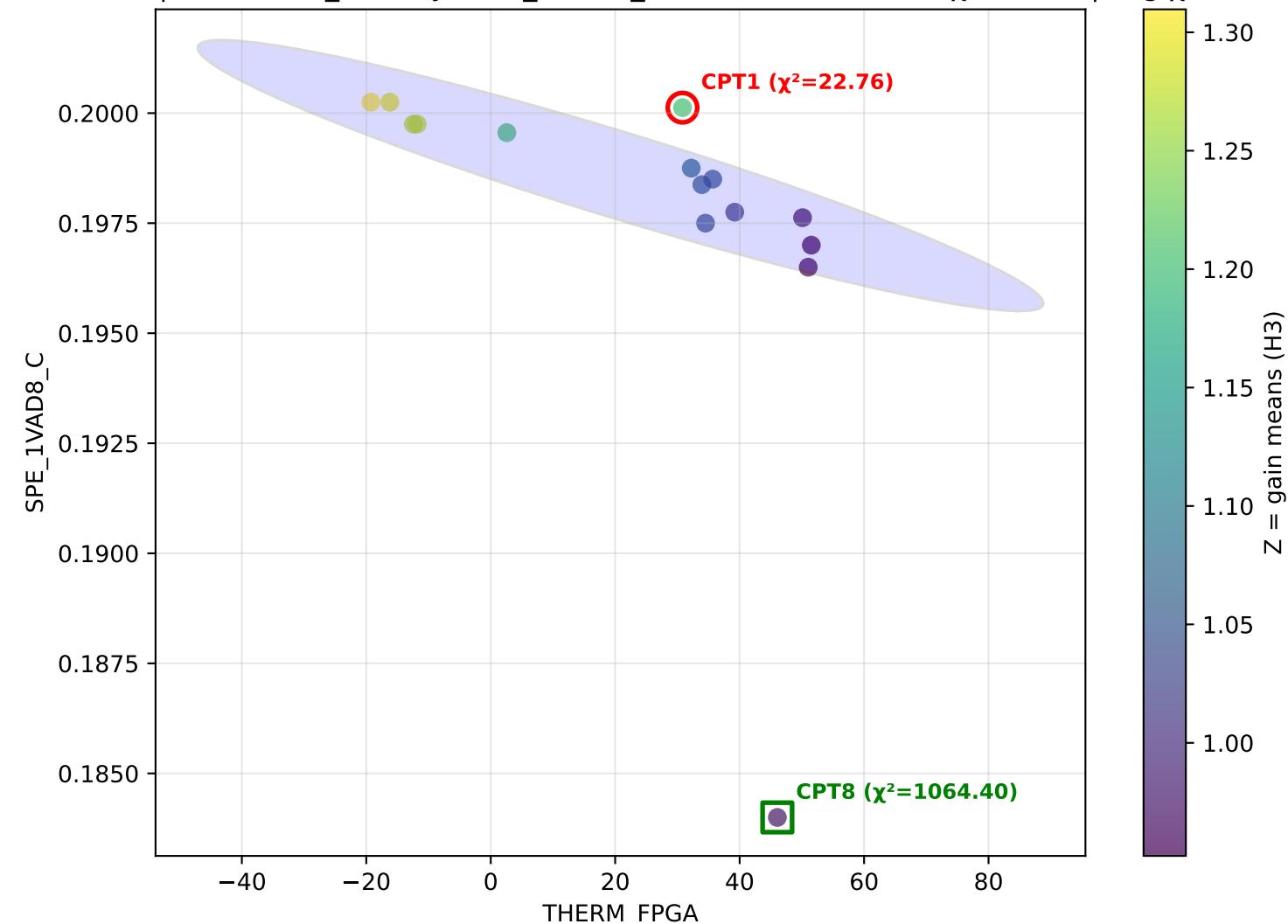
withCPT1) | x=THERM\_FPGA y=SPE\_1VAD8\_C z=H1 — H1 CPT1  $\chi^2=98.39$  | avg  $\chi^2=44.65$



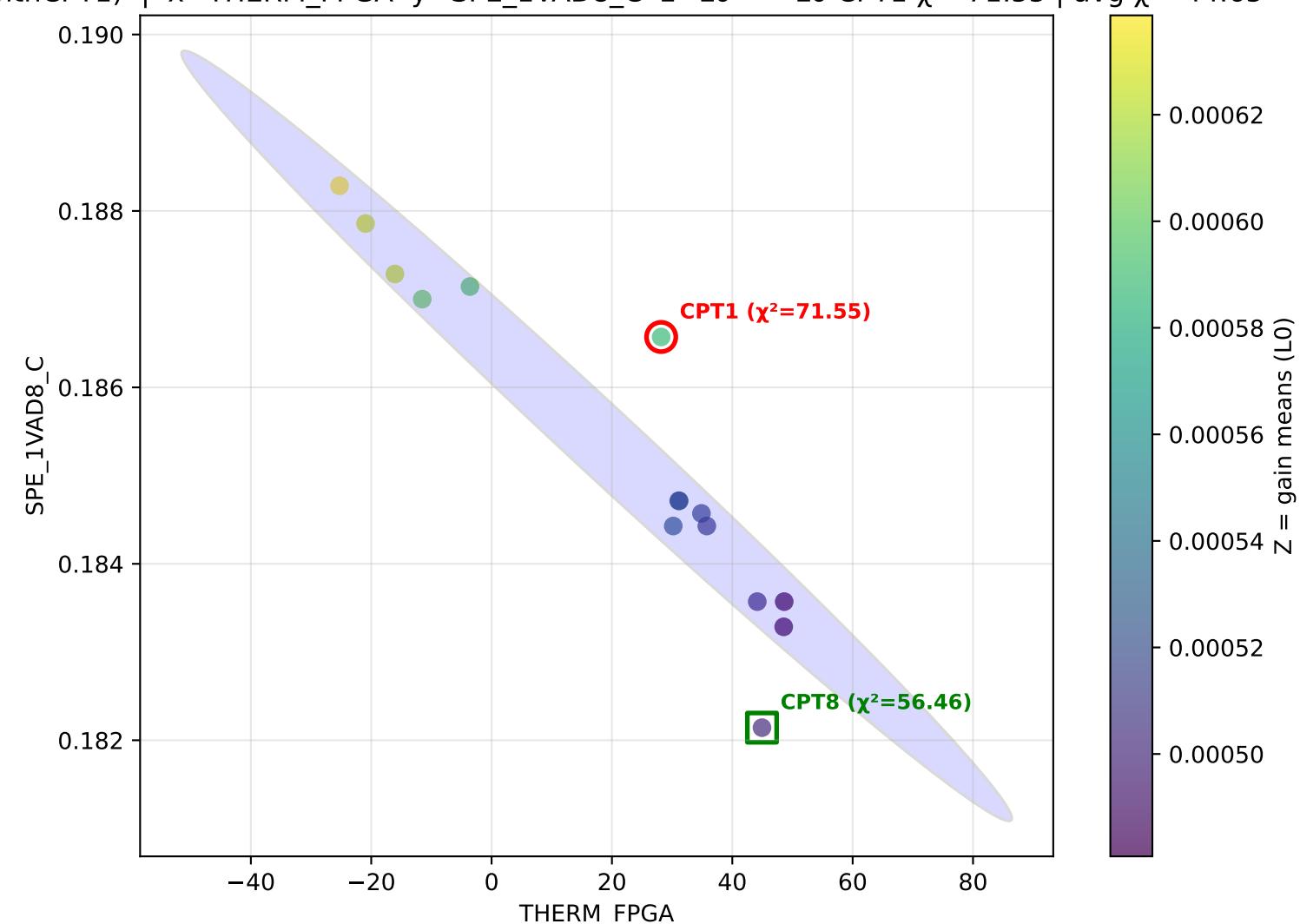
withCPT1) | x=THERM\_FPGA y=SPE\_1VAD8\_C z=H2 — H2 CPT1  $\chi^2=46.94$  | avg  $\chi^2=44.65$



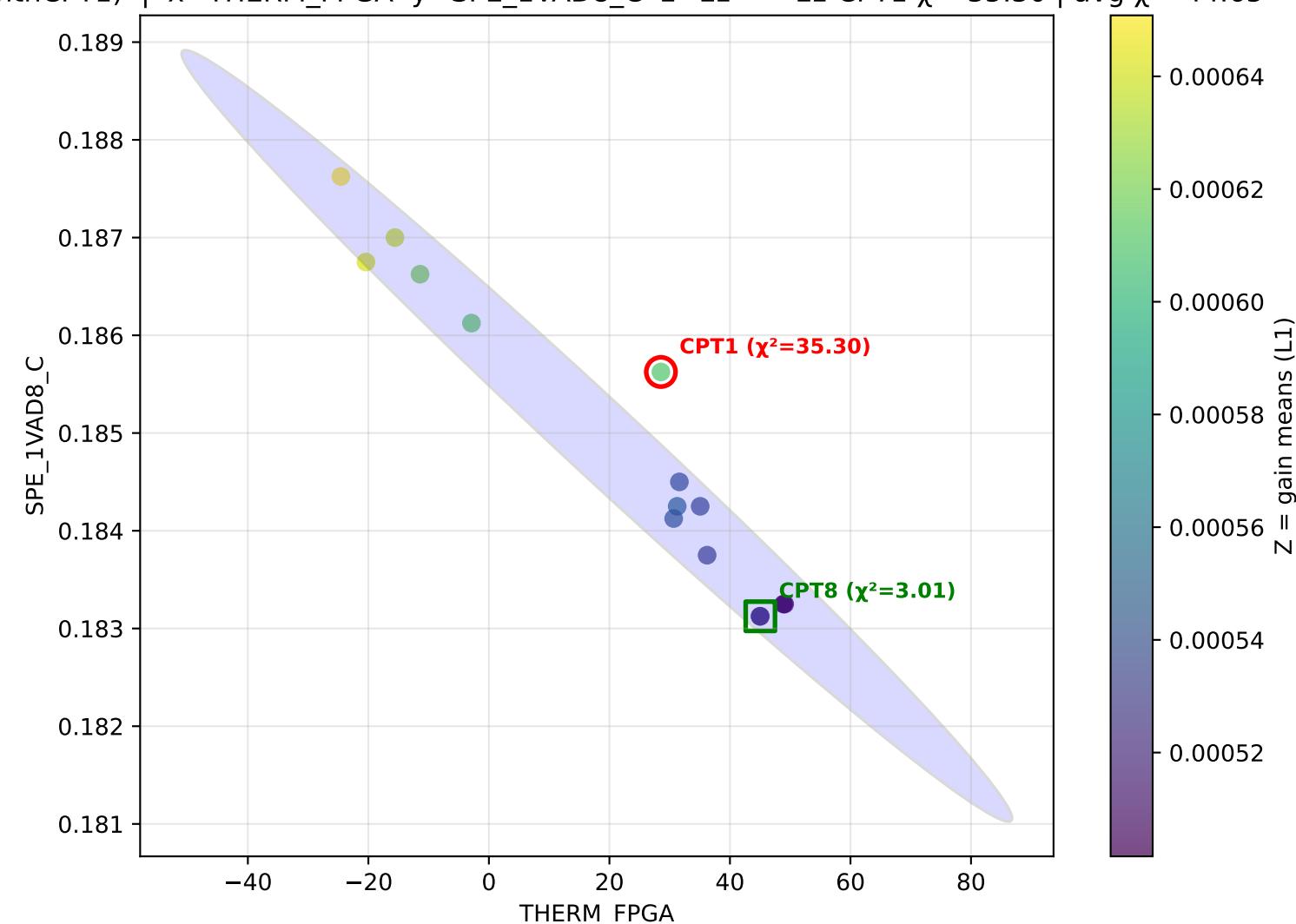
withCPT1) |  $x=\text{THERM\_FPGA}$   $y=\text{SPE\_1VAD8\_C}$   $z=\text{H3}$  — H3 CPT1  $\chi^2=22.76$  | avg  $\chi^2=44.65$



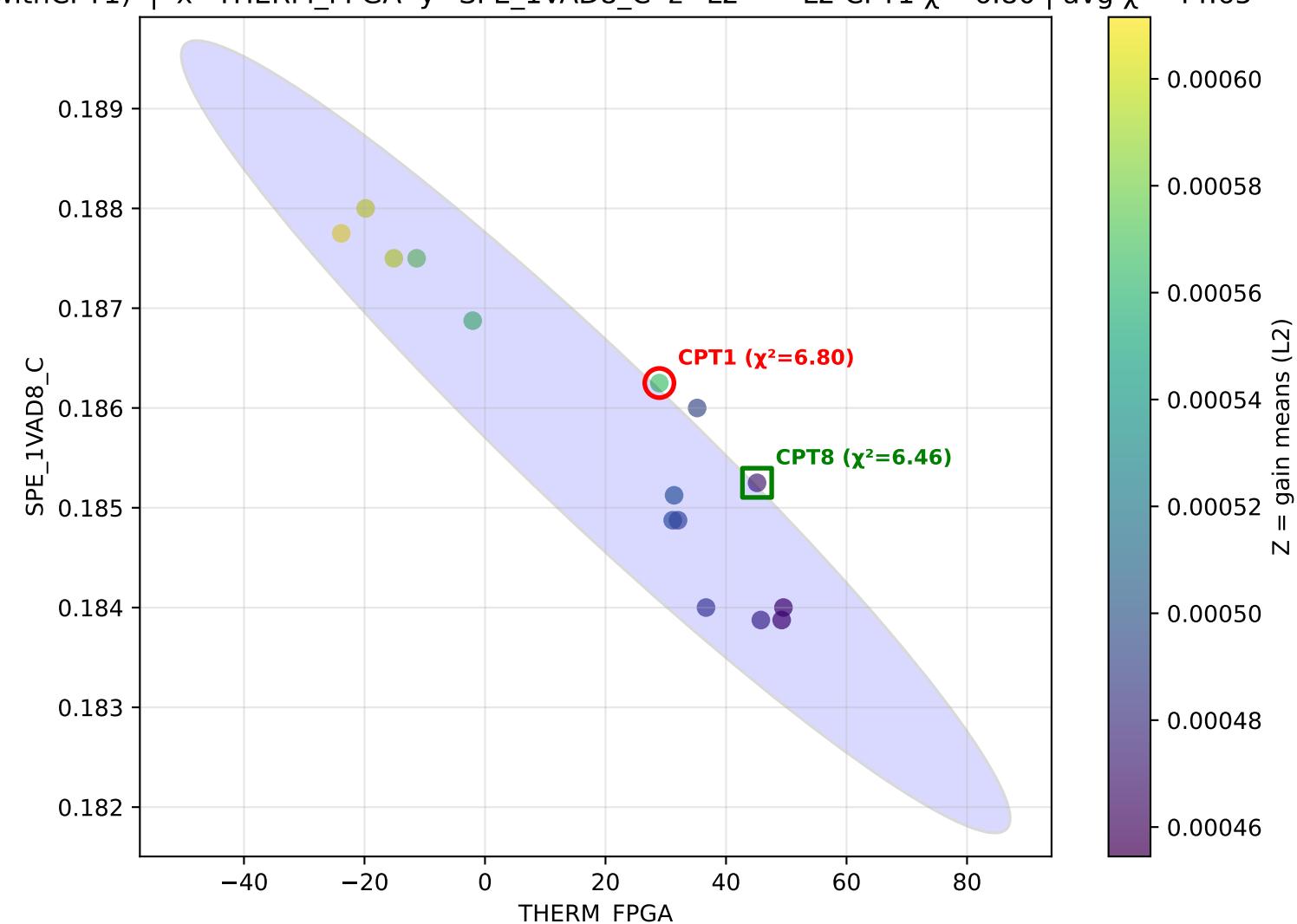
withCPT1) | x=THERM\_FPGA y=SPE\_1VAD8\_C z=L0 — L0 CPT1  $\chi^2=71.55$  | avg  $\chi^2=44.65$



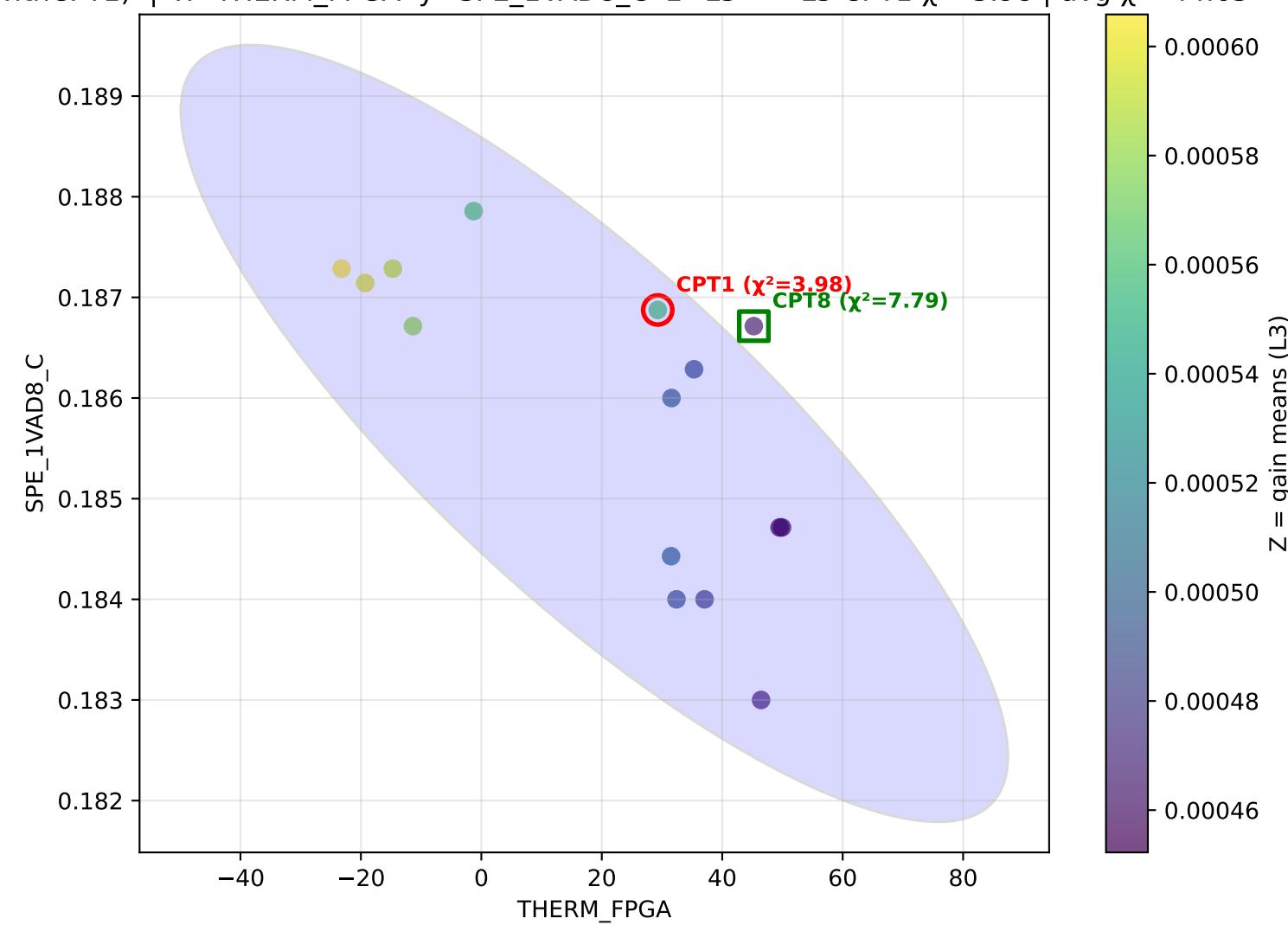
withCPT1) | x=THERM\_FPGA y=SPE\_1VAD8\_C z=L1 — L1 CPT1  $\chi^2=35.30$  | avg  $\chi^2=44.65$



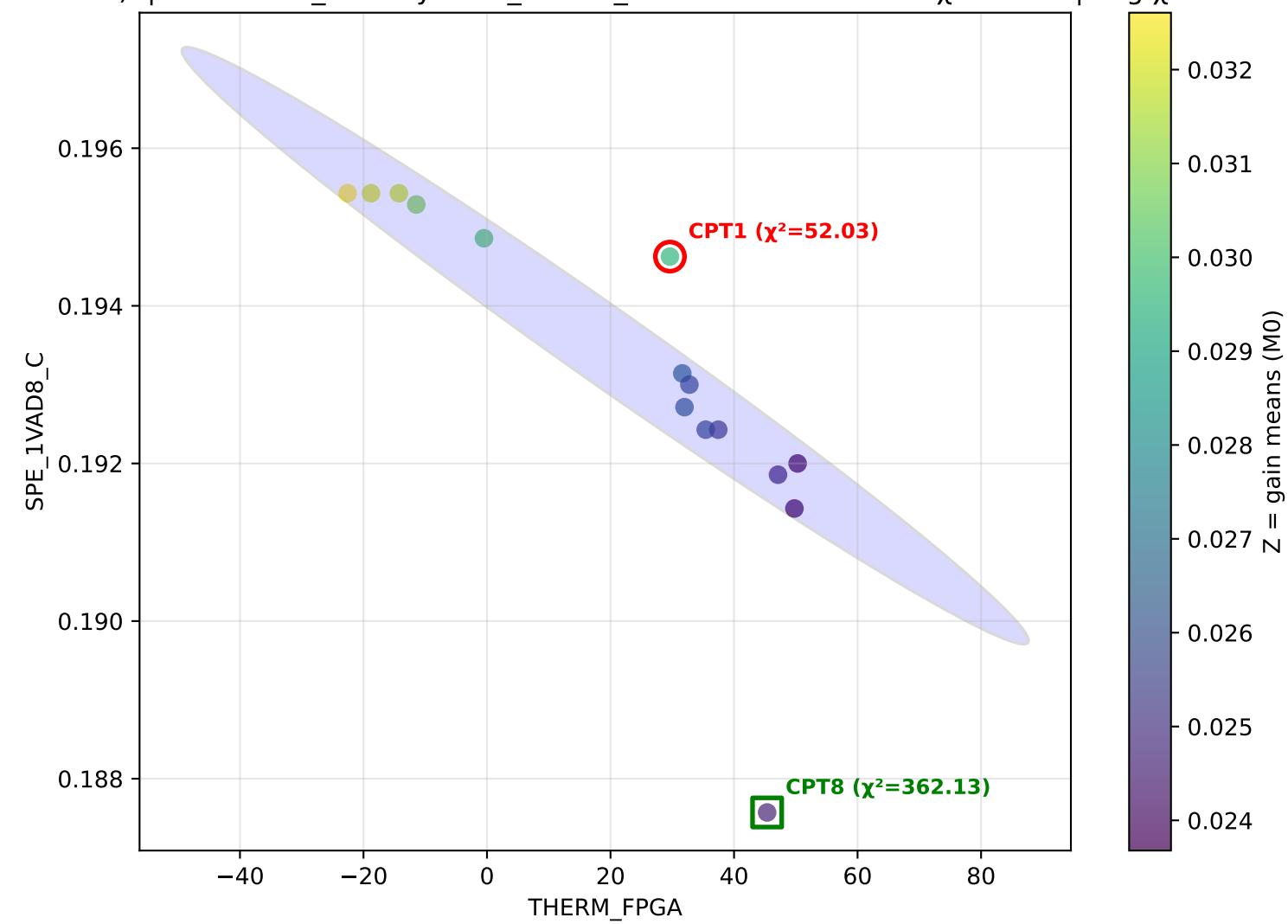
withCPT1) | x=THERM\_FPGA y=SPE\_1VAD8\_C z=L2 — L2 CPT1  $\chi^2=6.80$  | avg  $\chi^2=44.65$



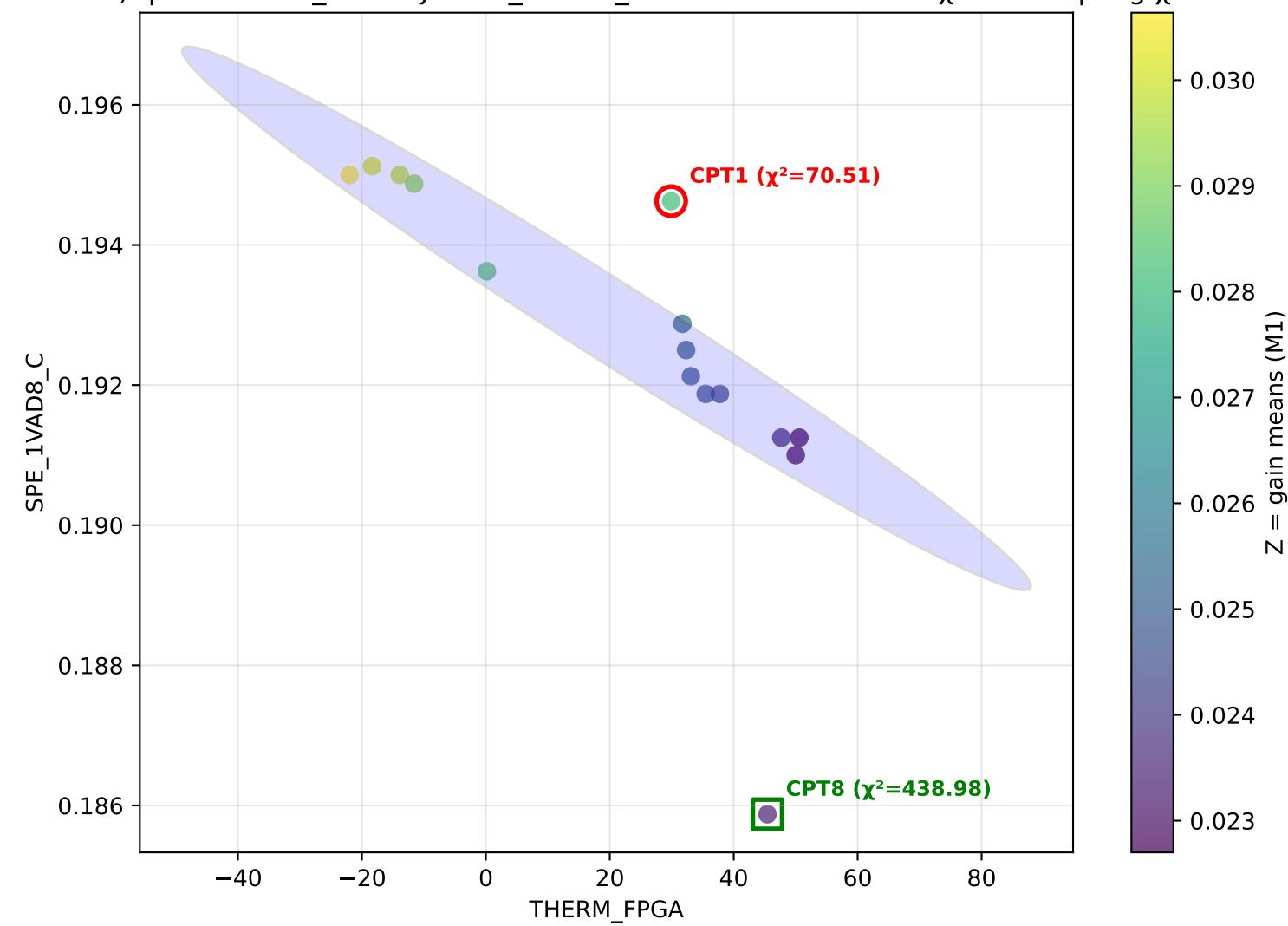
(withCPT1) | x=THERM FPGA y=SPE 1VAD8 C z=L3 — L3 CPT1  $\chi^2=3.98$  | avg  $\chi^2=44.65$



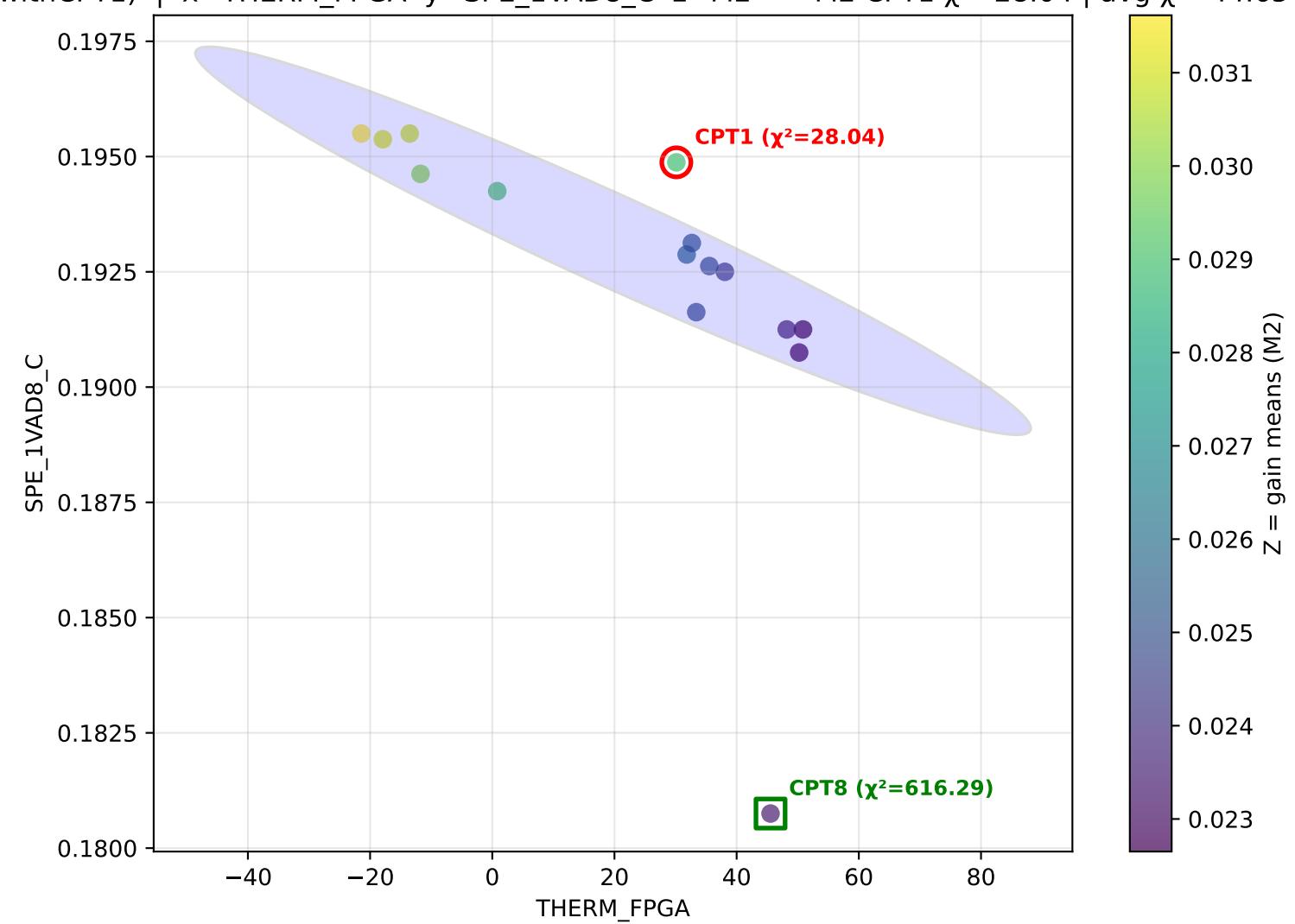
withCPT1) | x=THERM\_FPGA y=SPE\_1VAD8\_C z=M0 — M0 CPT1  $\chi^2=52.03$  | avg  $\chi^2=44.65$



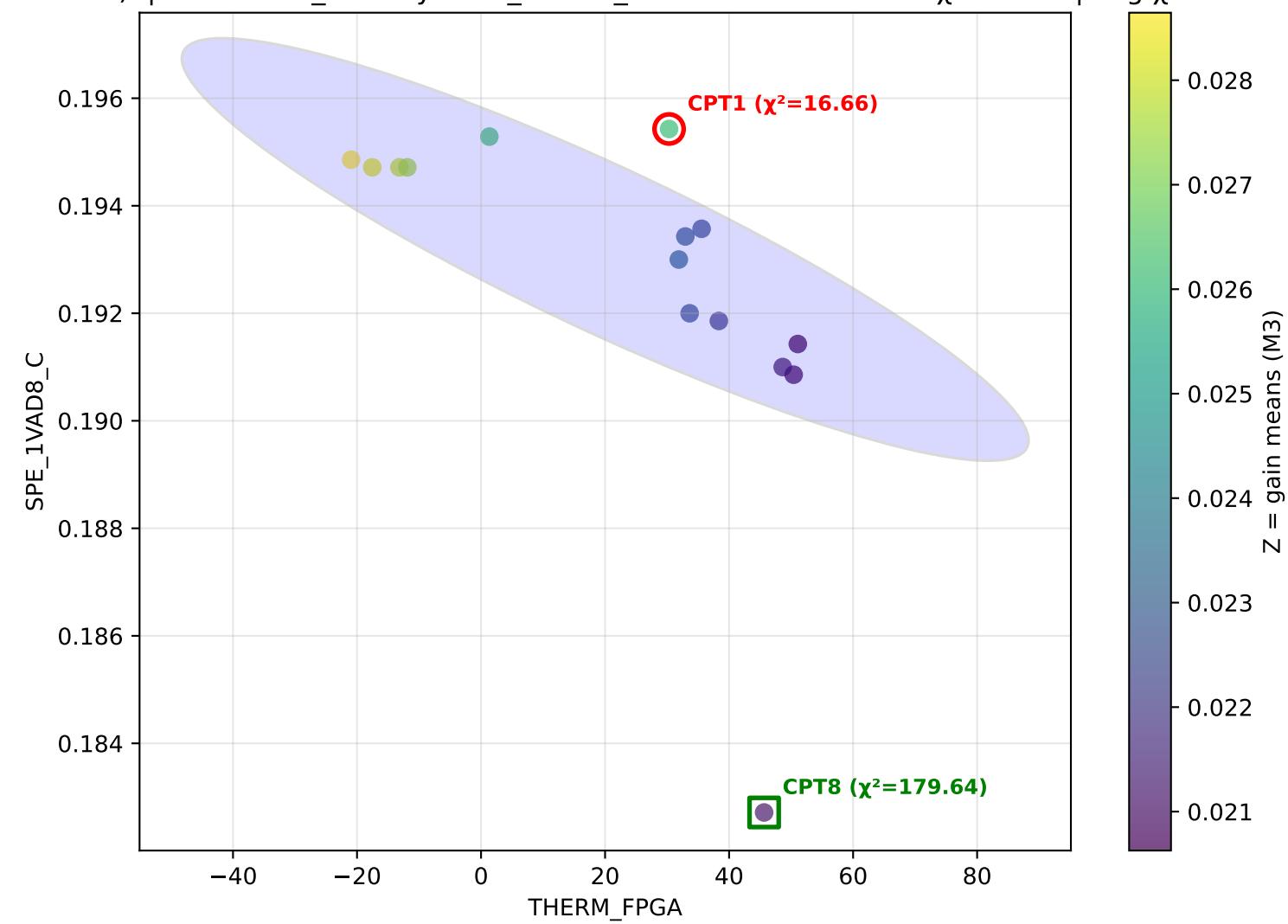
withCPT1) | x=THERM\_FPGA y=SPE\_1VAD8\_C z=M1 — M1 CPT1  $\chi^2=70.51$  | avg  $\chi^2=44.65$



withCPT1) |  $x=\text{THERM\_FPGA}$   $y=\text{SPE\_1VAD8\_C}$   $z=\text{M2}$  — M2 CPT1  $\chi^2=28.04$  | avg  $\chi^2=44.65$



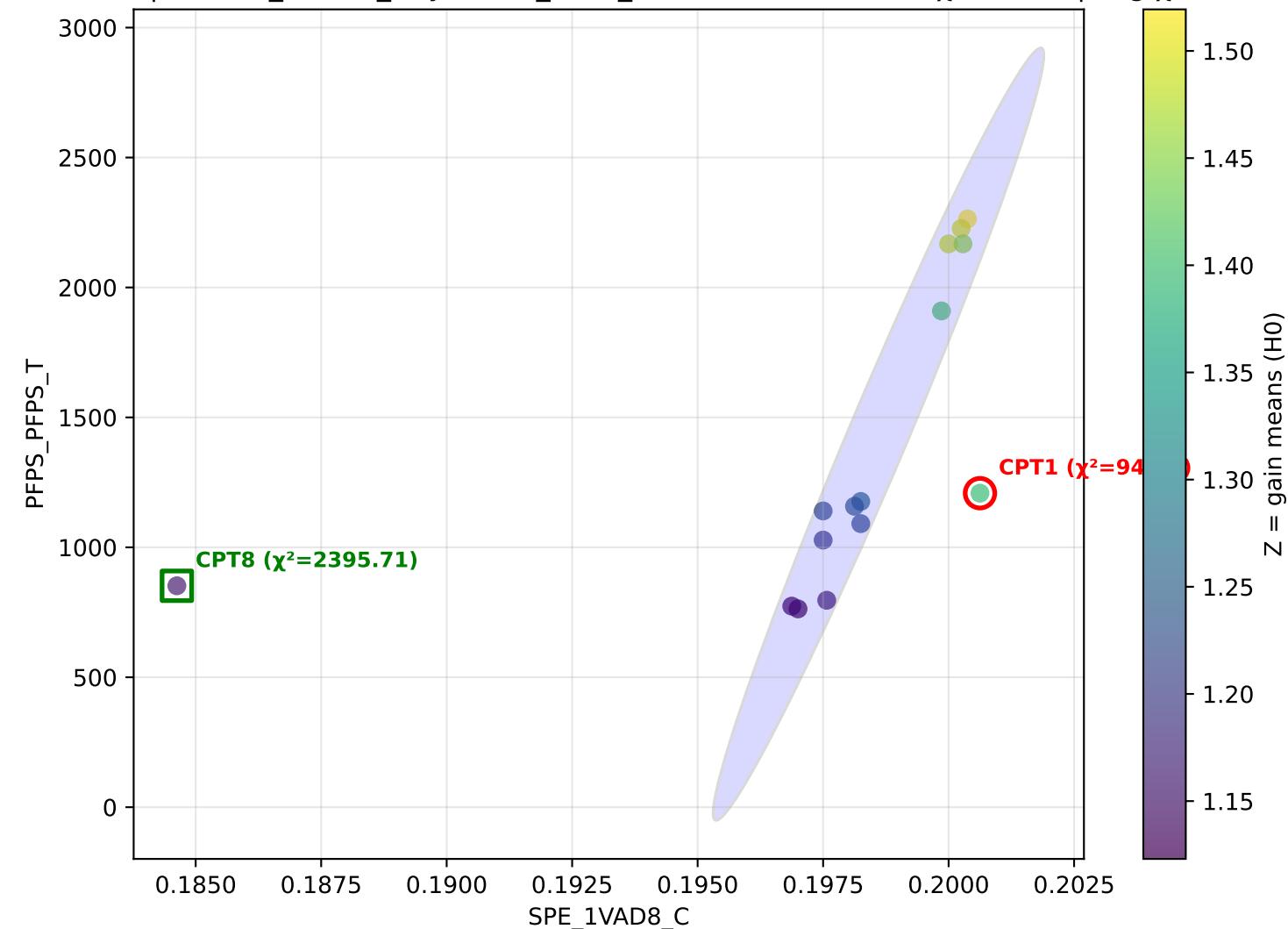
withCPT1) | x=THERM\_FPGA y=SPE\_1VAD8\_C z=M3 — M3 CPT1  $\chi^2=16.66$  | avg  $\chi^2=44.65$



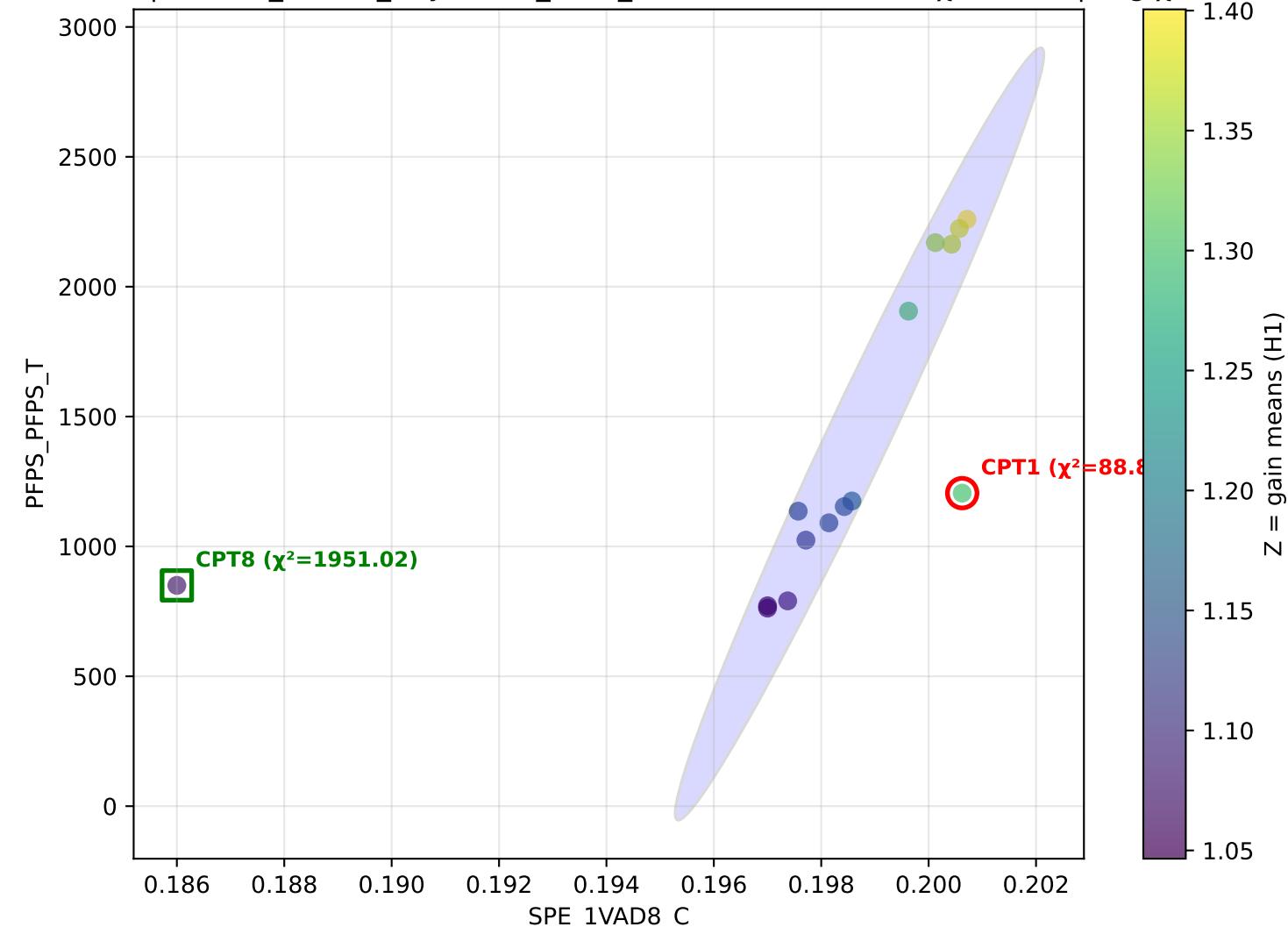
Pair: SPE\_1VAD8\_C vs PFPS\_PFPS\_T

Average  $\chi^2$ (CPT1) across settings: 44.49

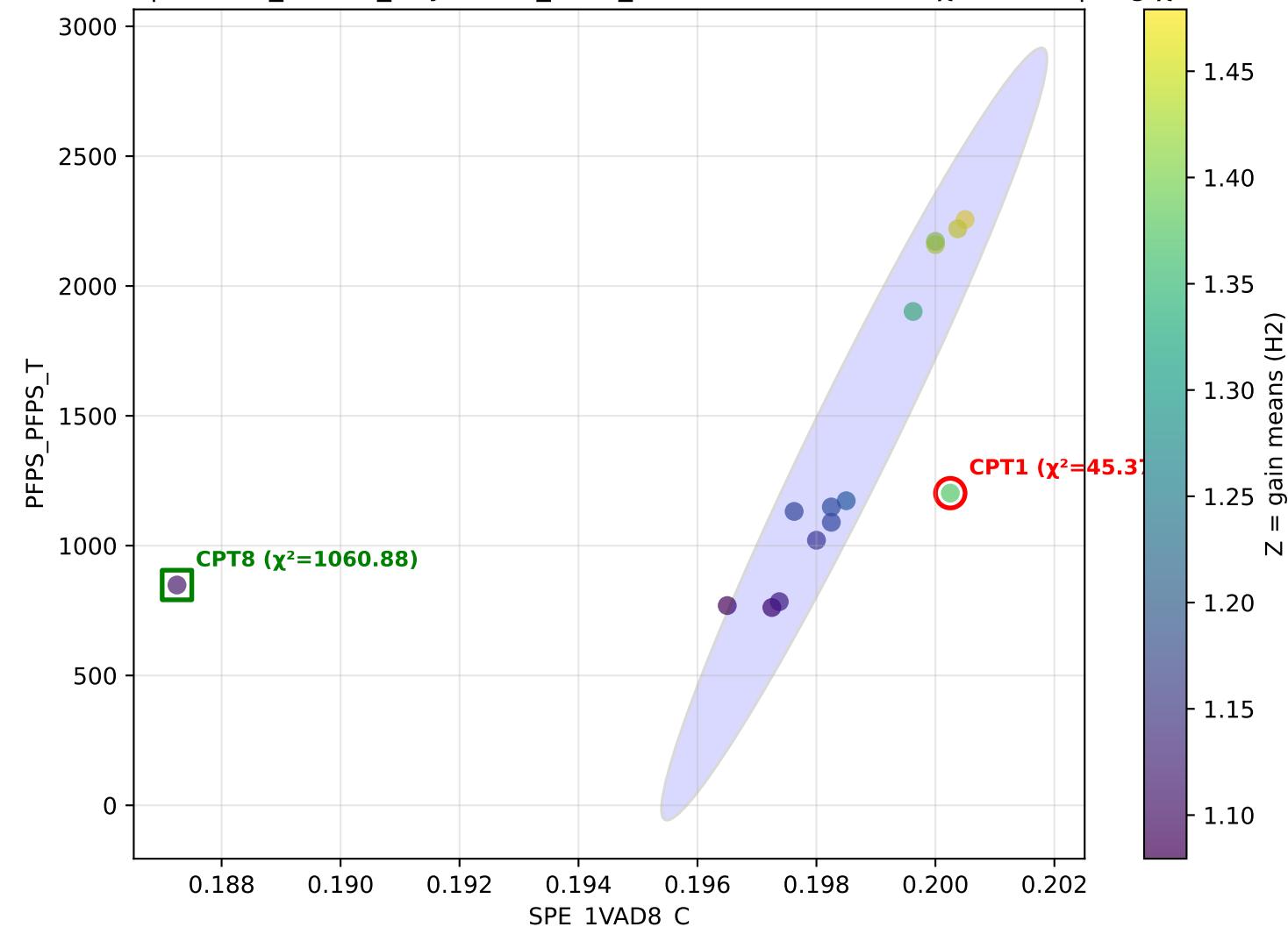
withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_PFPS\_T}$   $z=\text{H0}$  — H0 CPT1  $\chi^2=94.01$  | avg  $\chi^2=44.49$



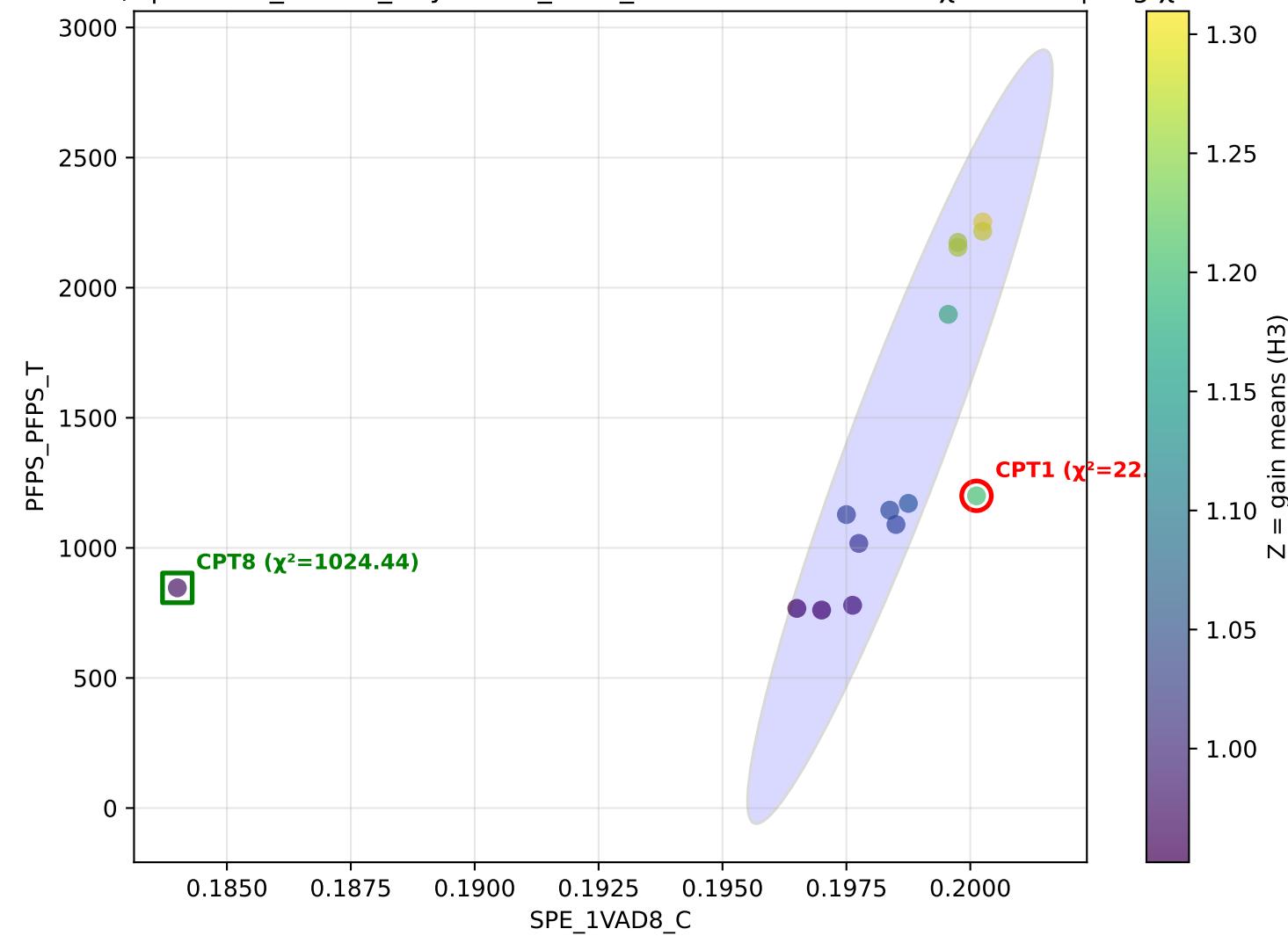
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PFPS\_T z=H1 — H1 CPT1  $\chi^2=88.82$  | avg  $\chi^2=44.49$

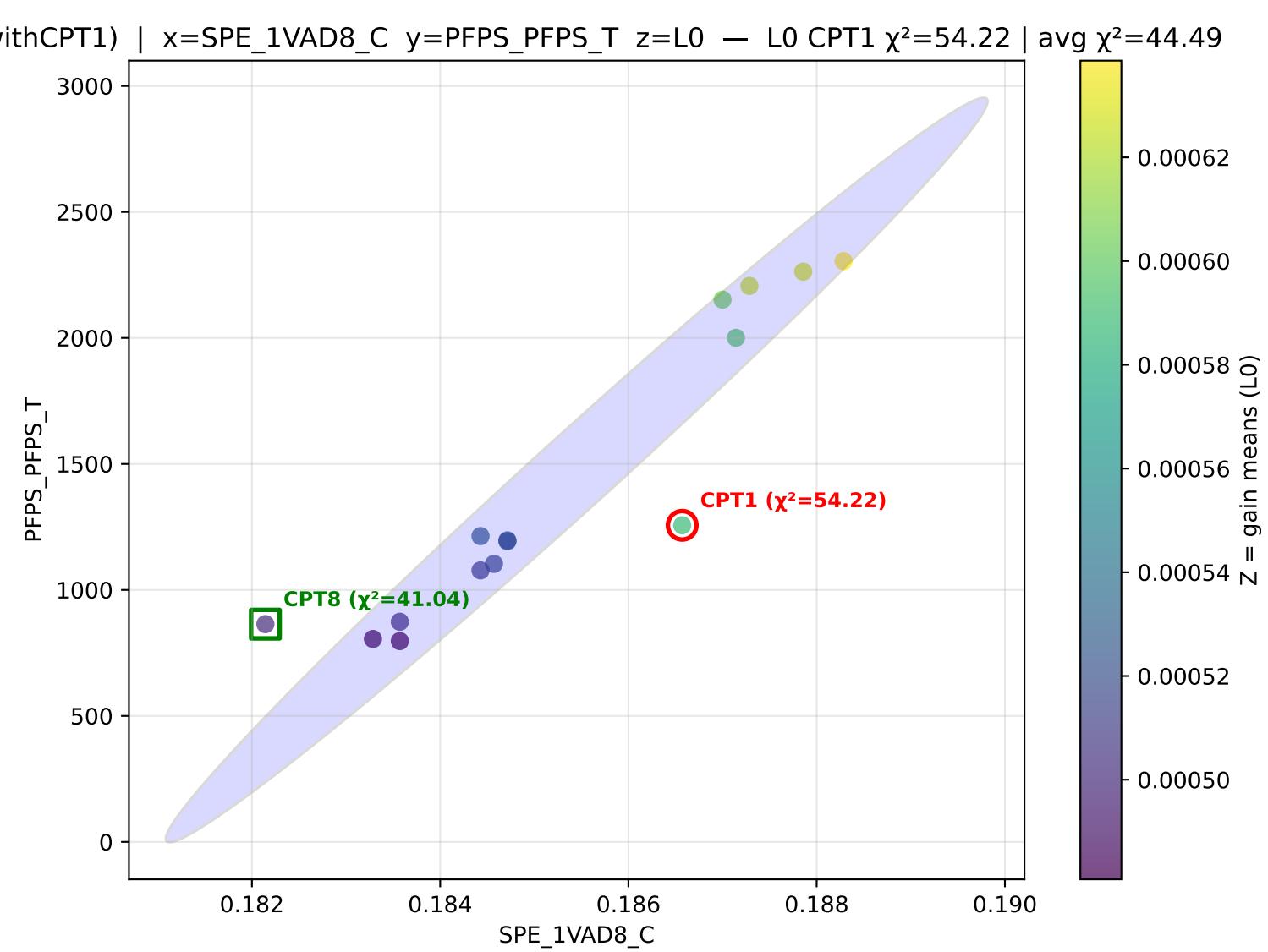


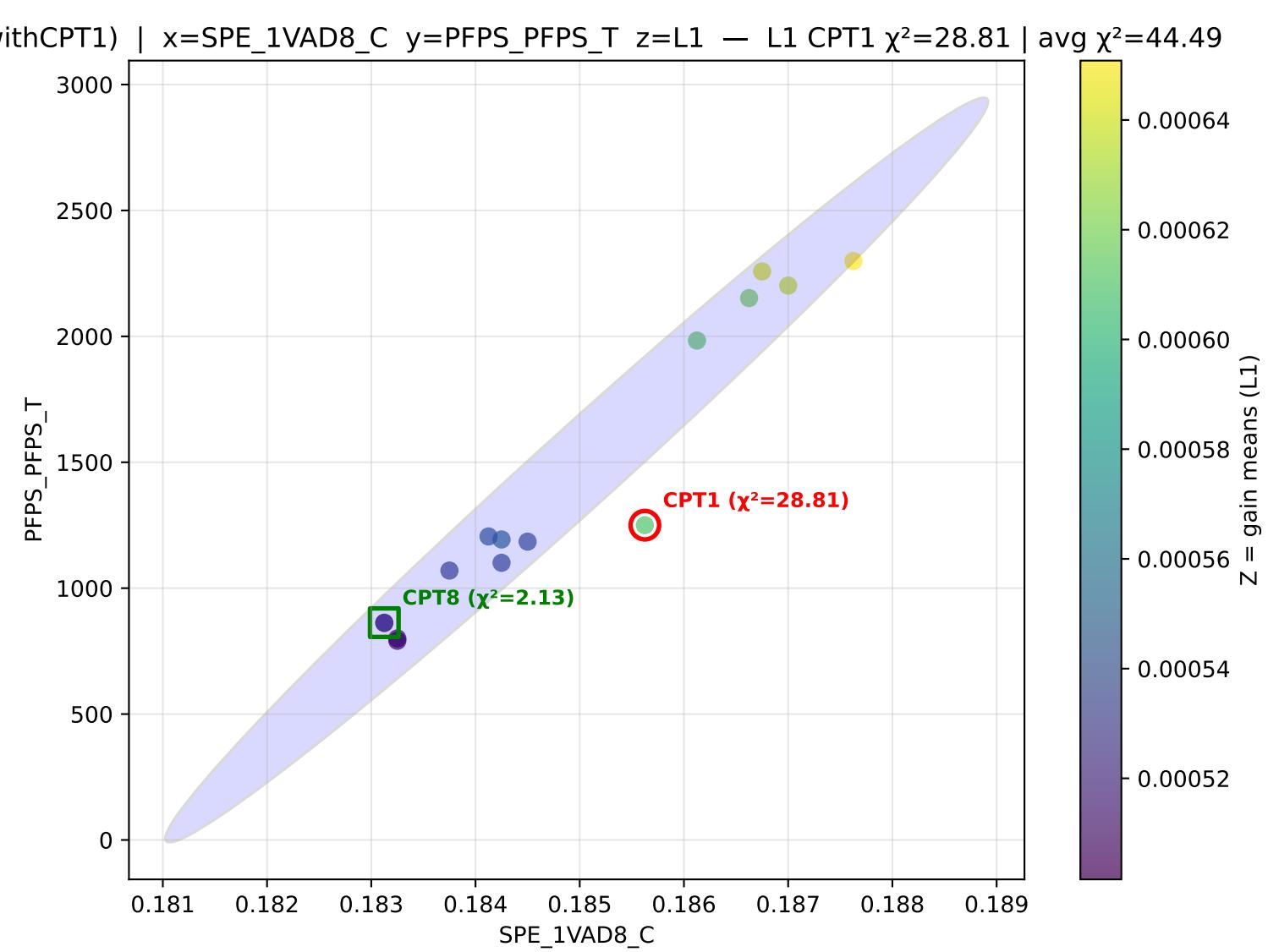
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PFPS\_T z=H2 — H2 CPT1  $\chi^2=45.37$  | avg  $\chi^2=44.49$

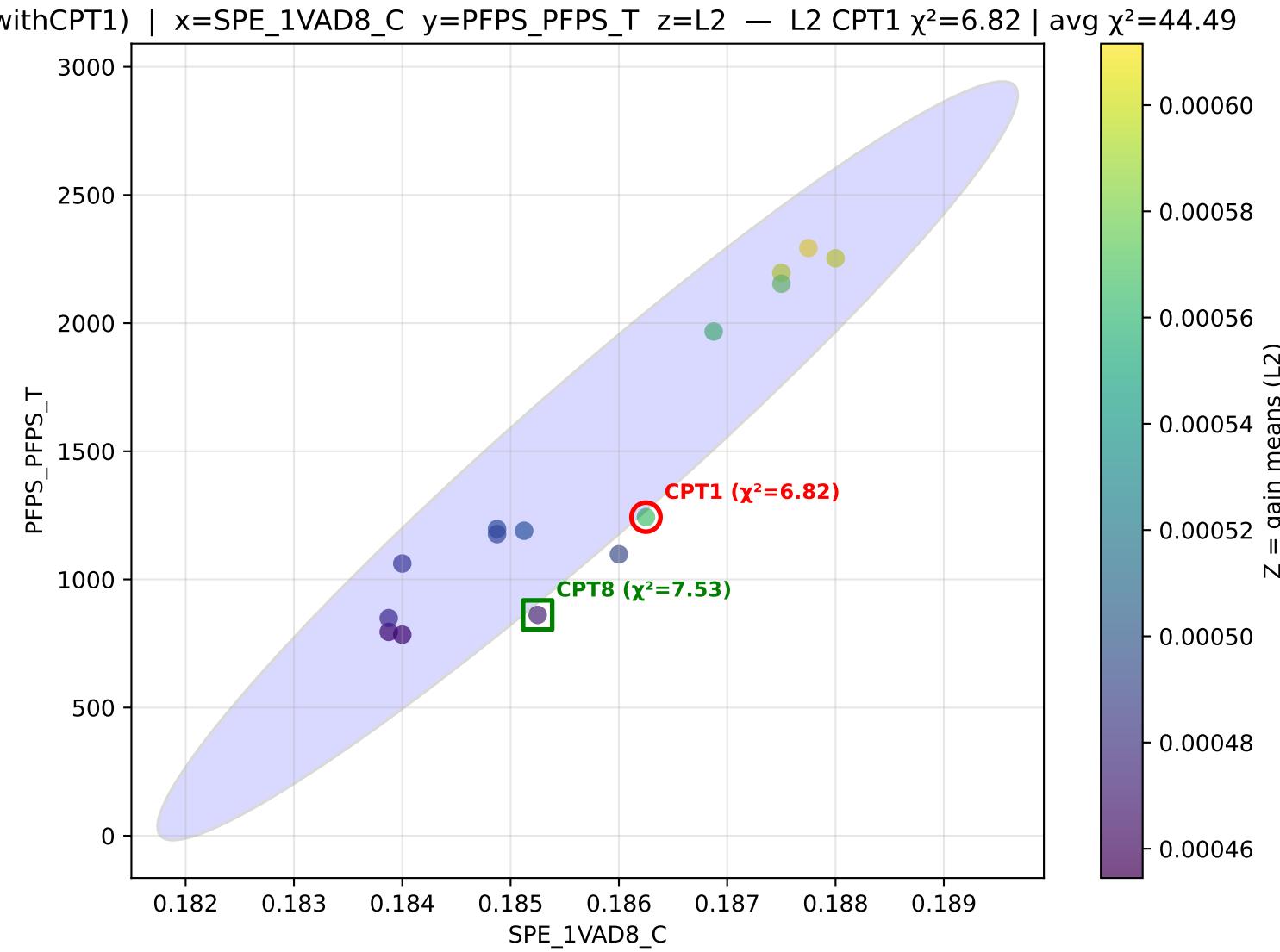


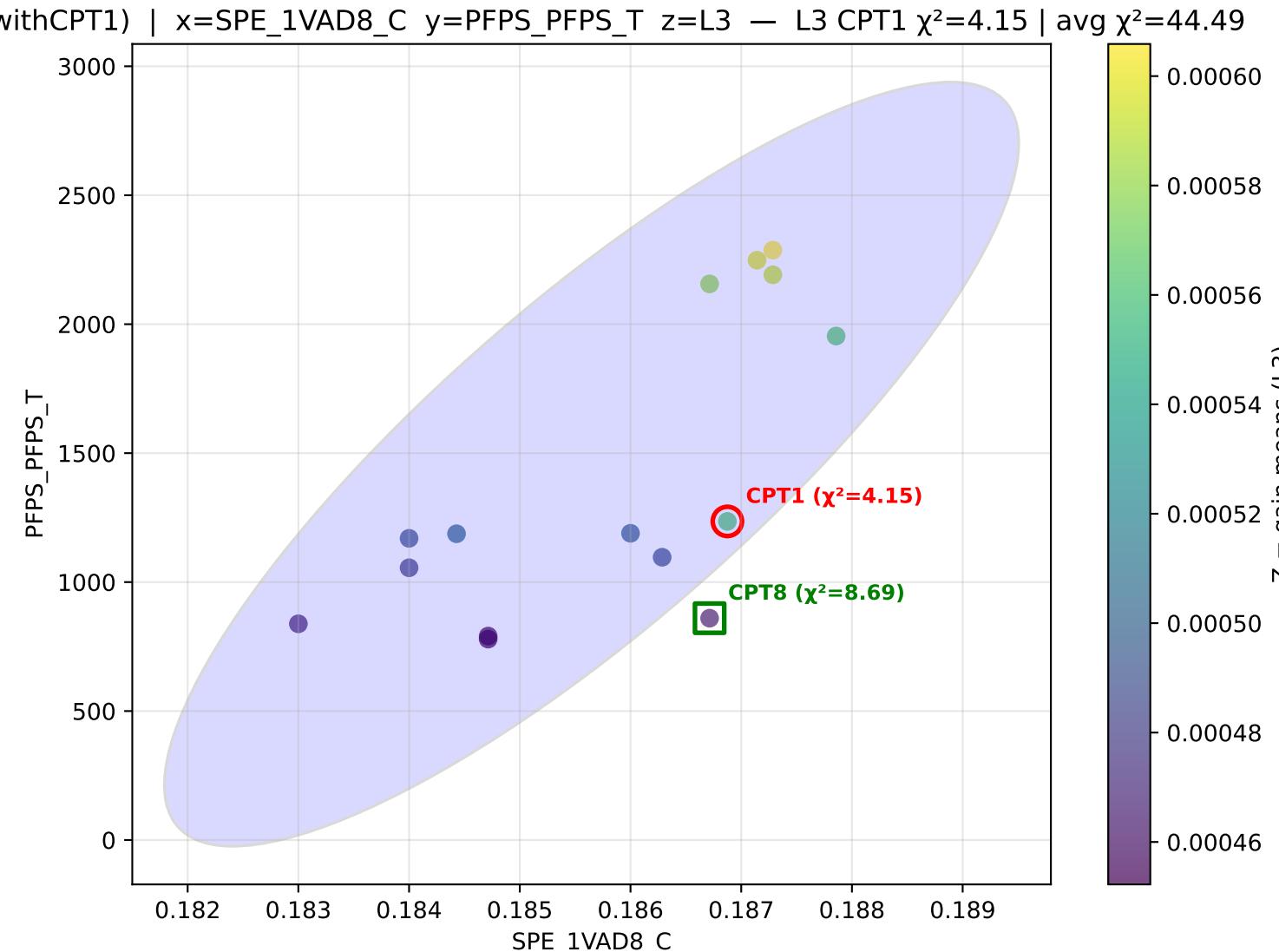
withCPT1) | x=SPE 1VAD8 C y=PFPS PFPS T z=H3 — H3 CPT1  $\chi^2=22.47$  | avg  $\chi^2=44.49$



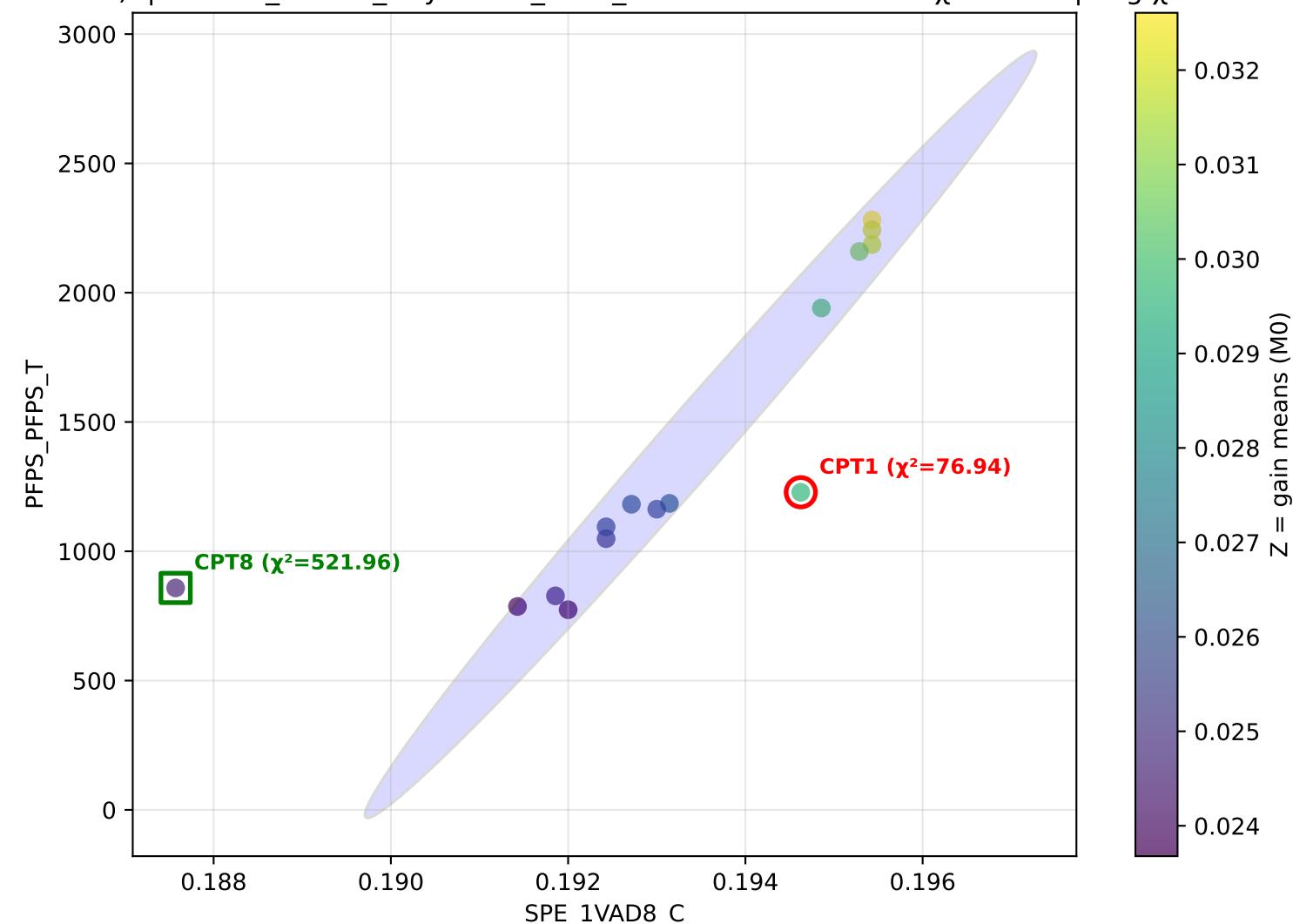




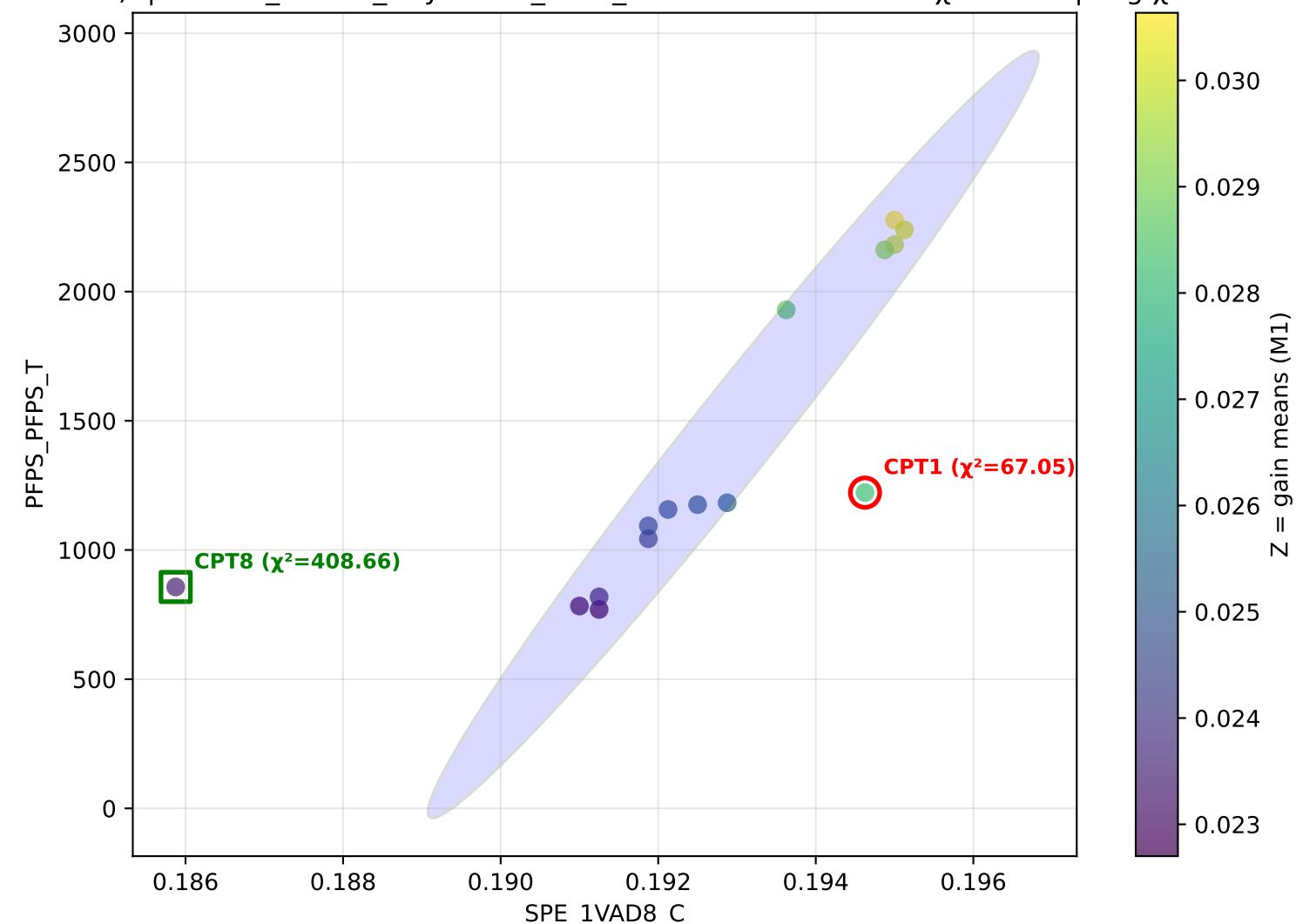




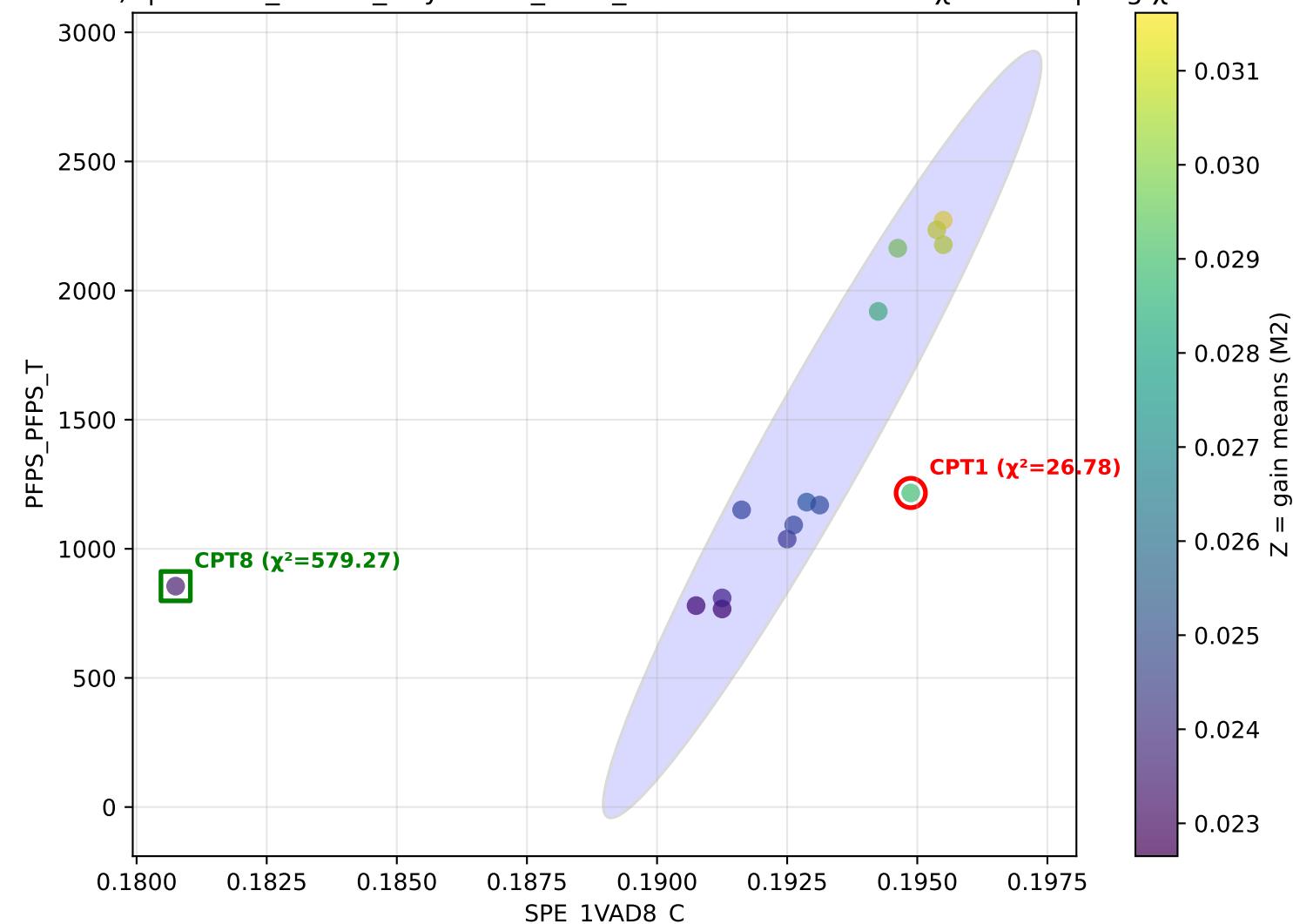
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PFPS\_T z=M0 — M0 CPT1  $\chi^2=76.94$  | avg  $\chi^2=44.49$



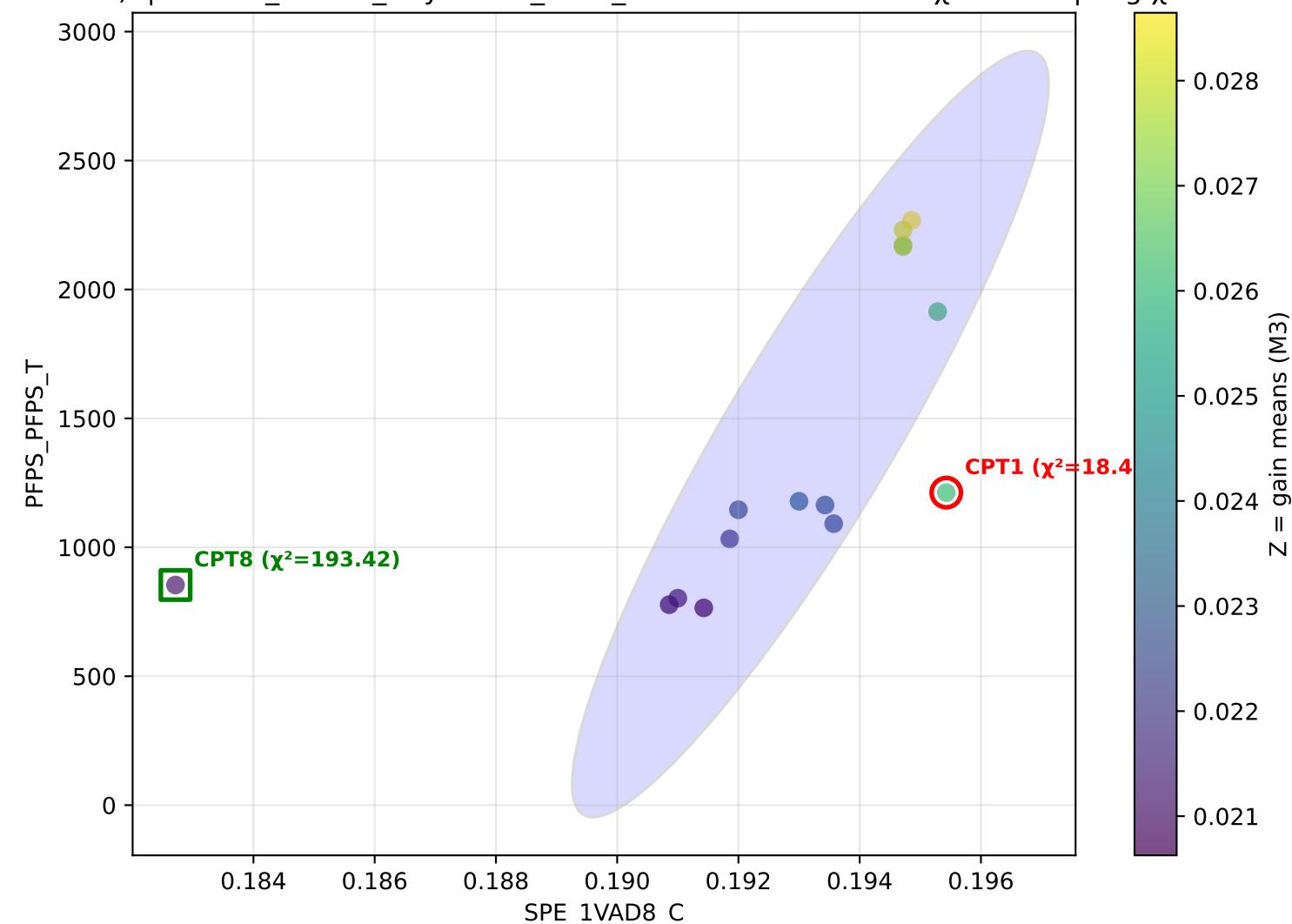
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PFPS\_T z=M1 — M1 CPT1  $\chi^2=67.05$  | avg  $\chi^2=44.49$



withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PFPS\_T z=M2 — M2 CPT1  $\chi^2=26.78$  | avg  $\chi^2=44.49$

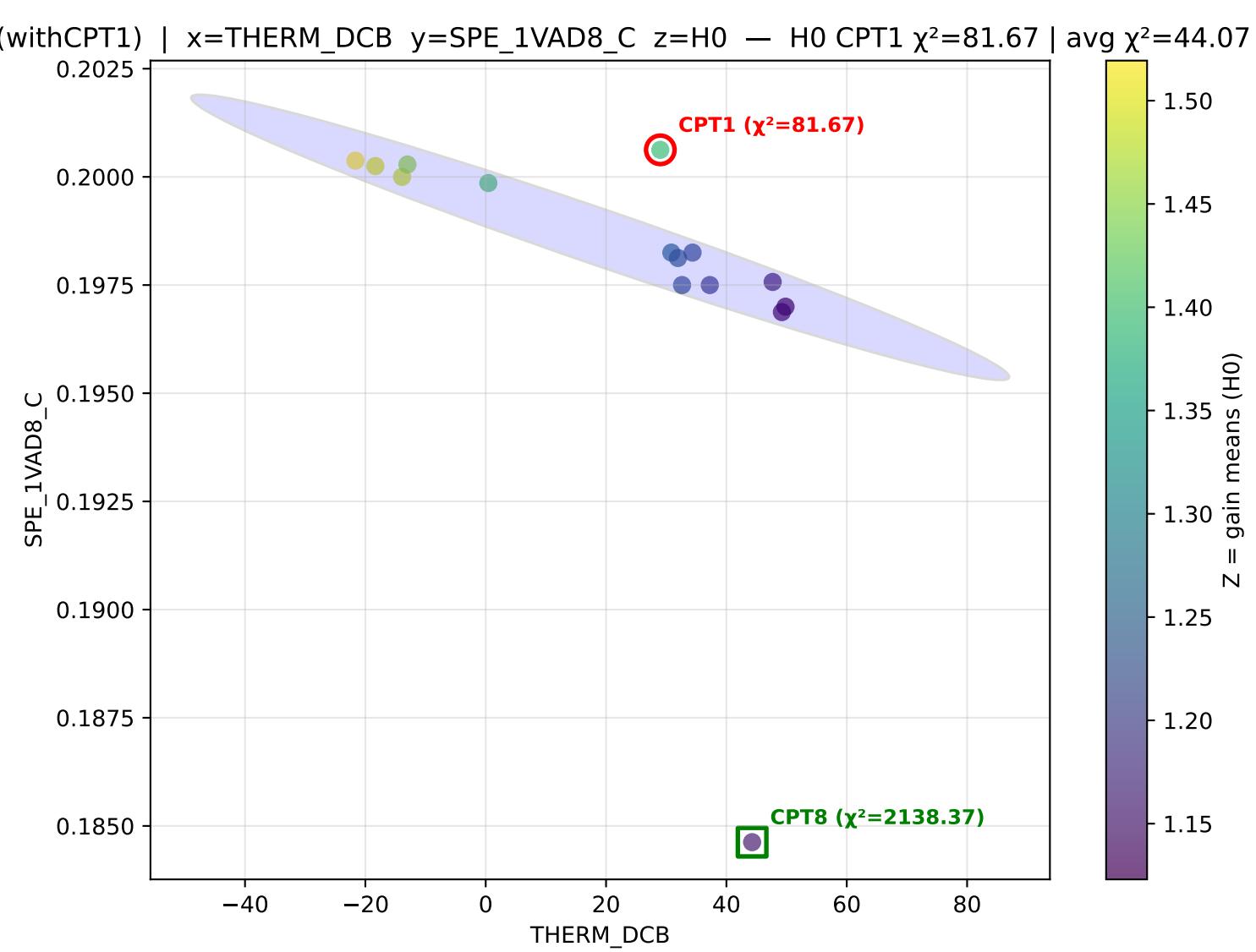


withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PFPS\_T z=M3 — M3 CPT1  $\chi^2=18.40$  | avg  $\chi^2=44.49$

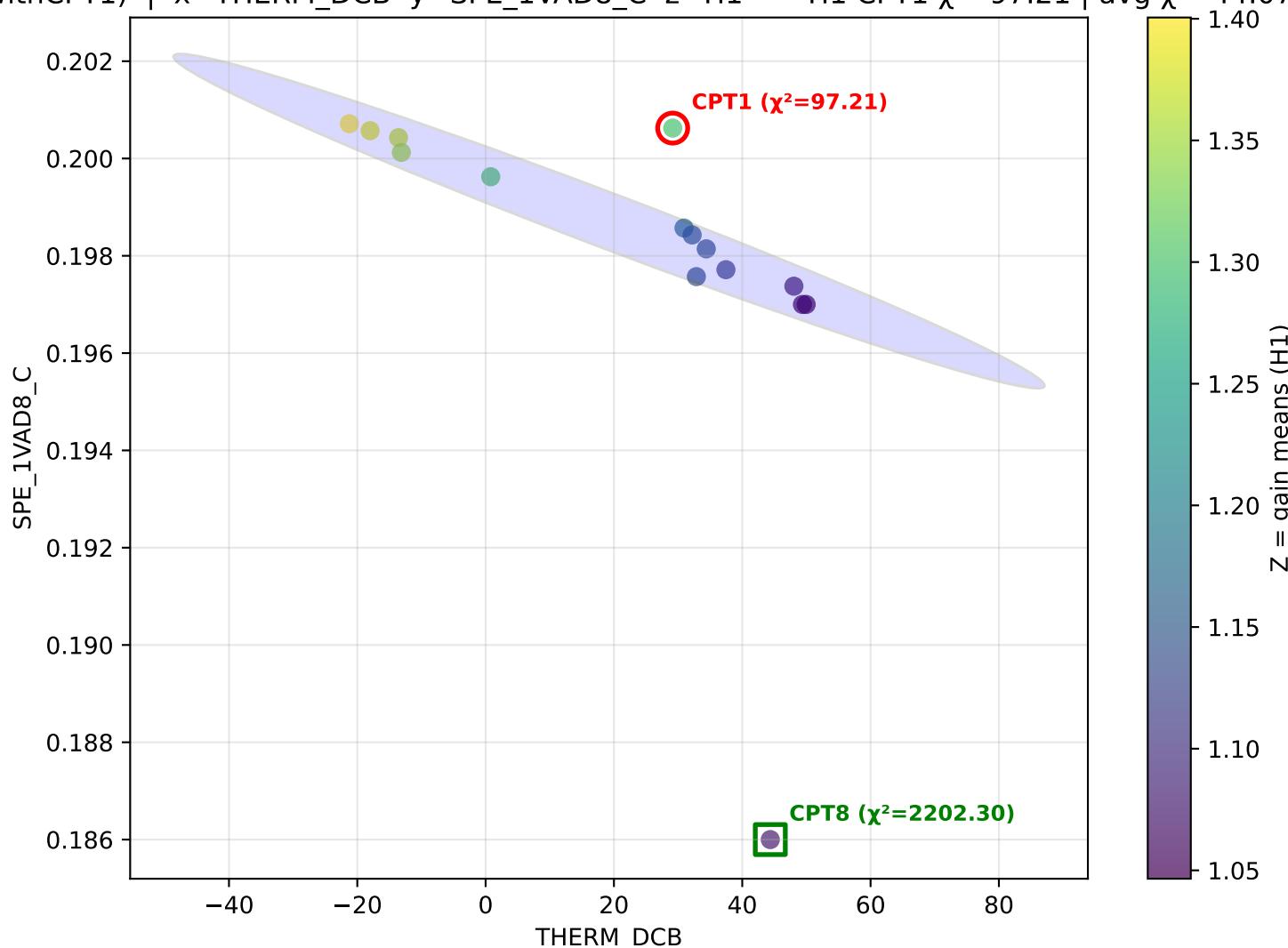


Pair: THERM\_DCB vs SPE\_1VAD8\_C

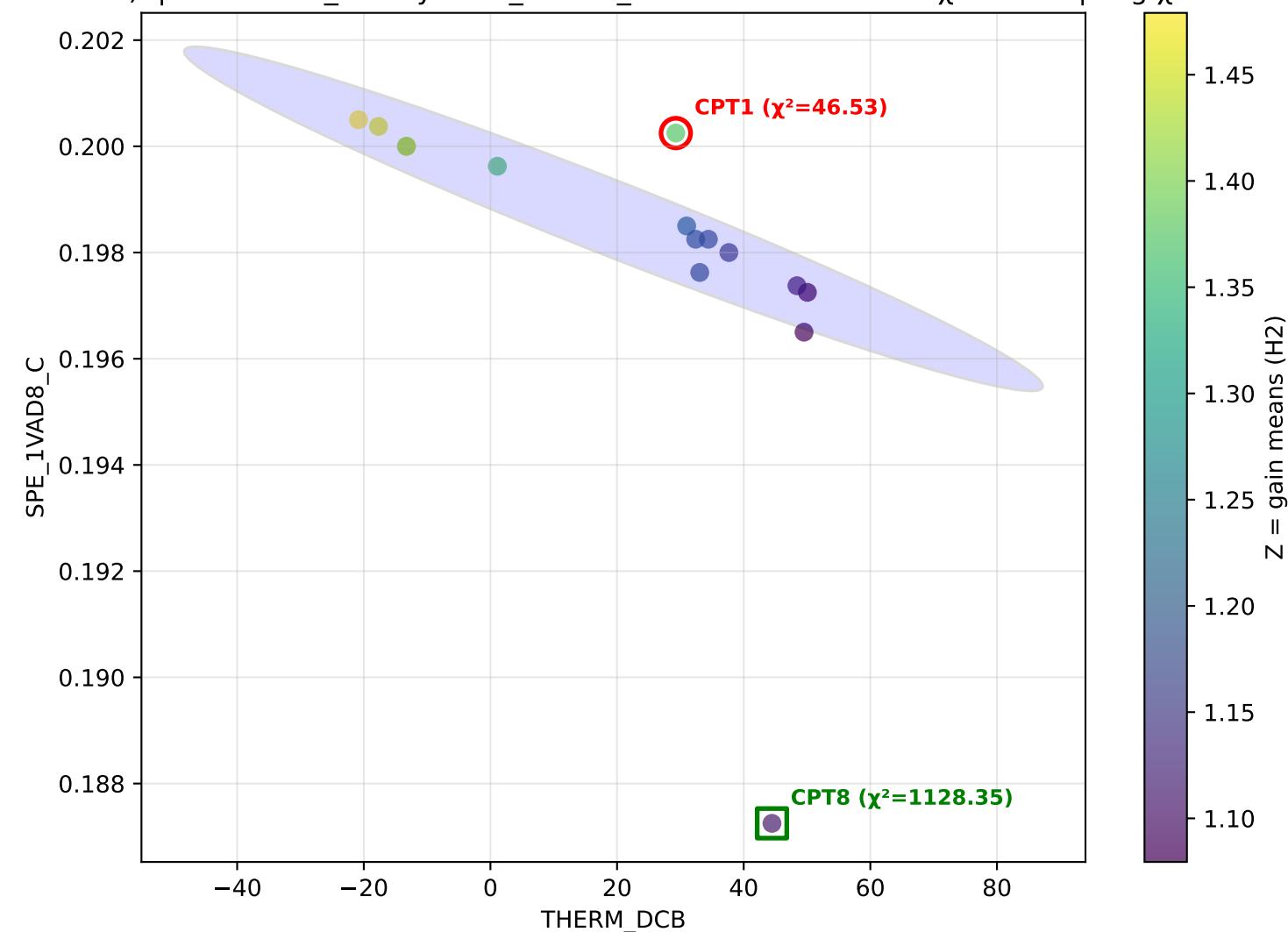
Average  $\chi^2$ (CPT1) across settings: 44.07



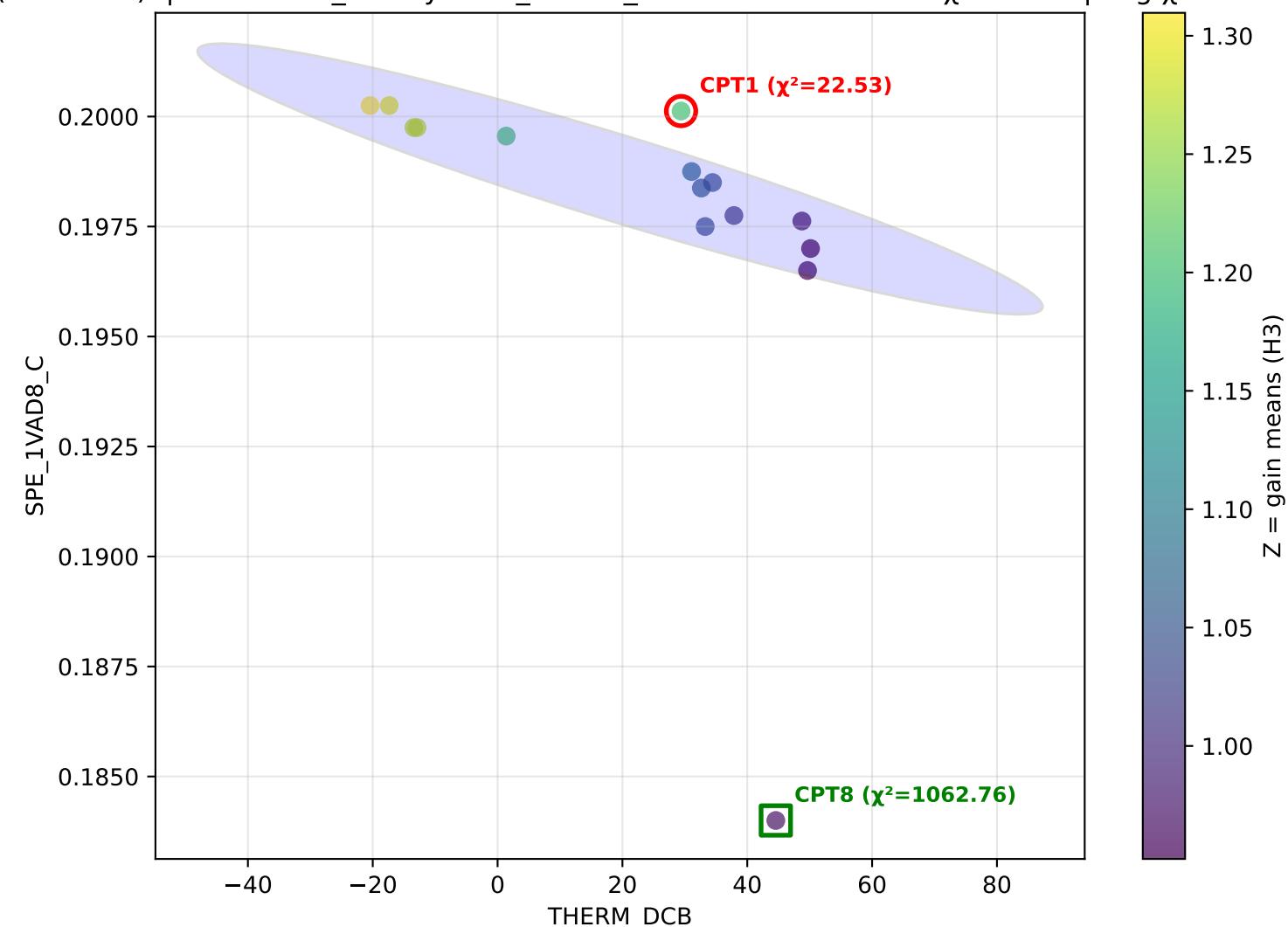
withCPT1) | x=THERM DCB y=SPE 1VAD8 C z=H1 = H1 CPT1  $\chi^2=97.21$  | avg  $\chi^2=44.07$



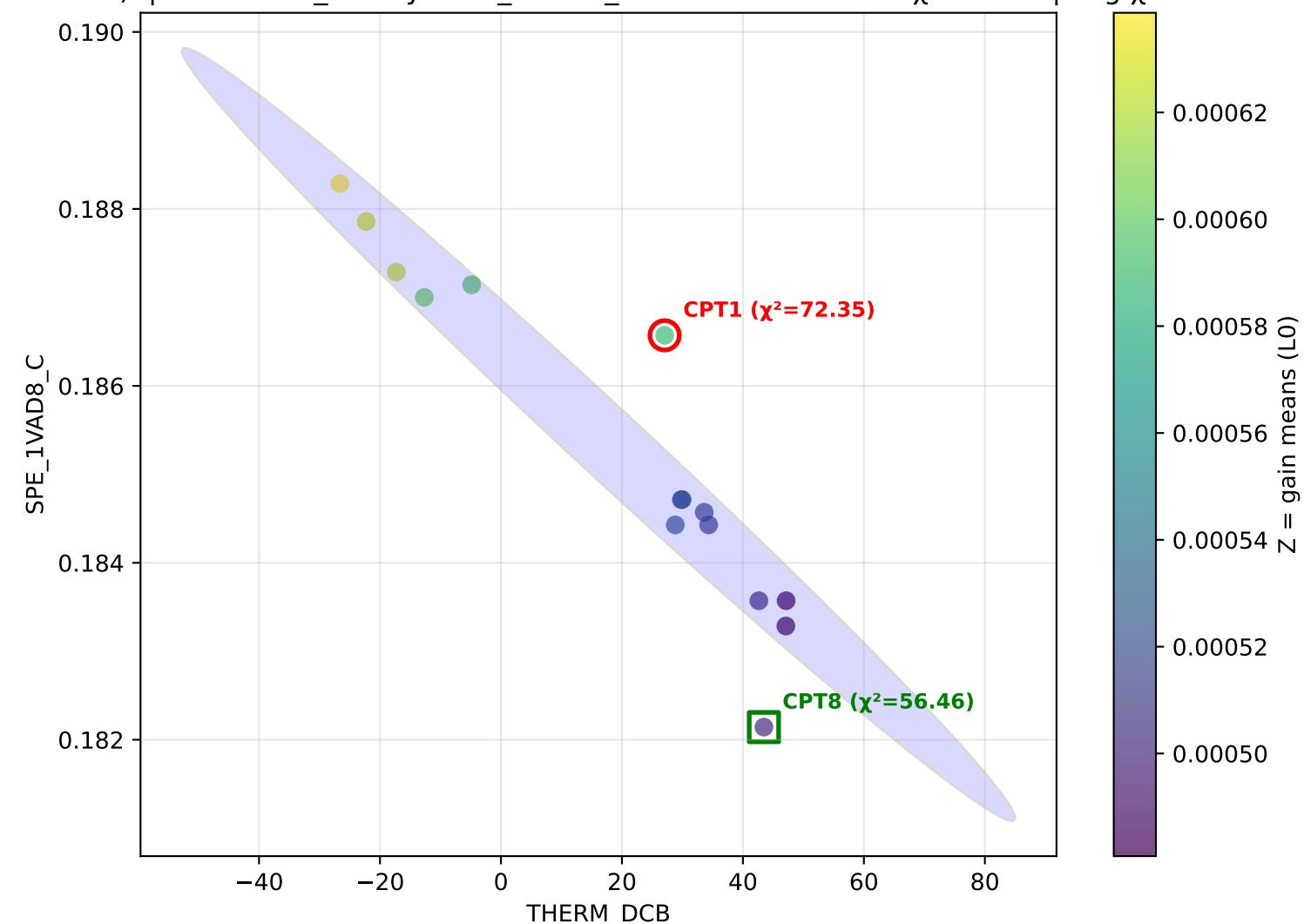
withCPT1) |  $x=\text{THERM\_DCB}$   $y=\text{SPE\_1VAD8\_C}$   $z=\text{H2}$  — H2 CPT1  $\chi^2=46.53$  | avg  $\chi^2=44.07$



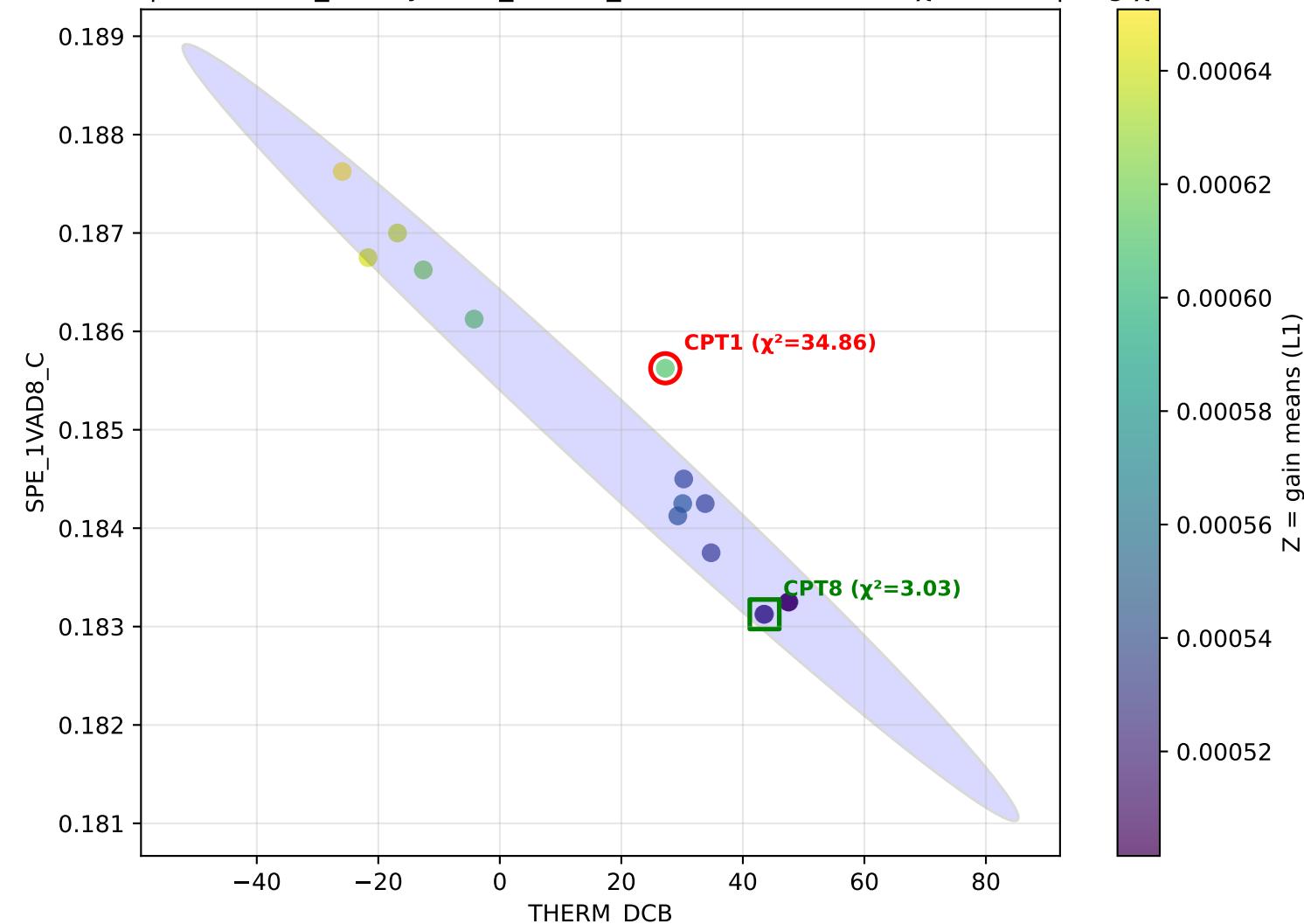
(withCPT1) |  $x=\text{THERM\_DCB}$   $y=\text{SPE\_1VAD8\_C}$   $z=\text{H3}$  — H3 CPT1  $\chi^2=22.53$  | avg  $\chi^2=44.07$



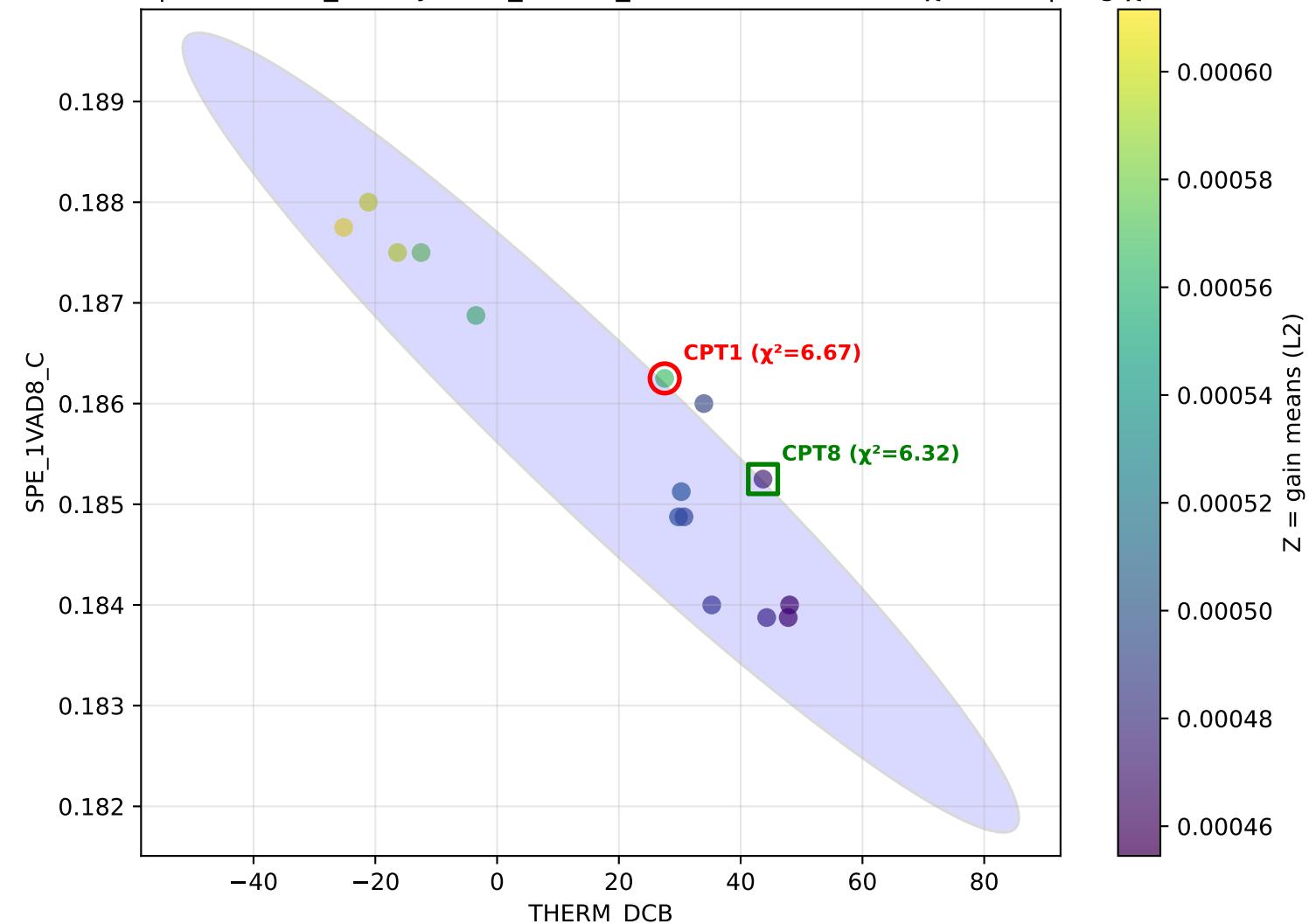
withCPT1) |  $x=\text{THERM\_DCB}$   $y=\text{SPE\_1VAD8\_C}$   $z=L_0$  —  $L_0 \text{ CPT1 } \chi^2=72.35$  | avg  $\chi^2=44.07$



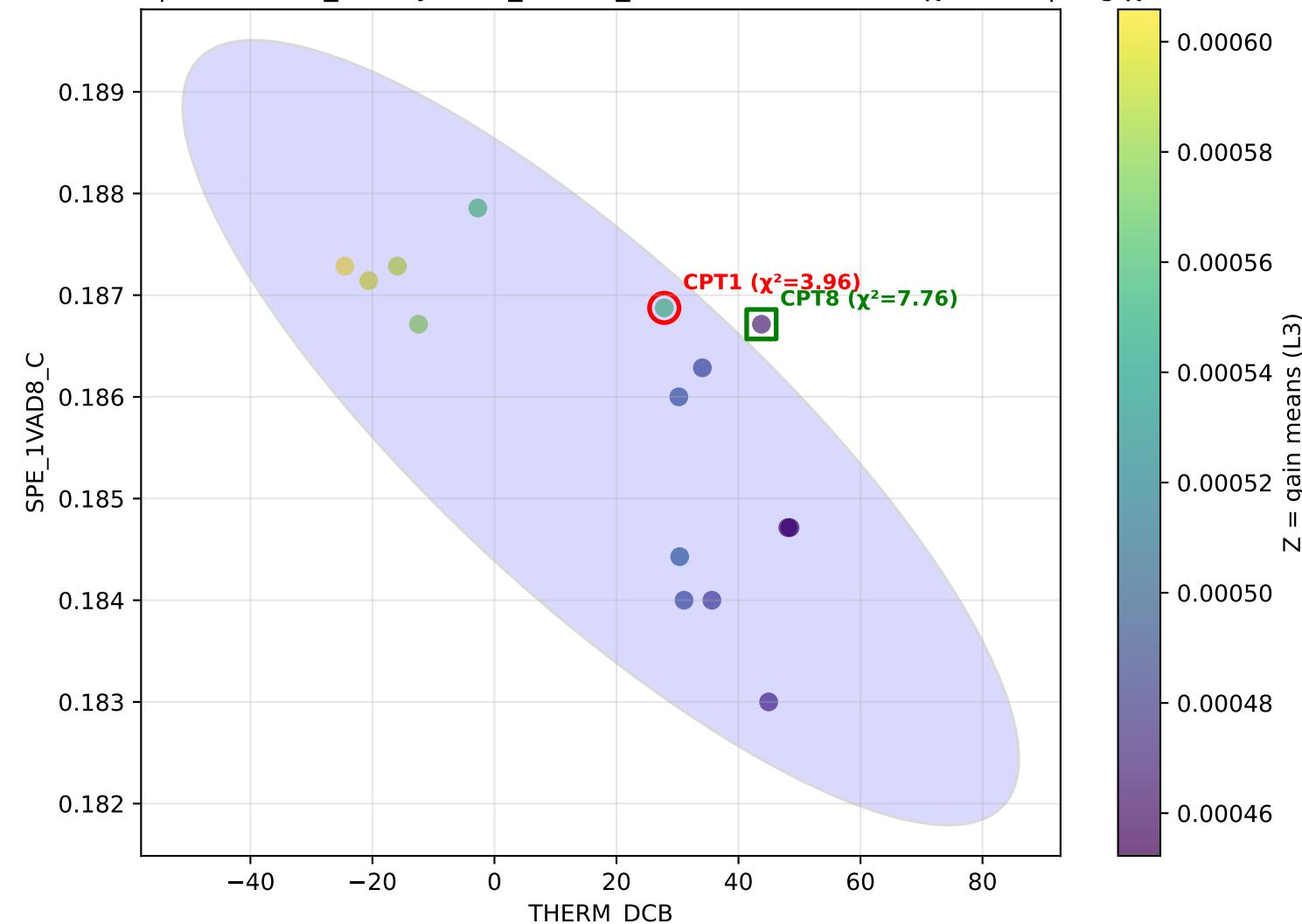
withCPT1) |  $x=\text{THERM\_DCB}$   $y=\text{SPE\_1VAD8\_C}$   $z=L1$  —  $L1 \text{ CPT1 } \chi^2=34.86$  | avg  $\chi^2=44.07$



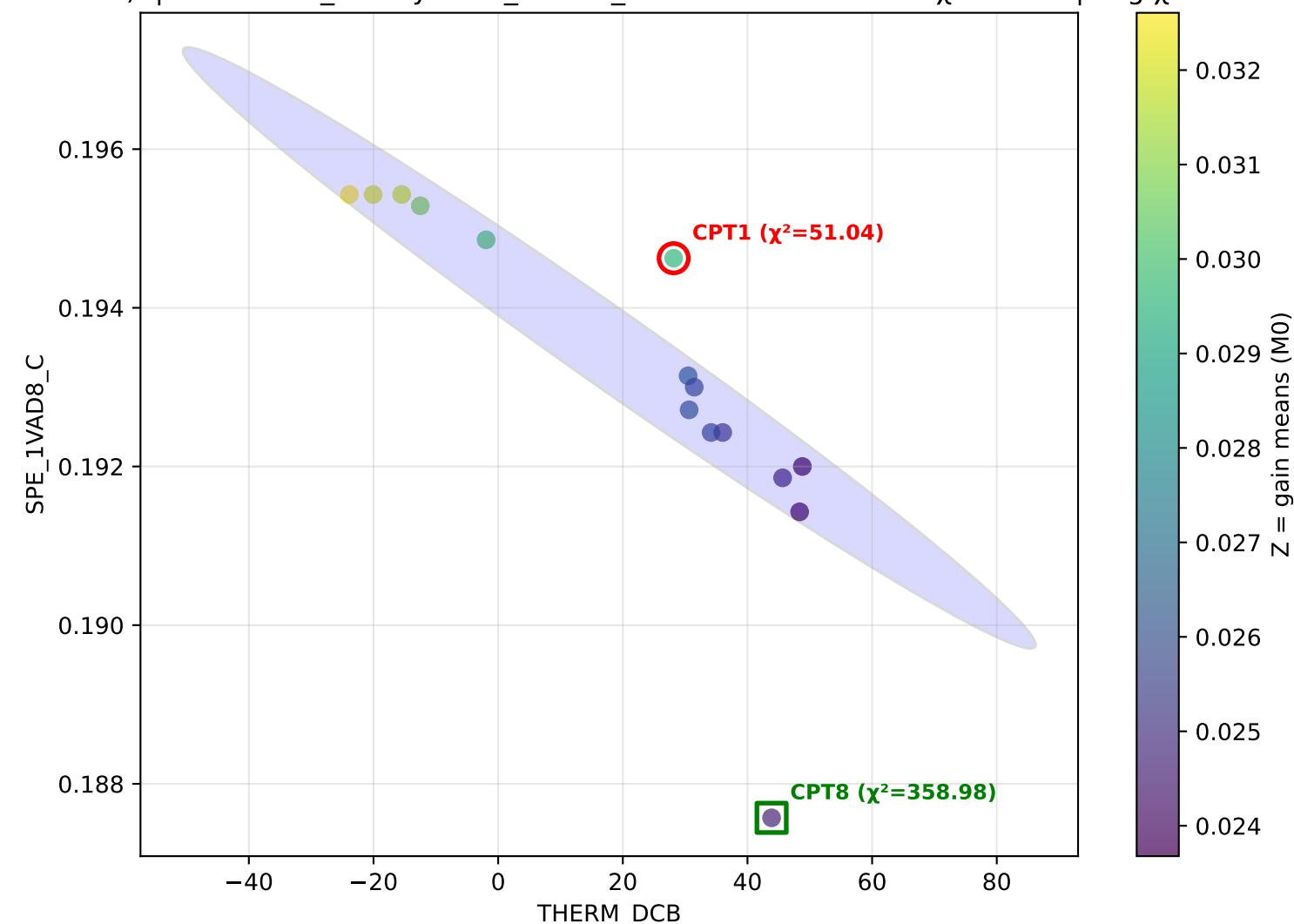
withCPT1) |  $x=\text{THERM\_DCB}$   $y=\text{SPE\_1VAD8\_C}$   $z=L2$  — L2 CPT1  $\chi^2=6.67$  | avg  $\chi^2=44.07$



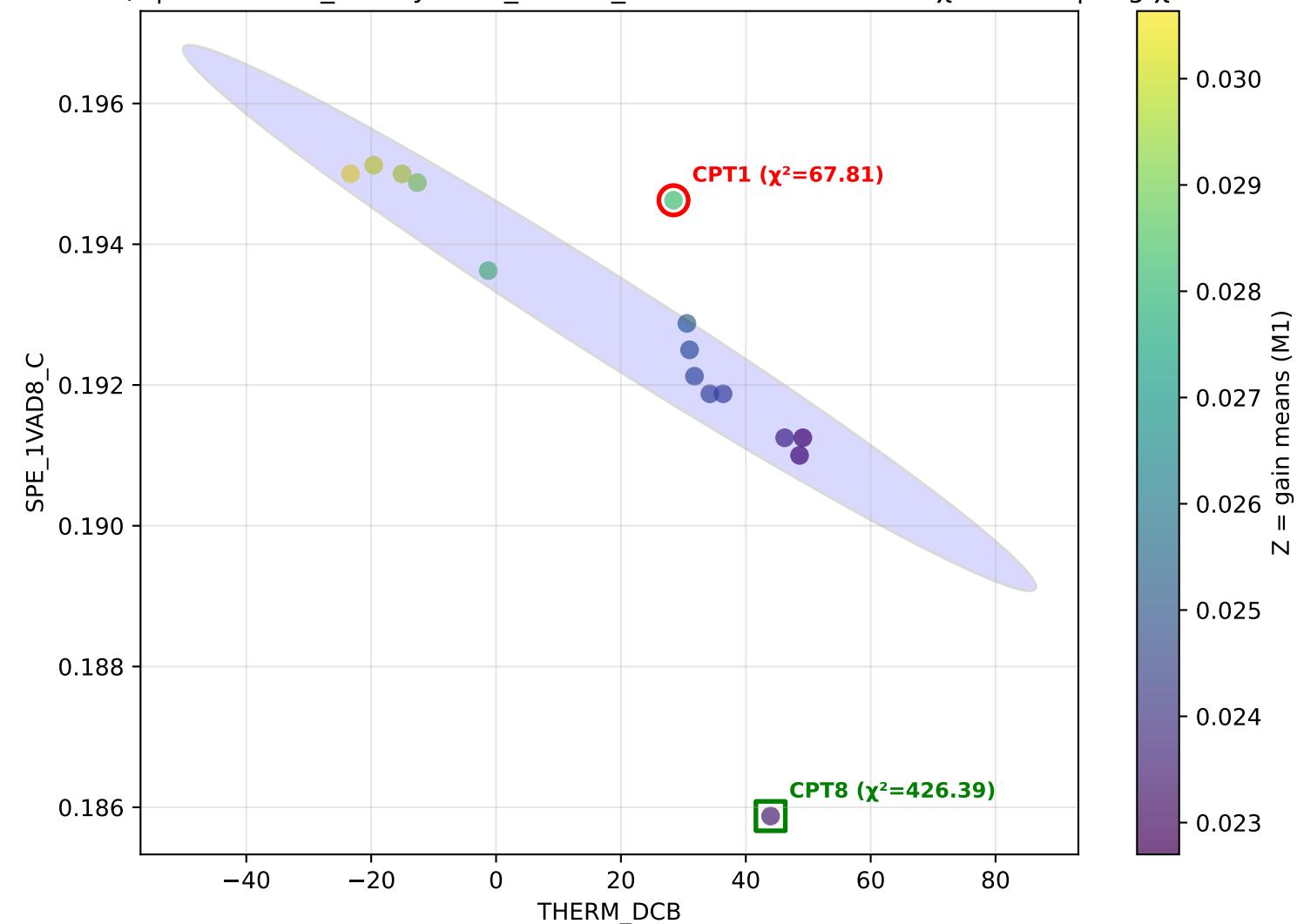
withCPT1) |  $x=\text{THERM\_DCB}$   $y=\text{SPE\_1VAD8\_C}$   $z=L3$  — L3 CPT1  $\chi^2=3.96$  | avg  $\chi^2=44.07$

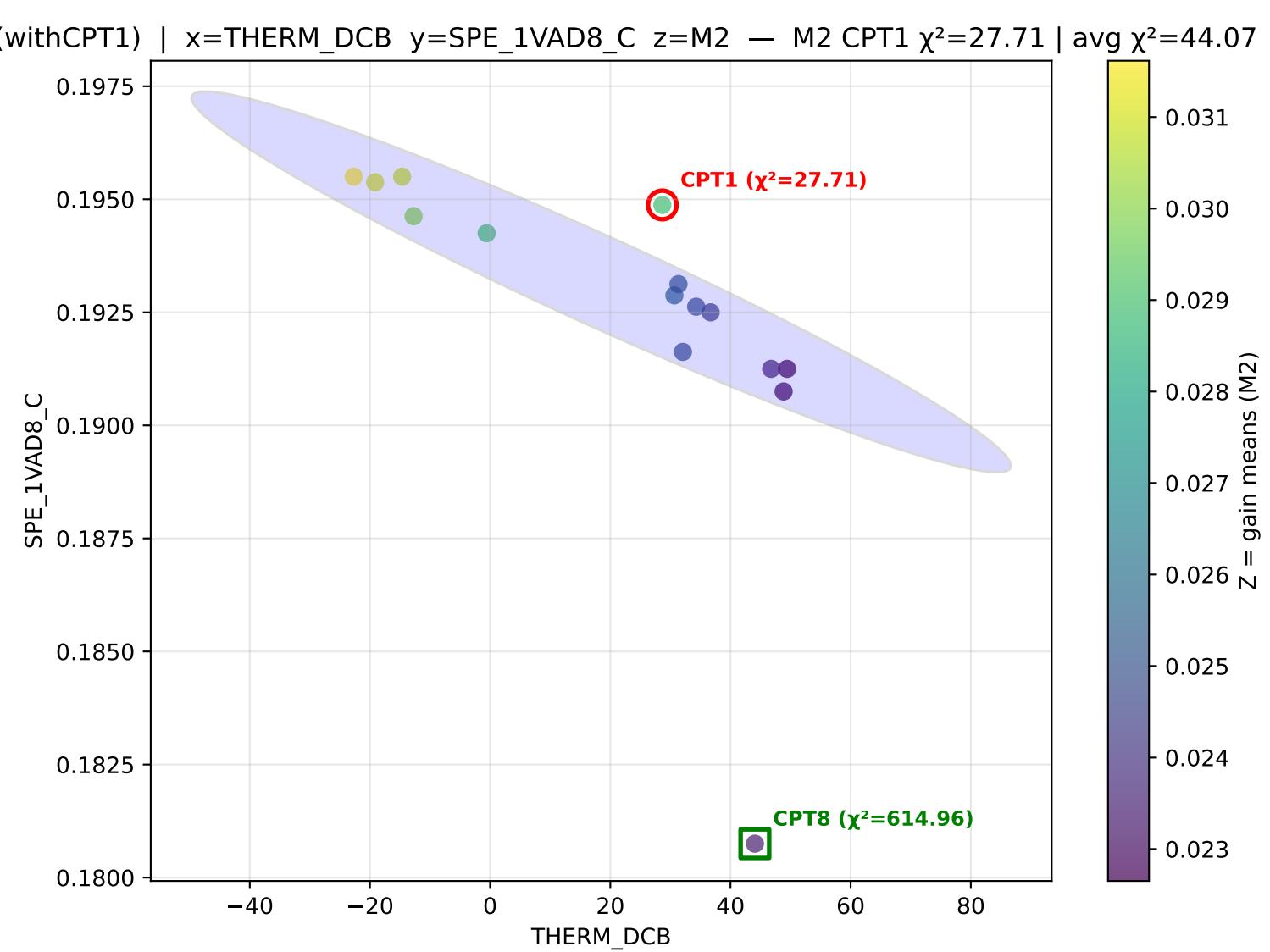


withCPT1) |  $x=\text{THERM\_DCB}$   $y=\text{SPE\_1VAD8\_C}$   $z=M0$  — M0 CPT1  $\chi^2=51.04$  | avg  $\chi^2=44.07$

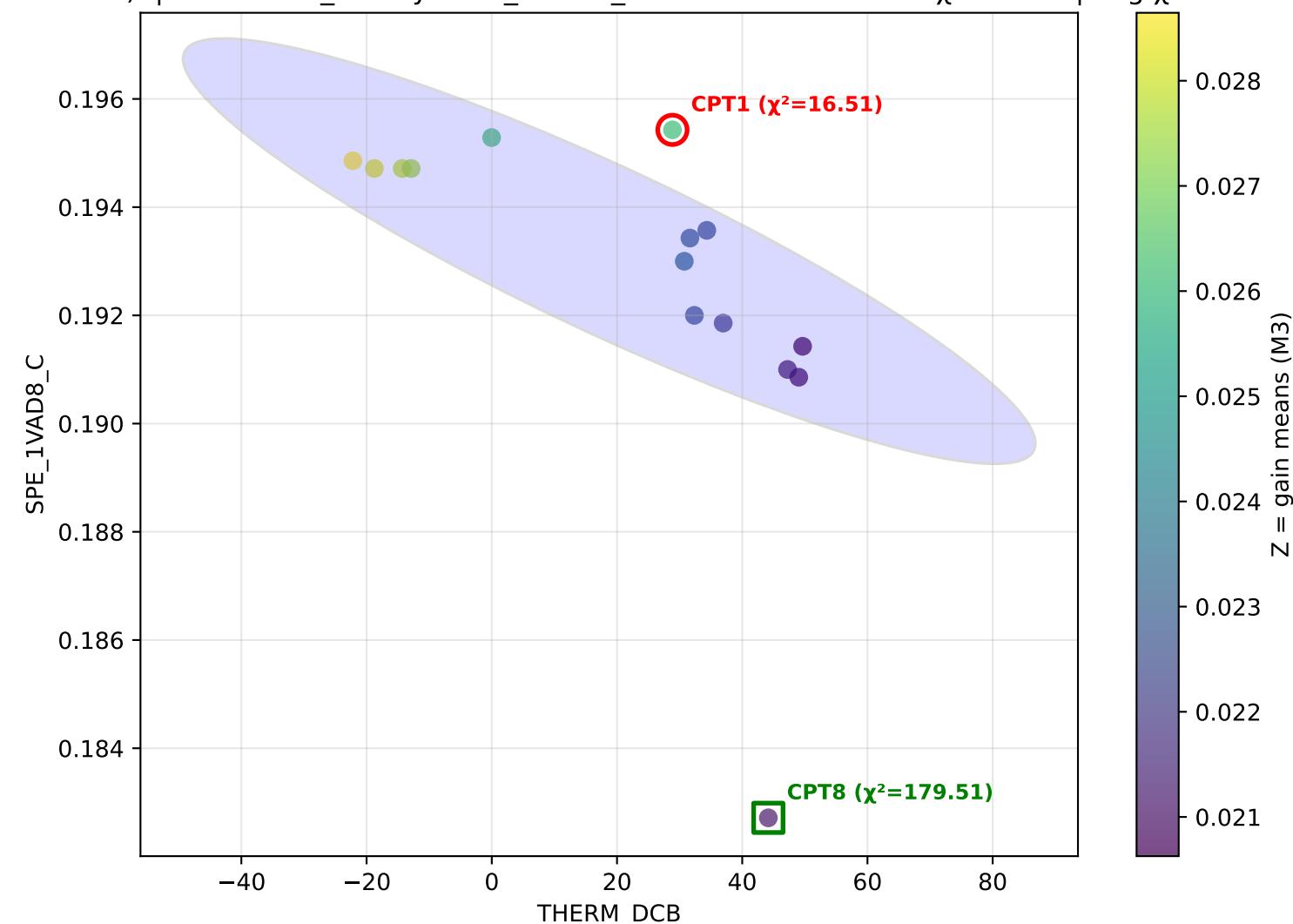


withCPT1) | x=THERM\_DC B y=SPE\_1VAD8\_C z=M1 — M1 CPT1  $\chi^2=67.81$  | avg  $\chi^2=44.07$



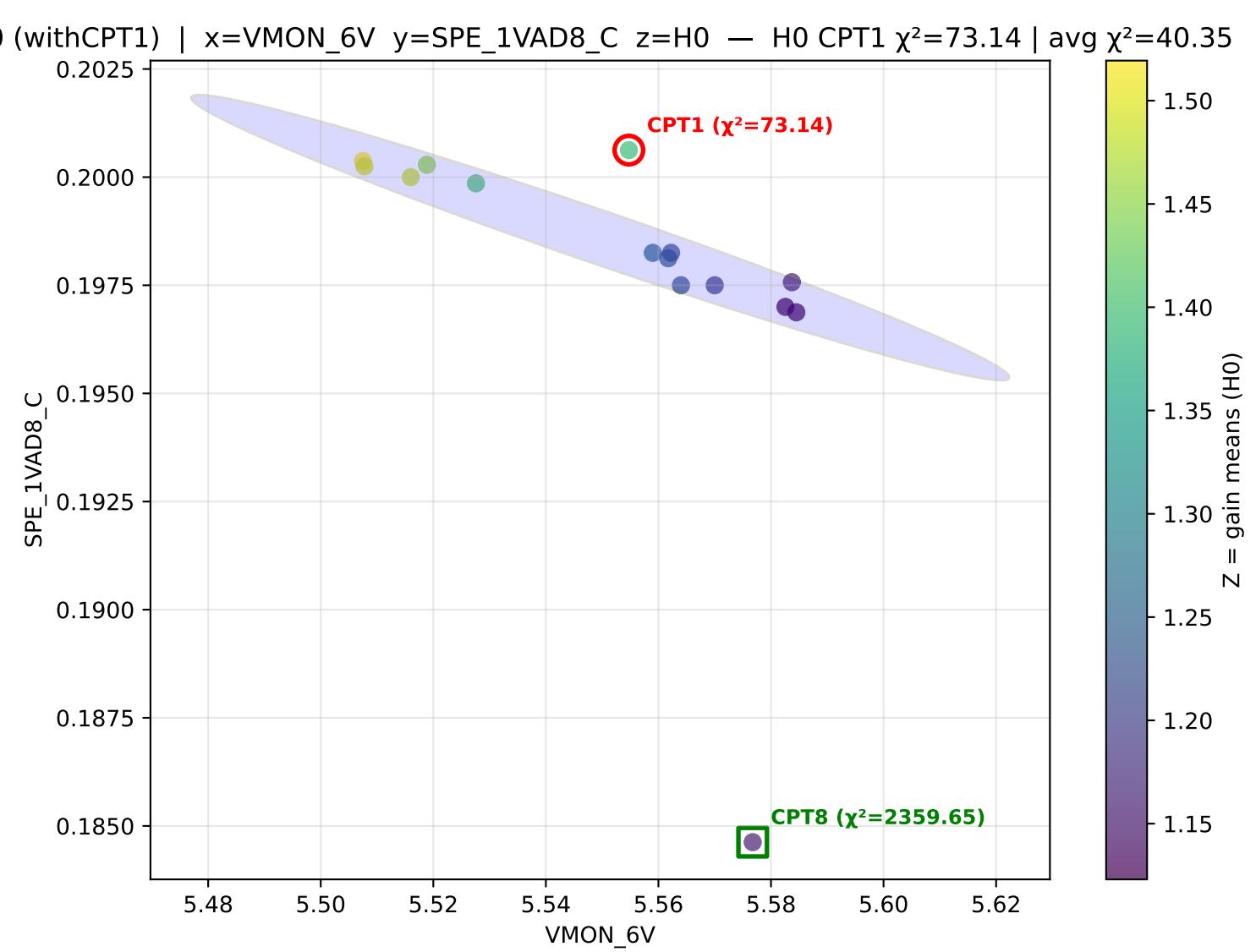


withCPT1) |  $x=\text{THERM\_DCB}$   $y=\text{SPE\_1VAD8\_C}$   $z=M3$  — M3 CPT1  $\chi^2=16.51$  | avg  $\chi^2=44.07$

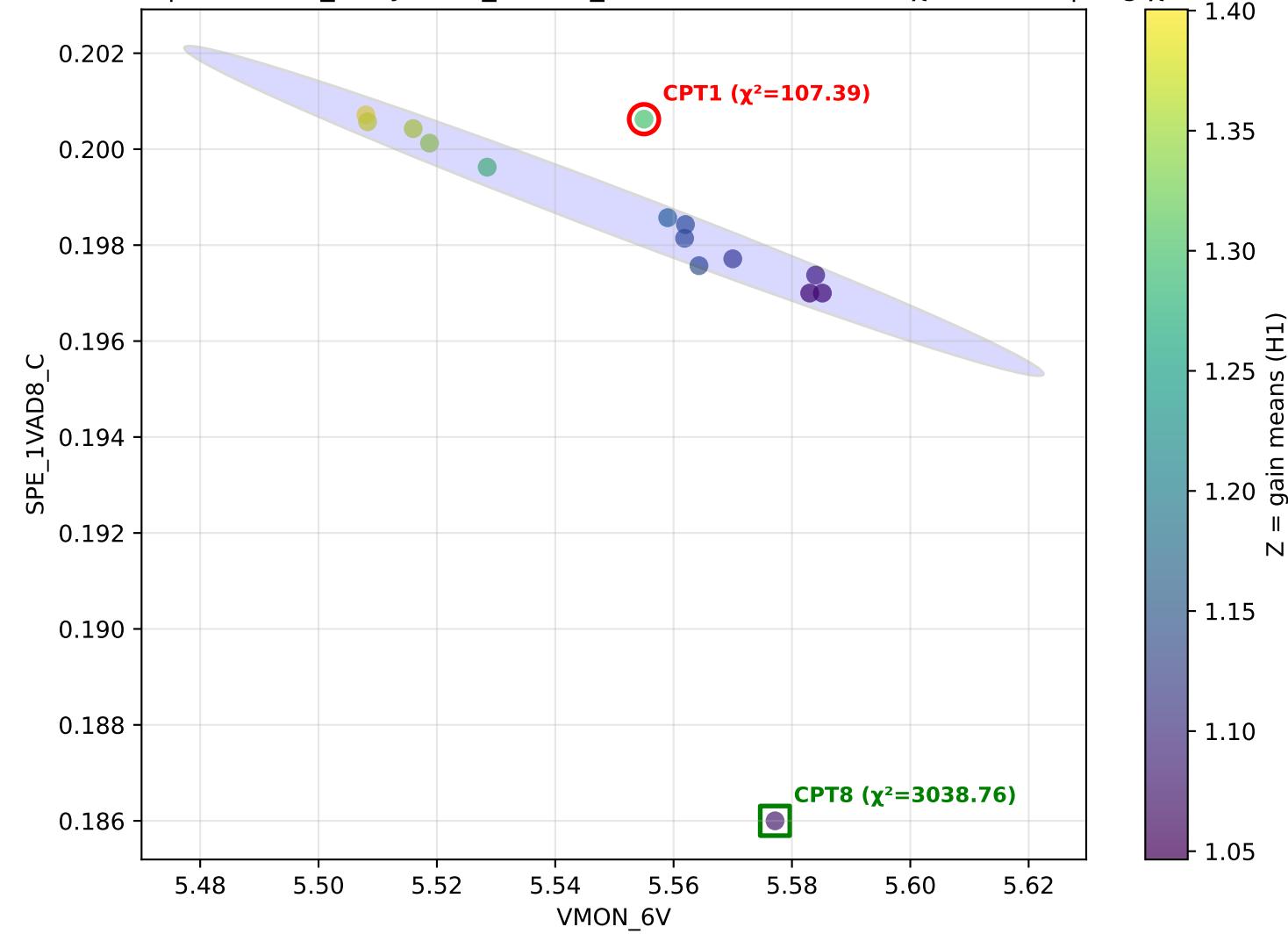


Pair: VMON\_6V vs SPE\_1VAD8\_C

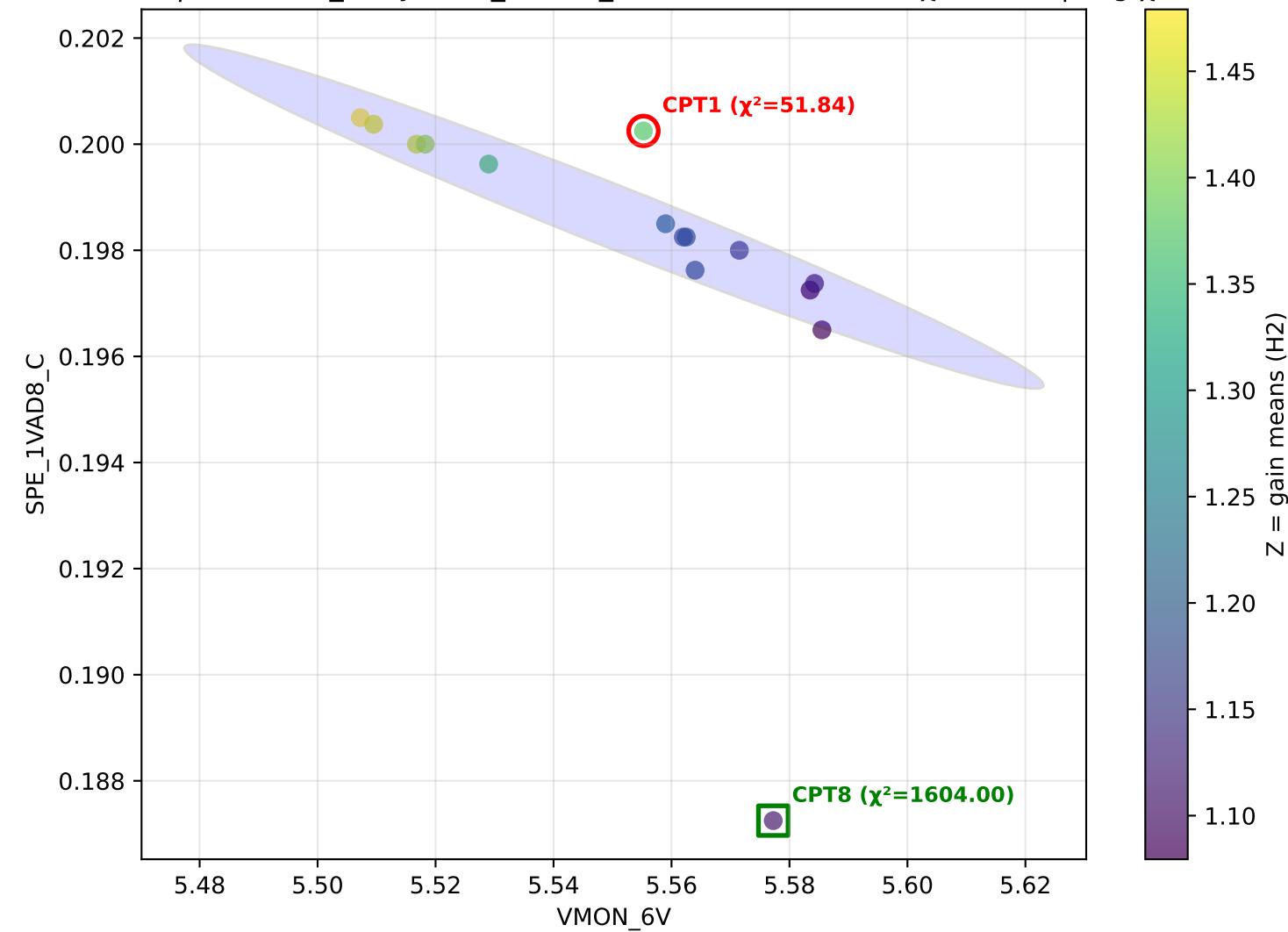
Average  $\chi^2$ (CPT1) across settings: 40.35



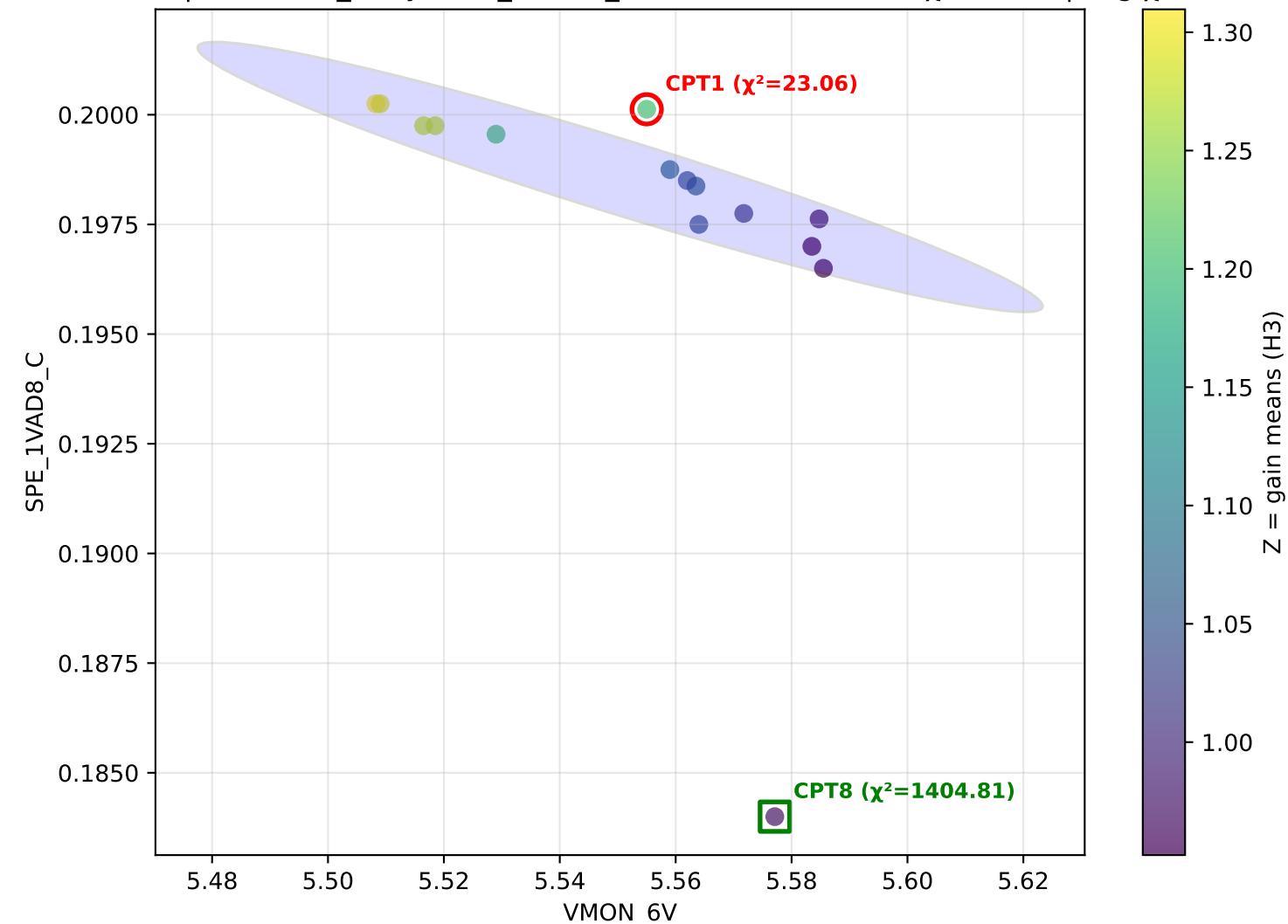
(withCPT1) | x=VMON\_6V y=SPE\_1VAD8\_C z=H1 — H1 CPT1  $\chi^2=107.39$  | avg  $\chi^2=40.35$



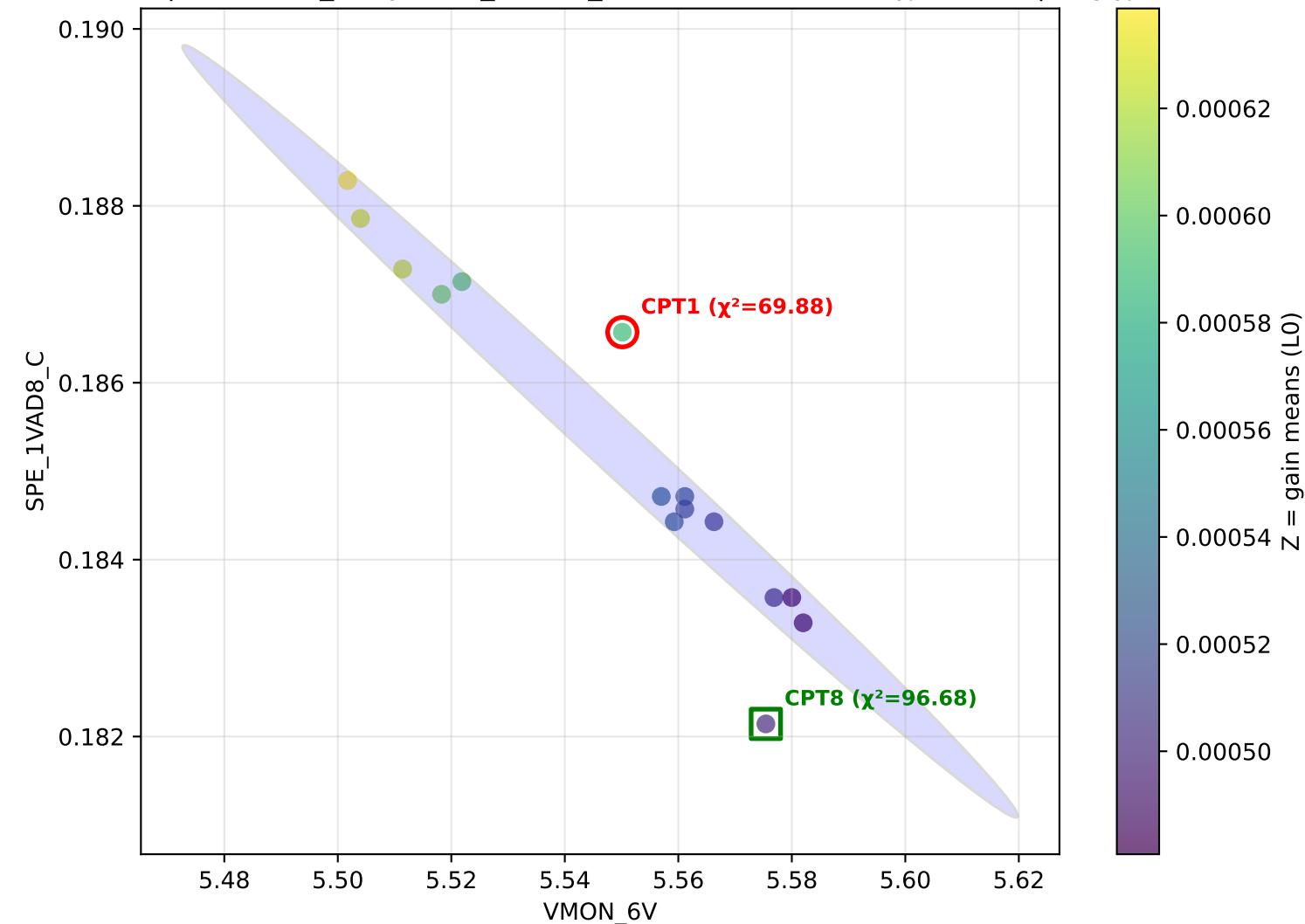
(withCPT1) | x=VMON\_6V y=SPE\_1VAD8\_C z=H2 — H2 CPT1  $\chi^2=51.84$  | avg  $\chi^2=40.35$



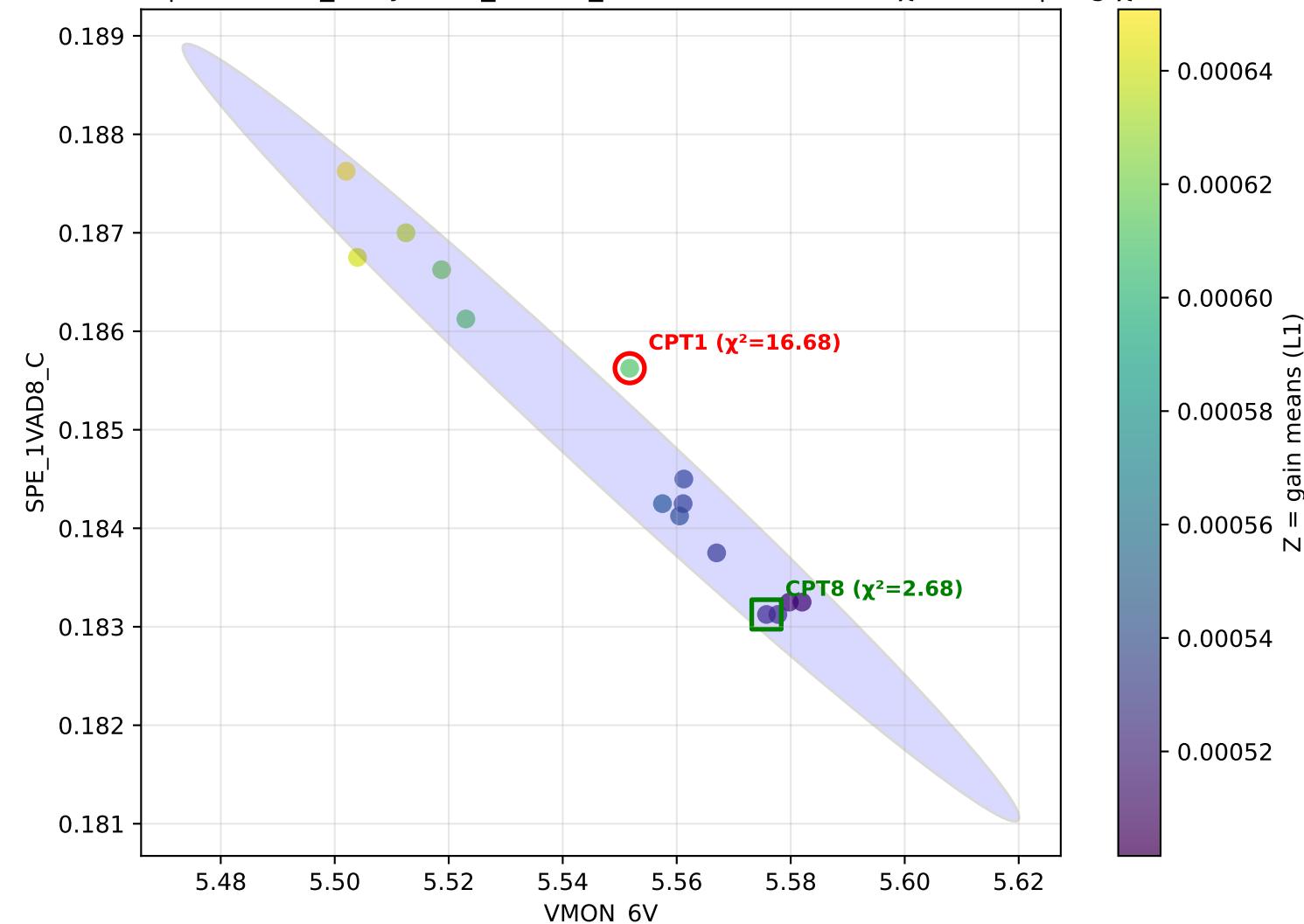
B (withCPT1) | x=VMON\_6V y=SPE\_1VAD8\_C z=H3 — H3 CPT1  $\chi^2=23.06$  | avg  $\chi^2=40.35$



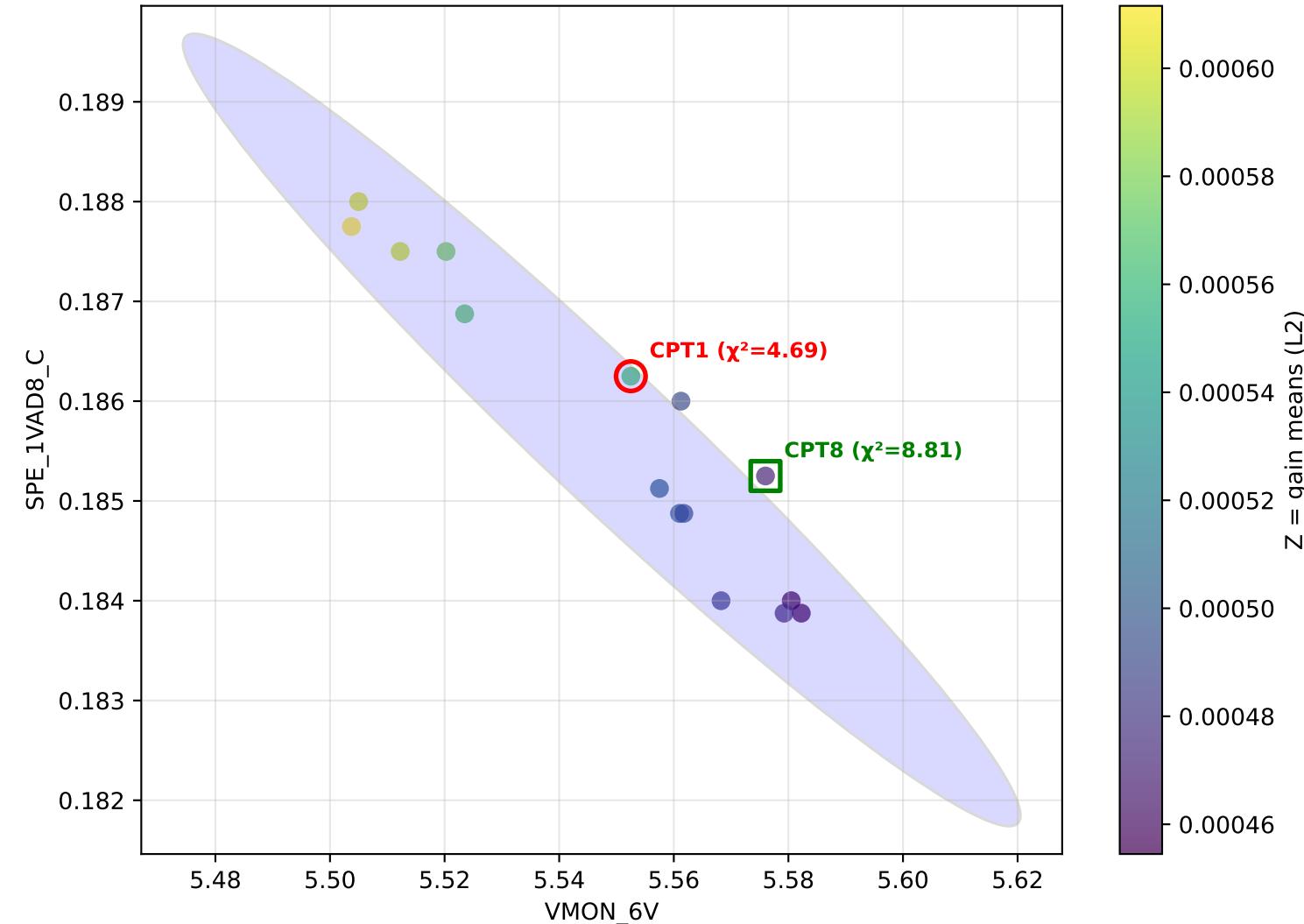
(withCPT1) | x=VMON\_6V y=SPE\_1VAD8\_C z=L0 — L0 CPT1  $\chi^2=69.88$  | avg  $\chi^2=40.35$



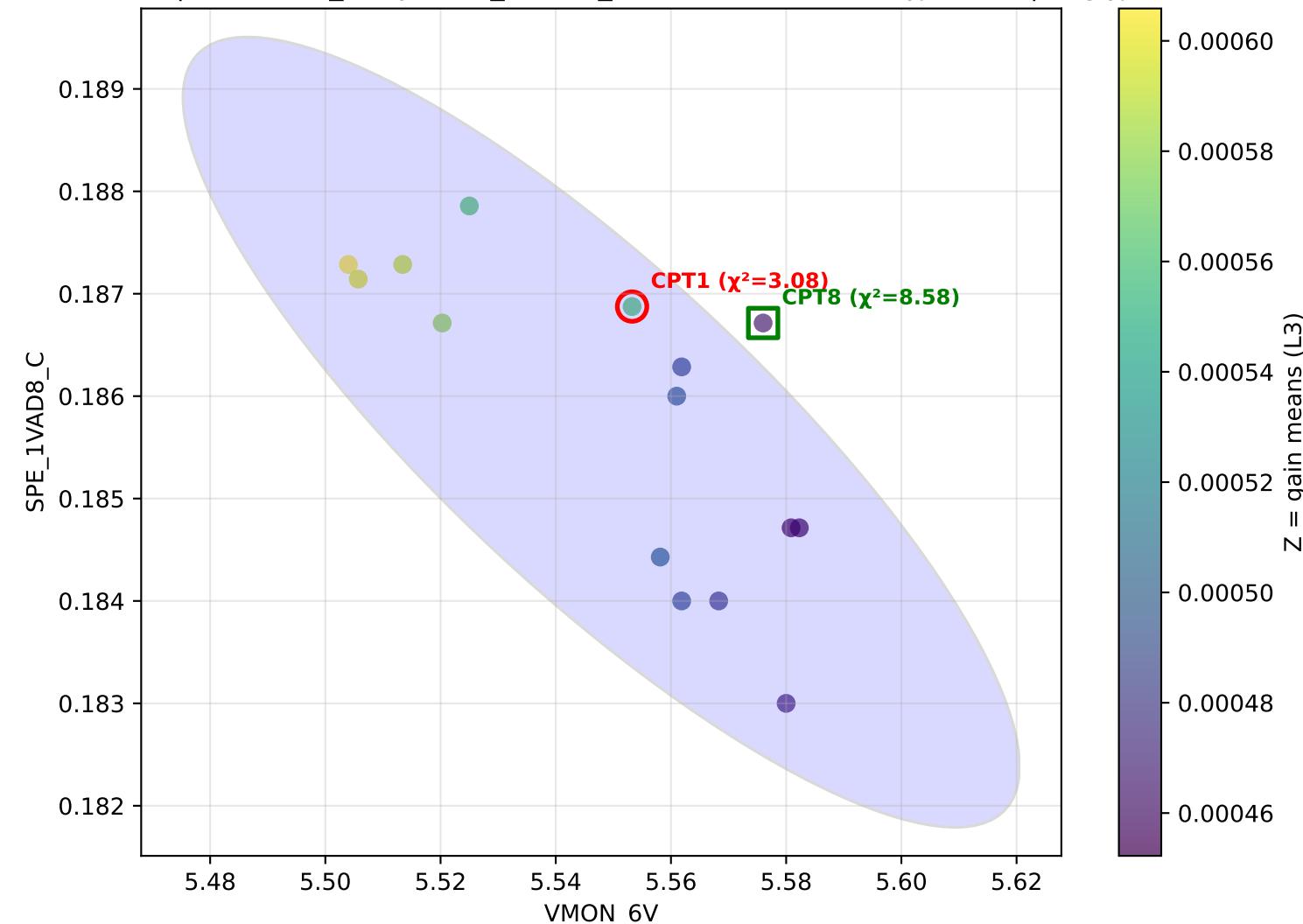
(withCPT1) | x=VMON\_6V y=SPE\_1VAD8\_C z=L1 — L1 CPT1  $\chi^2=16.68$  | avg  $\chi^2=40.35$



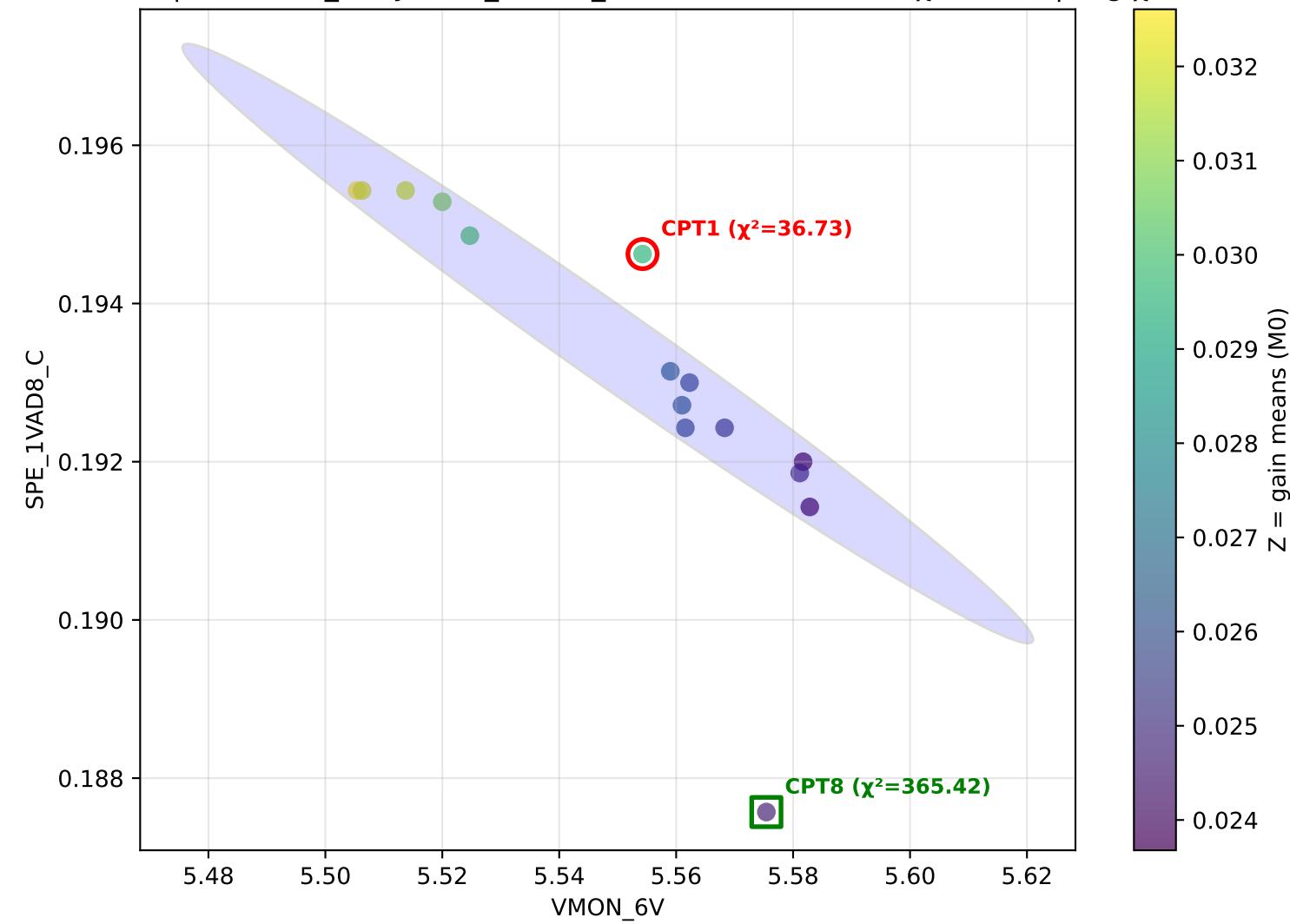
(withCPT1) | x=VMON\_6V y=SPE\_1VAD8\_C z=L2 — L2 CPT1  $\chi^2=4.69$  | avg  $\chi^2=40.35$



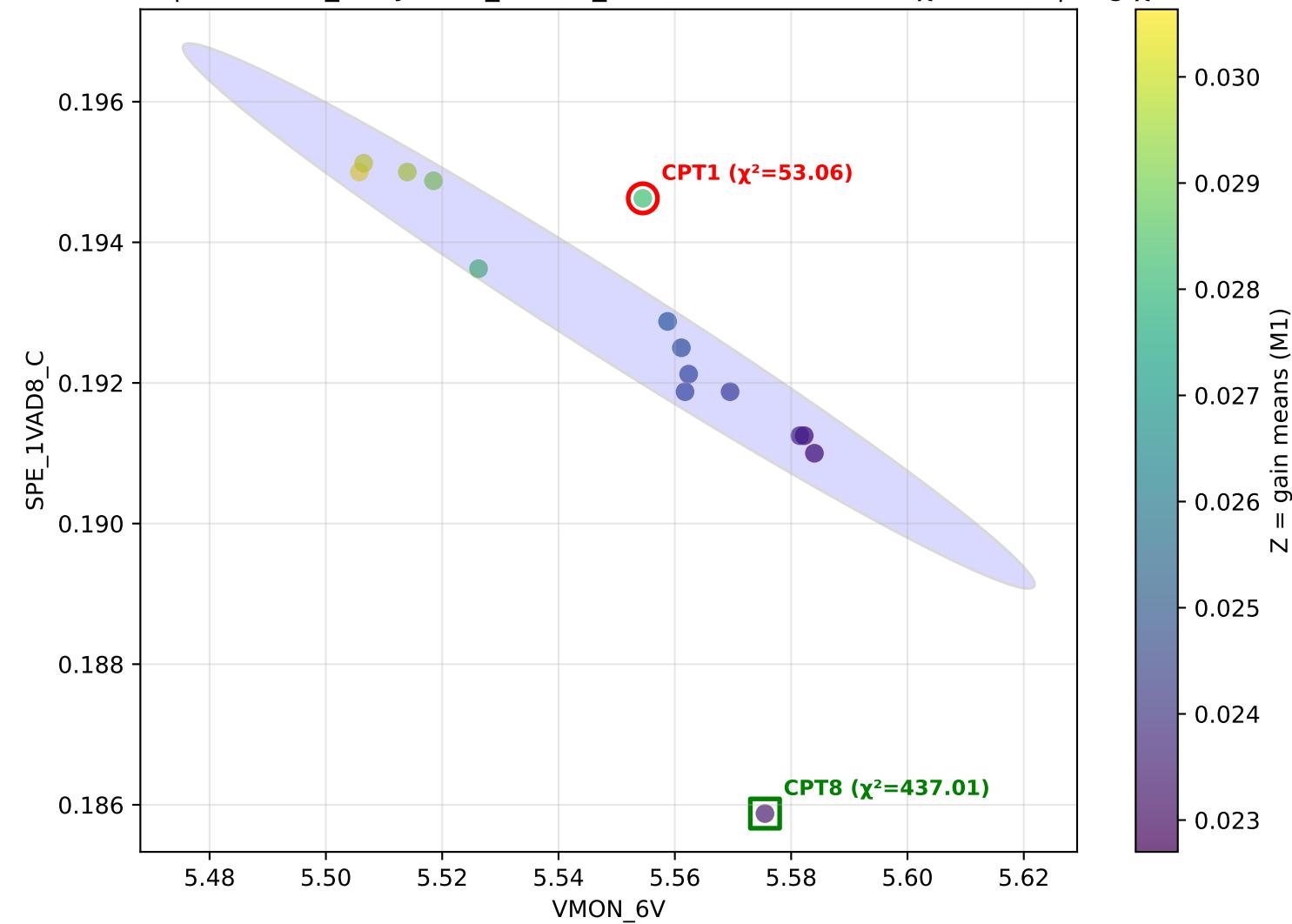
(withCPT1) | x=VMON\_6V y=SPE\_1VAD8\_C z=L3 — L3 CPT1  $\chi^2=3.08$  | avg  $\chi^2=40.35$



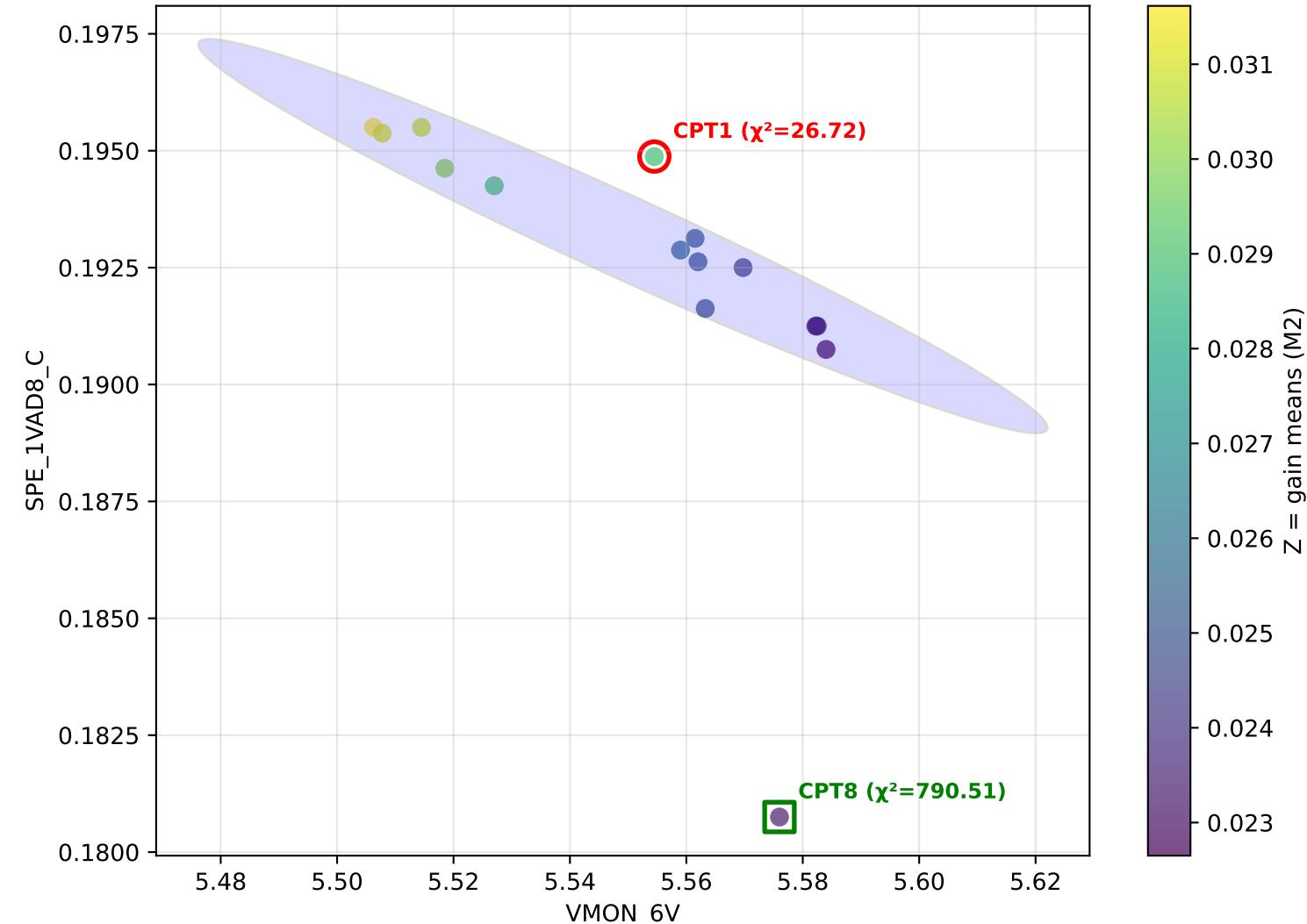
(withCPT1) | x=VMON\_6V y=SPE\_1VAD8\_C z=M0 — M0 CPT1  $\chi^2=36.73$  | avg  $\chi^2=40.35$



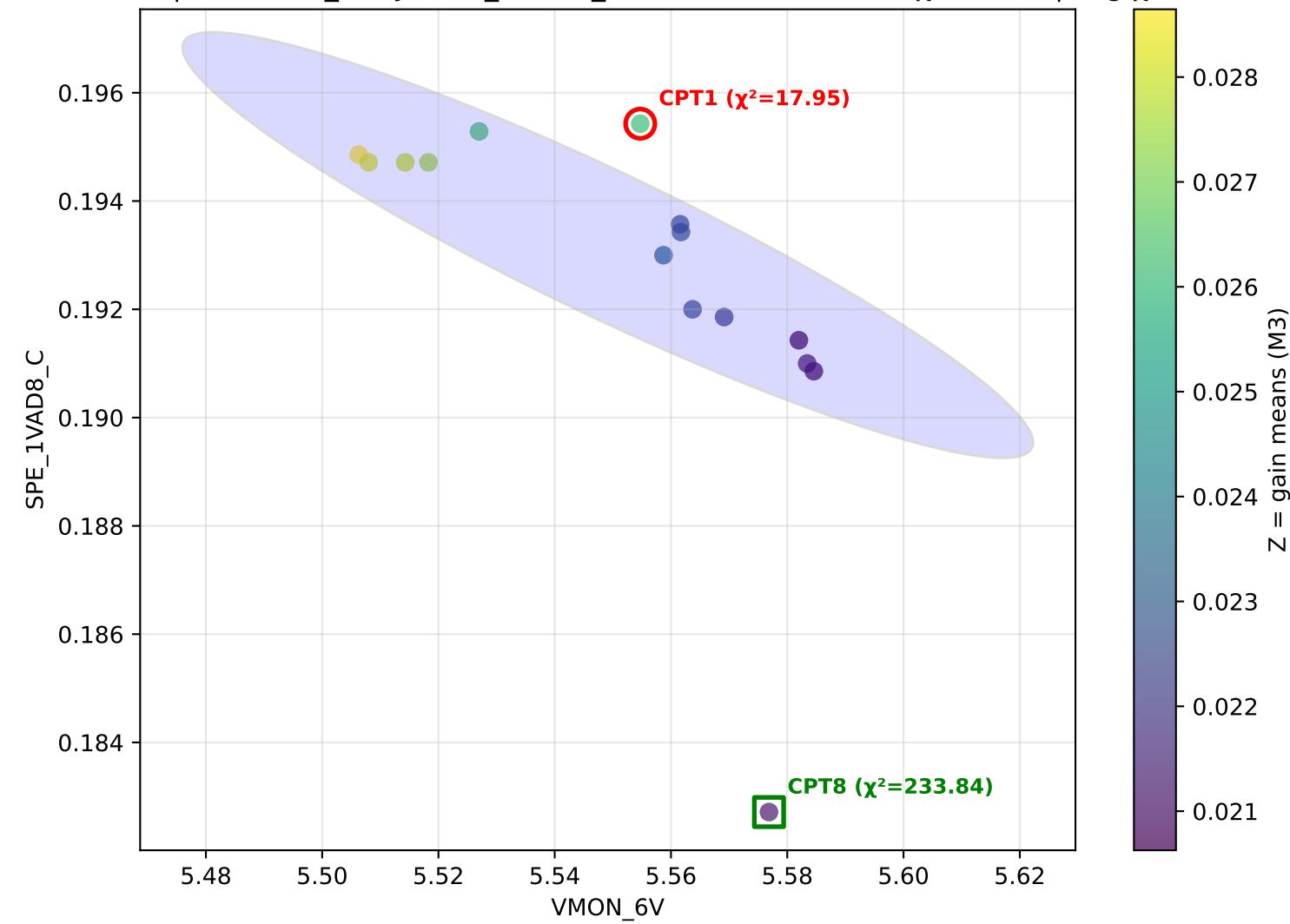
(withCPT1) | x=VMON\_6V y=SPE\_1VAD8\_C z=M1 — M1 CPT1  $\chi^2=53.06$  | avg  $\chi^2=40.35$



(withCPT1) | x=VMON\_6V y=SPE\_1VAD8\_C z=M2 — M2 CPT1  $\chi^2=26.72$  | avg  $\chi^2=40.35$



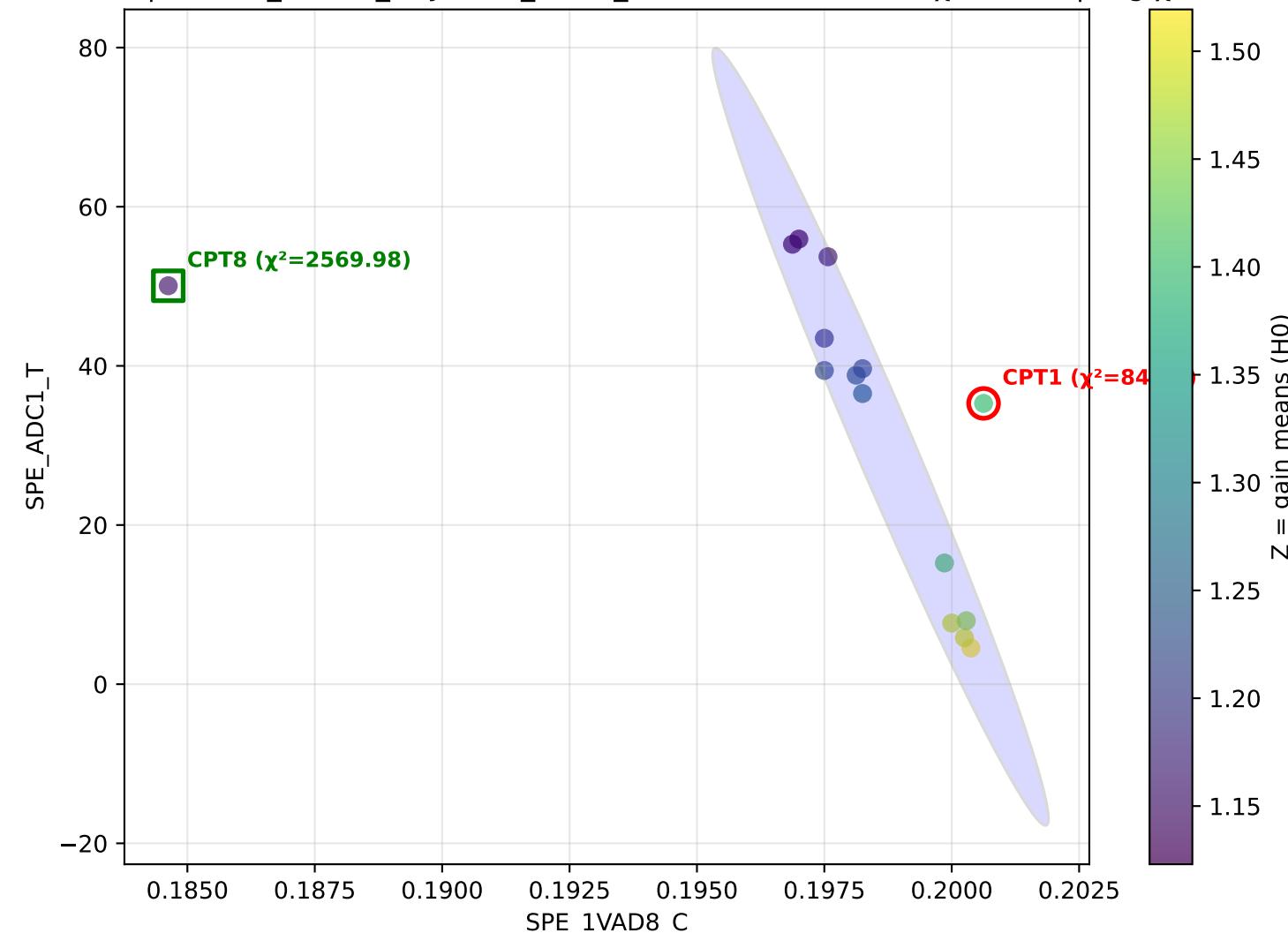
(withCPT1) | x=VMON\_6V y=SPE\_1VAD8\_C z=M3 — M3 CPT1  $\chi^2=17.95$  | avg  $\chi^2=40.35$



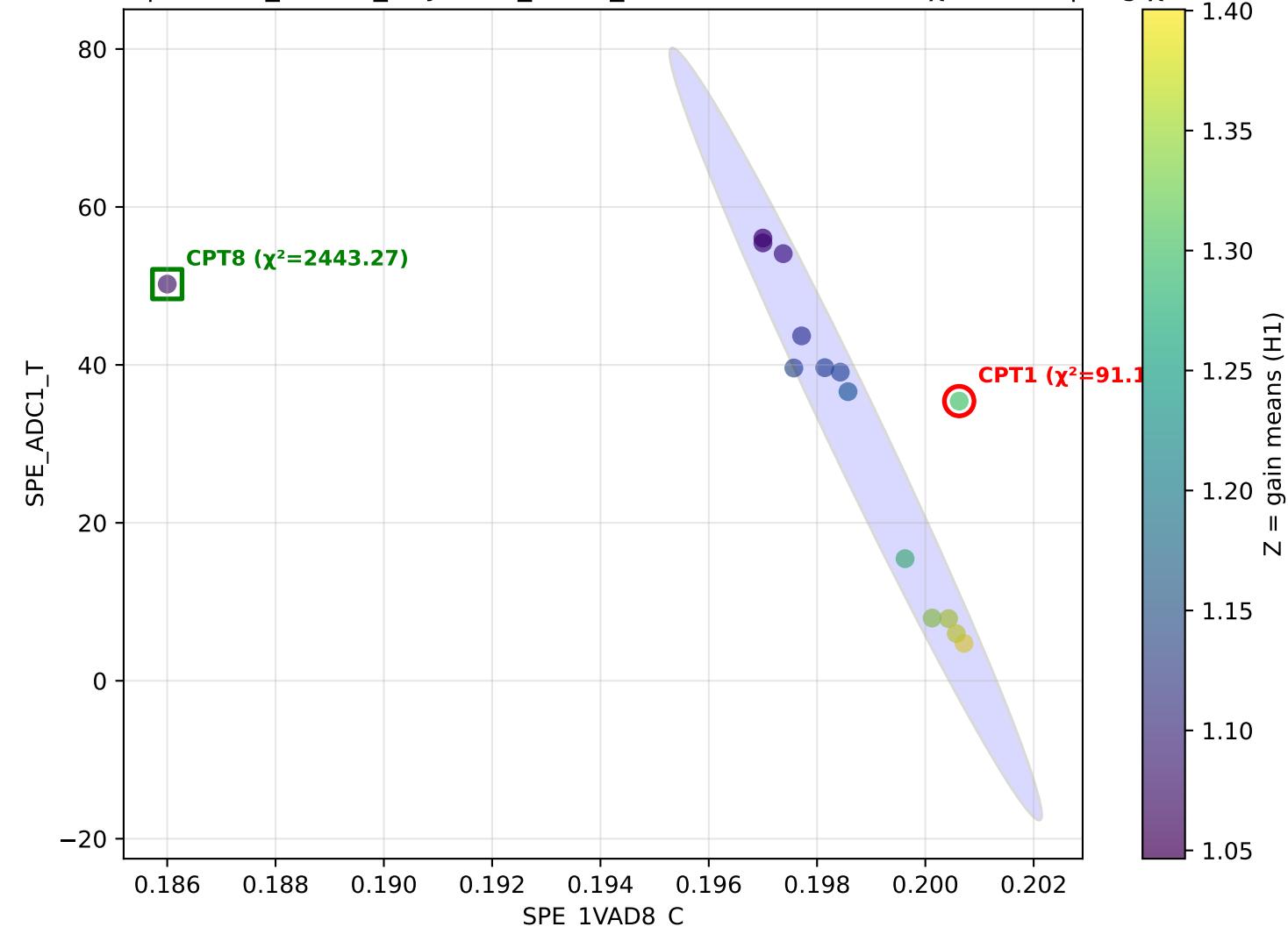
Pair: SPE\_1VAD8\_C vs SPE\_ADC1\_T

Average  $\chi^2(\text{CPT1})$  across settings: 39.33

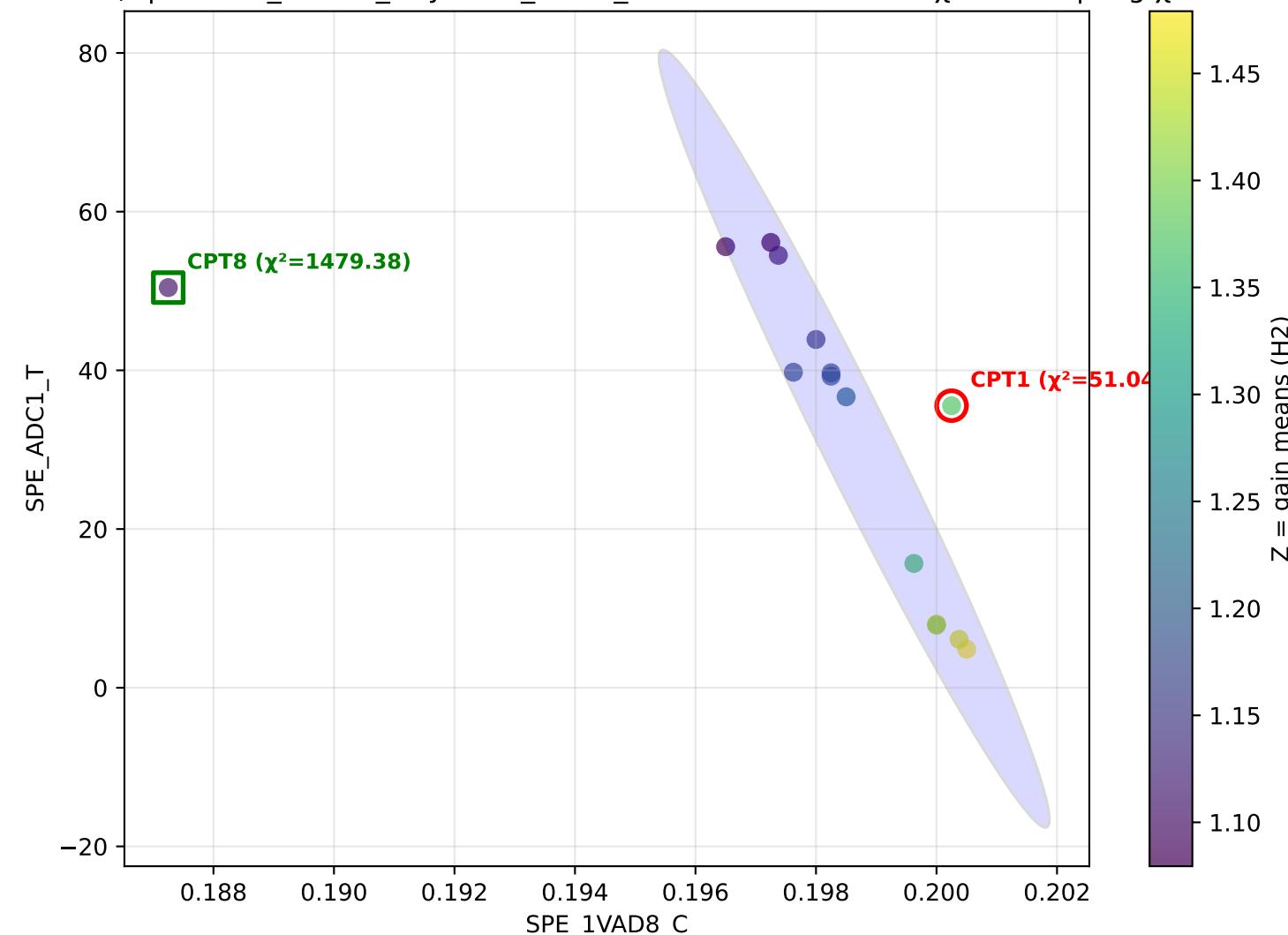
withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{SPE\_ADC1\_T}$   $z=\text{H0}$  — H0 CPT1  $\chi^2=84.08$  | avg  $\chi^2=39.33$



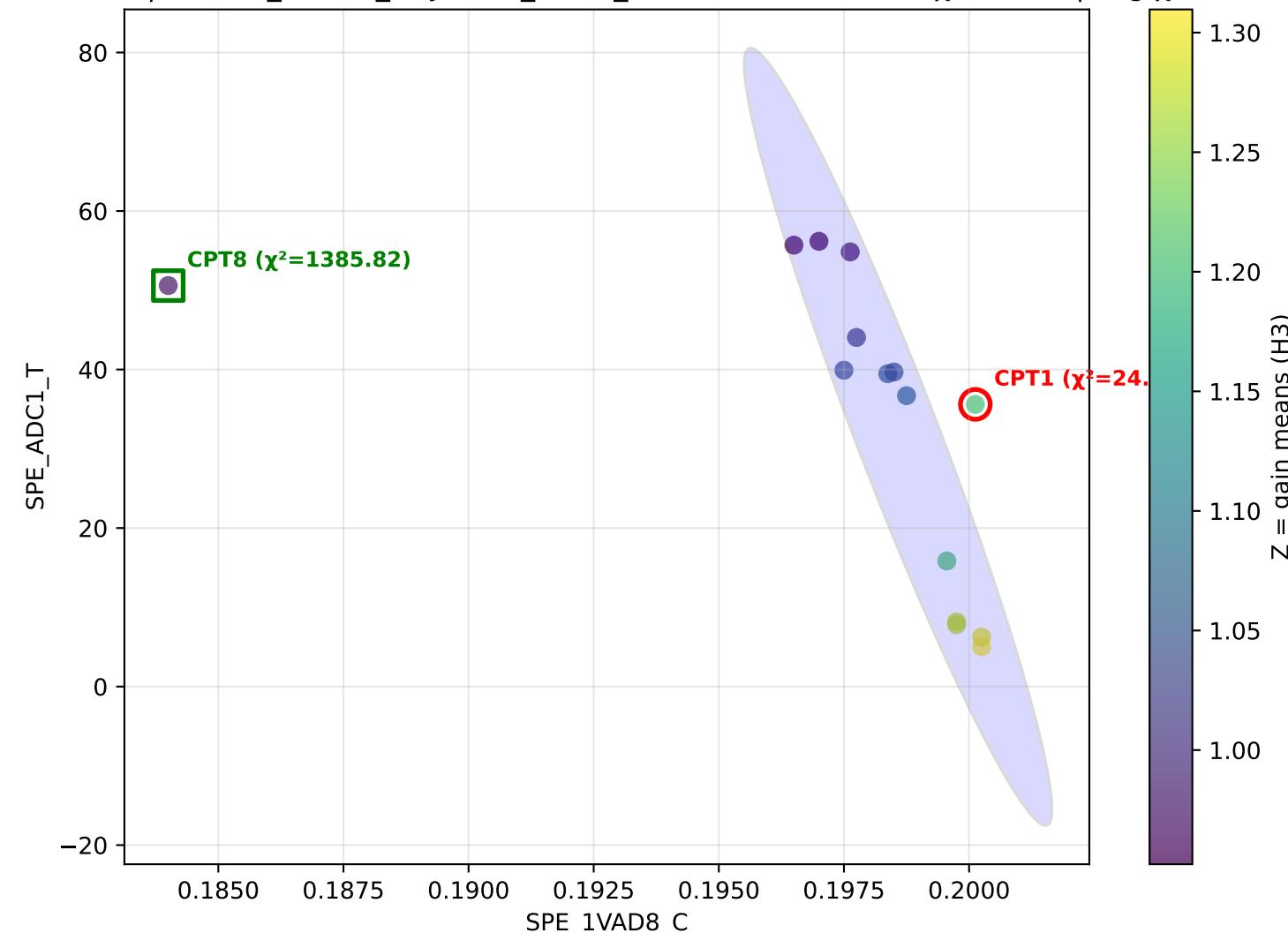
withCPT1) | x=SPE\_1VAD8\_C y=SPE\_ADC1\_T z=H1 — H1 CPT1  $\chi^2=91.11$  | avg  $\chi^2=39.33$

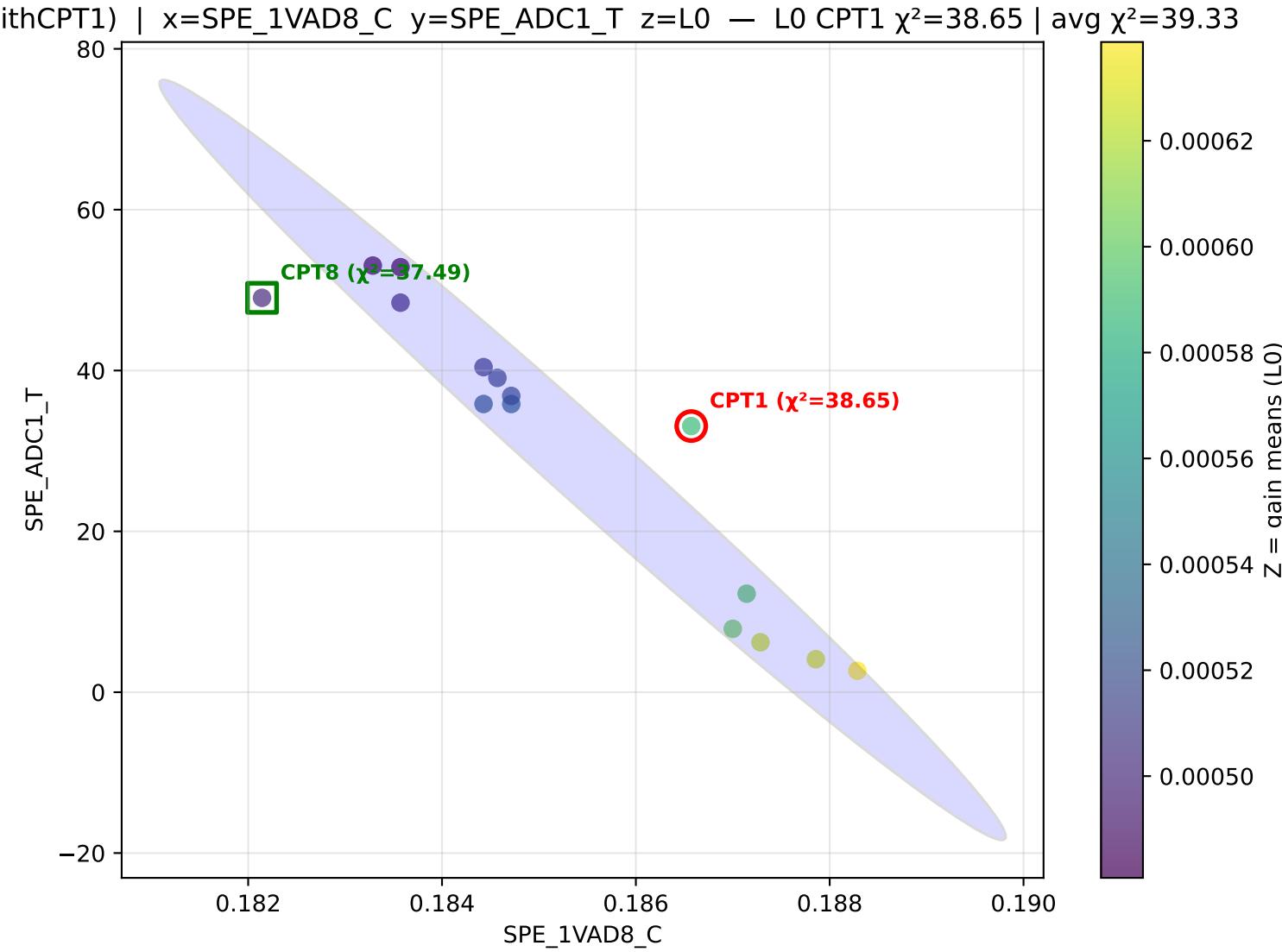


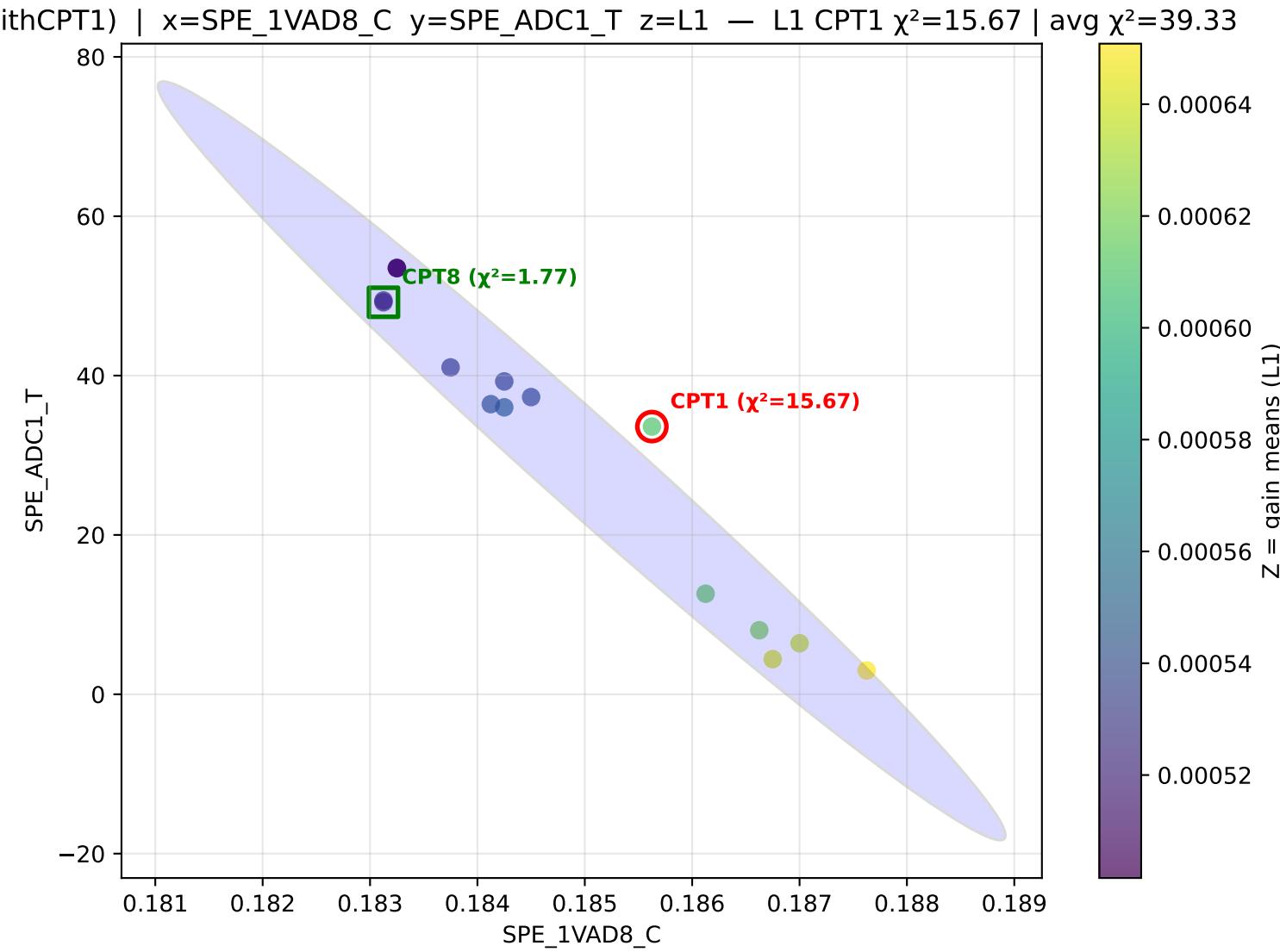
withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{SPE\_ADC1\_T}$   $z=\text{H2}$  — H2 CPT1  $\chi^2=51.04$  | avg  $\chi^2=39.33$

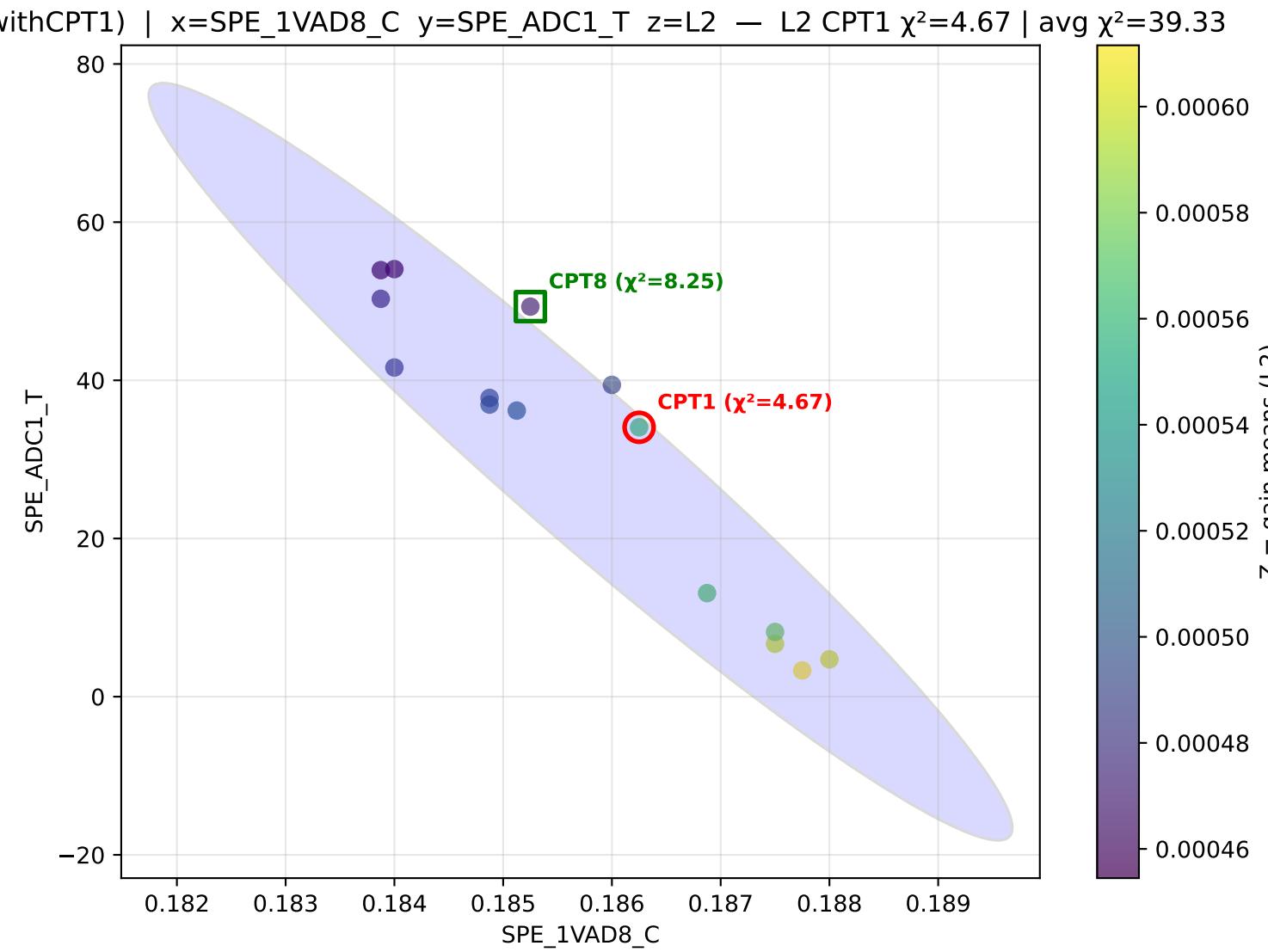


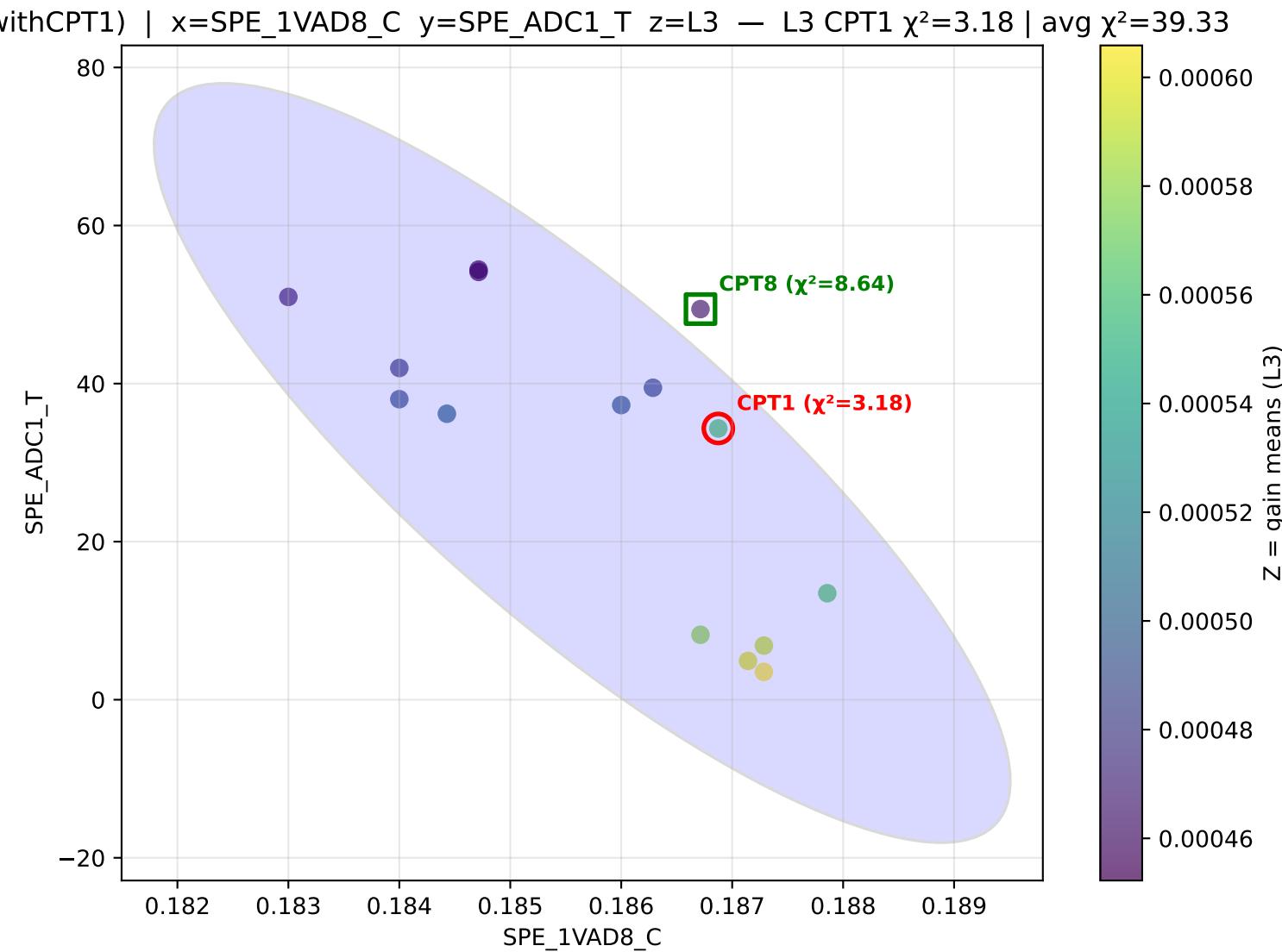
withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{SPE\_ADC1\_T}$   $z=\text{H3}$  — H3 CPT1  $\chi^2=24.62$  | avg  $\chi^2=39.33$



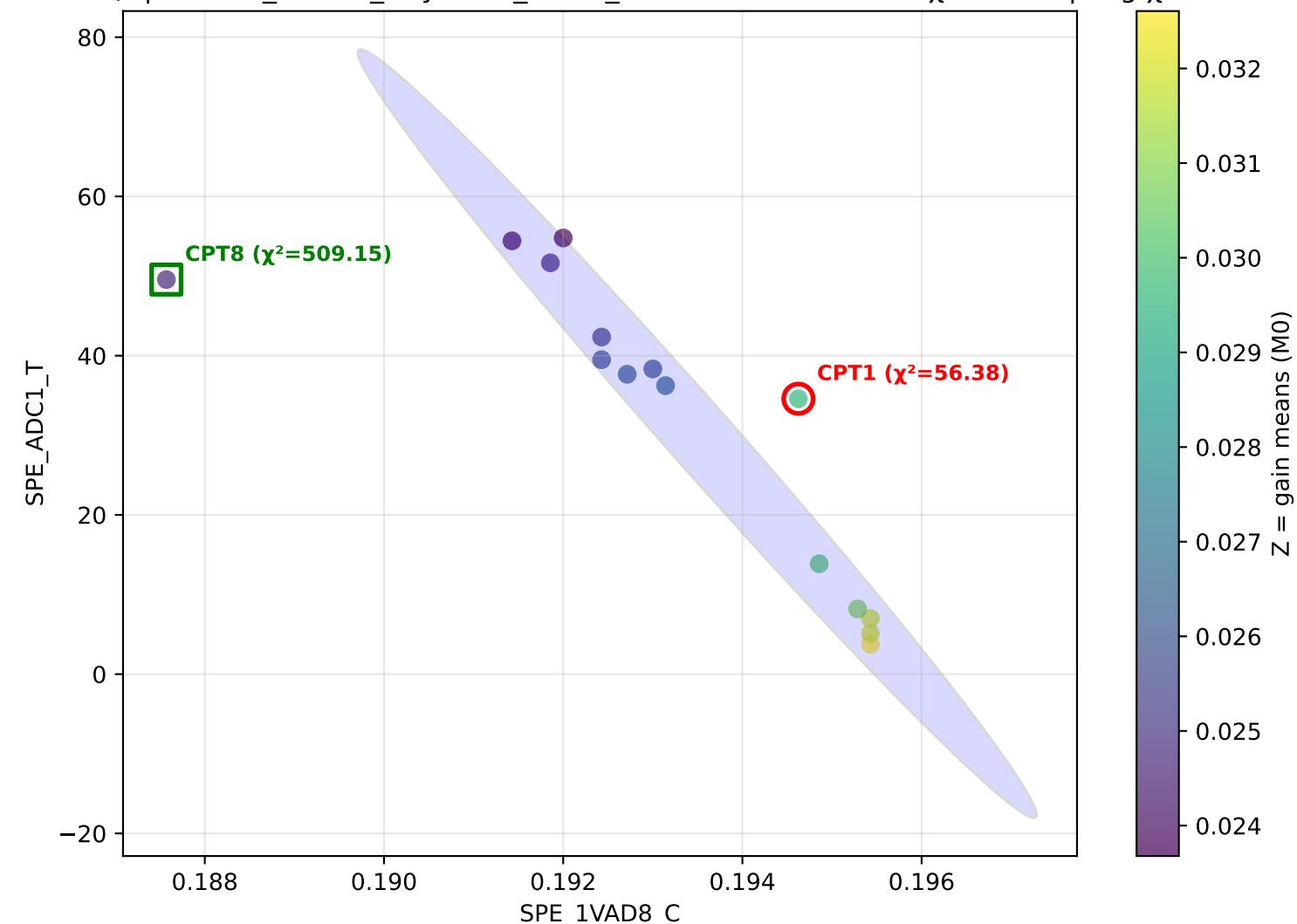




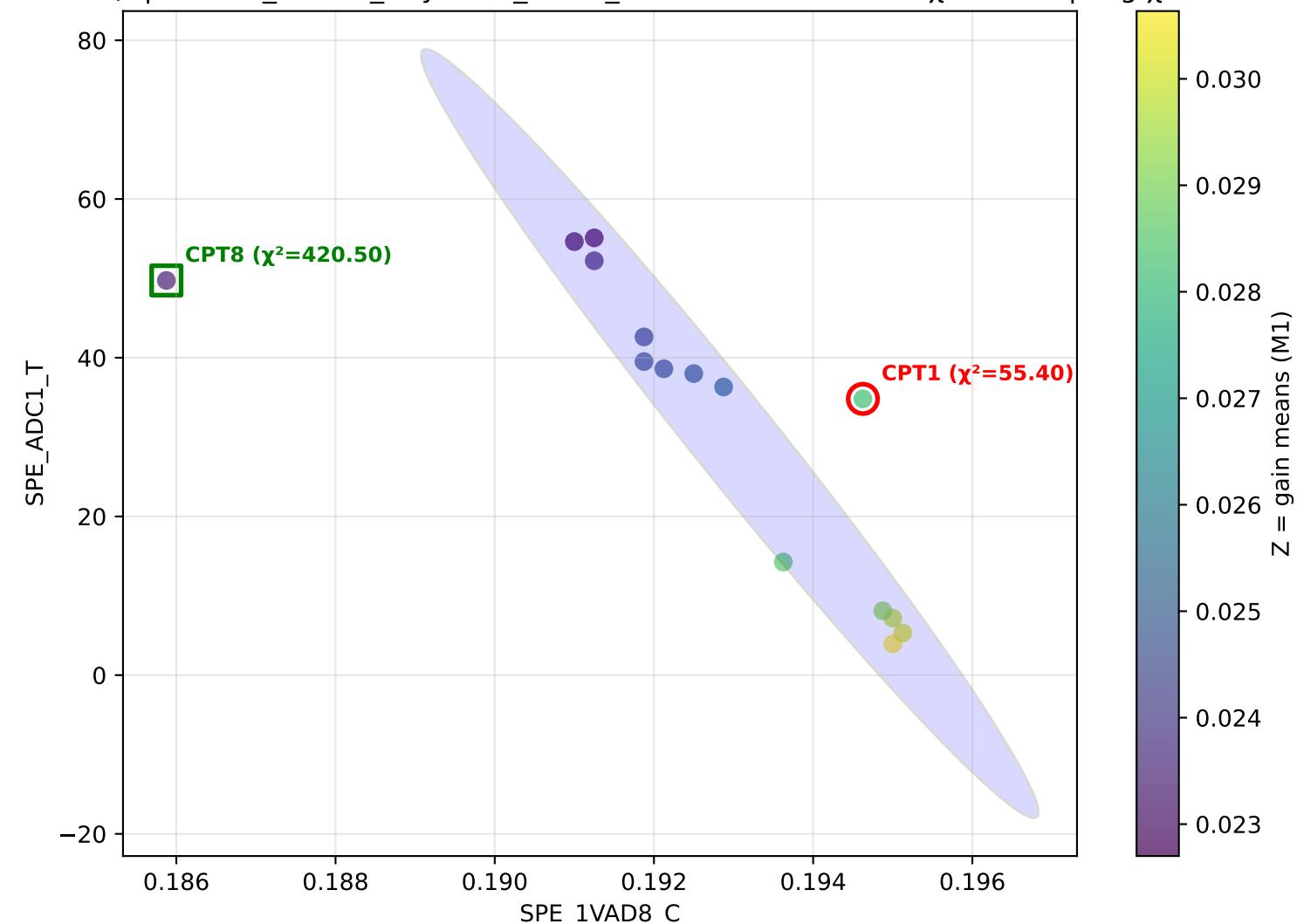




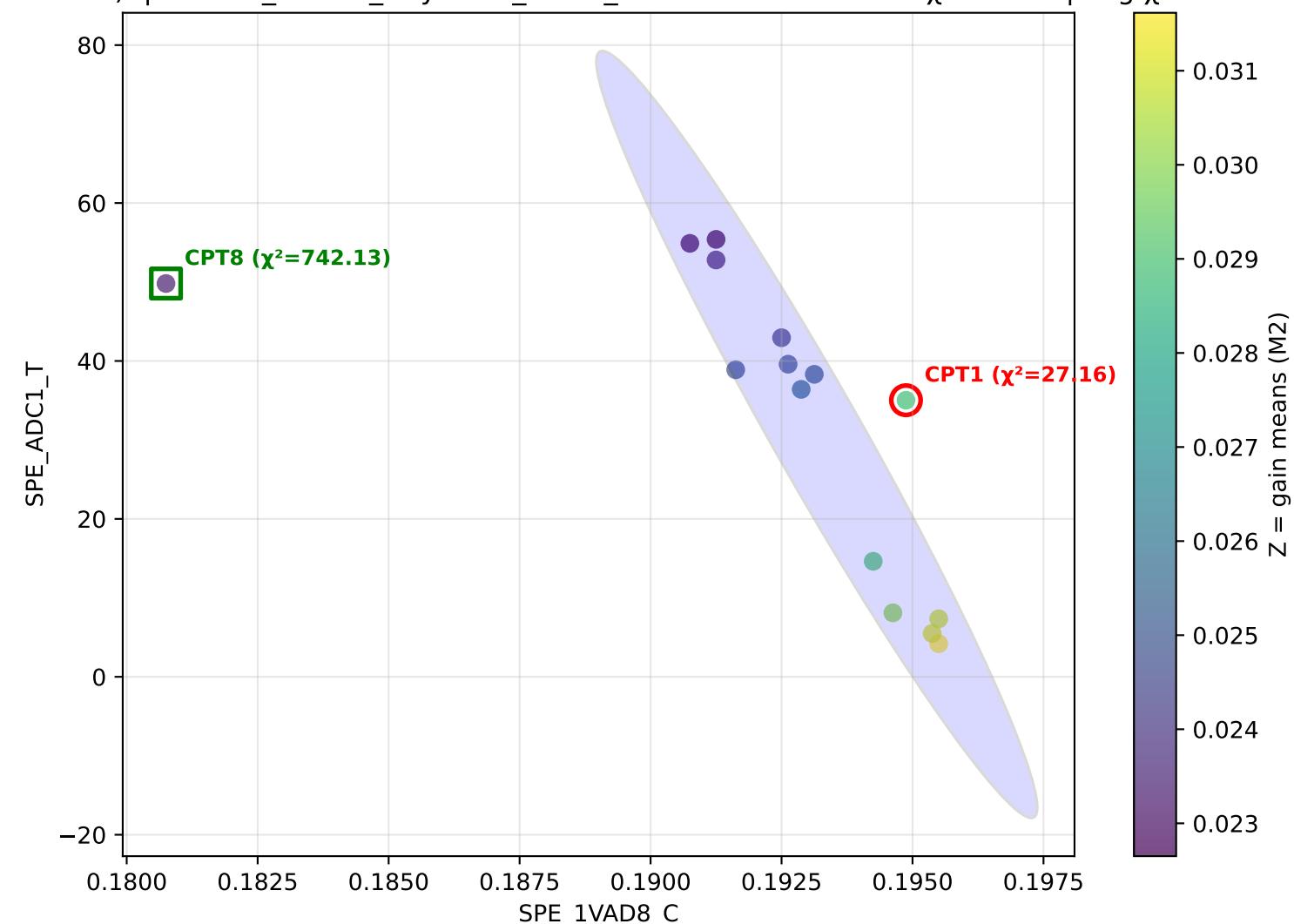
withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{SPE\_ADC1\_T}$   $z=M0$  — M0 CPT1  $\chi^2=56.38$  | avg  $\chi^2=39.33$



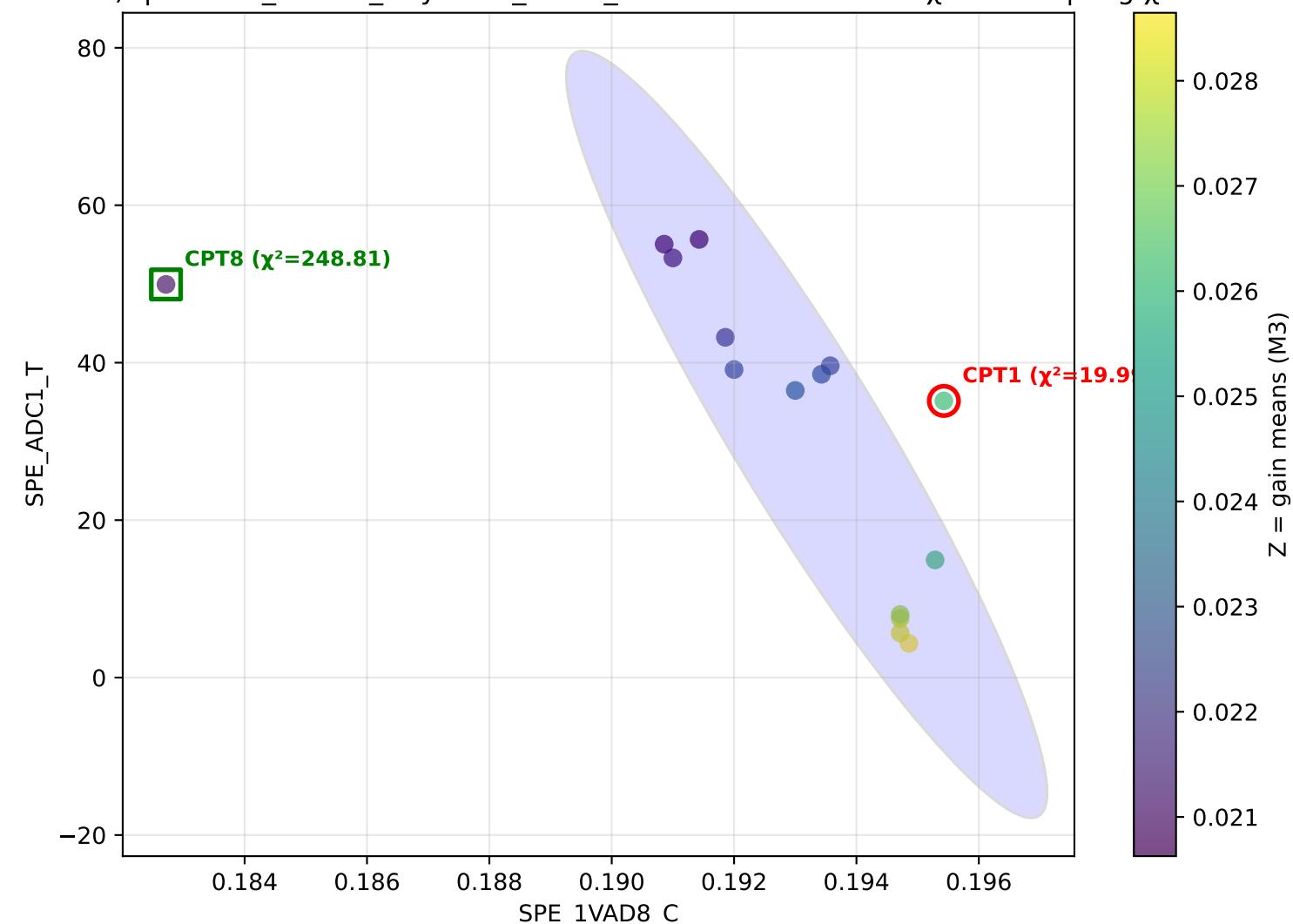
withCPT1) | x=SPE\_1VAD8\_C y=SPE\_ADC1\_T z=M1 — M1 CPT1  $\chi^2=55.40$  | avg  $\chi^2=39.33$



withCPT1) | x=SPE\_1VAD8\_C y=SPE\_ADC1\_T z=M2 — M2 CPT1  $\chi^2=27.16$  | avg  $\chi^2=39.33$



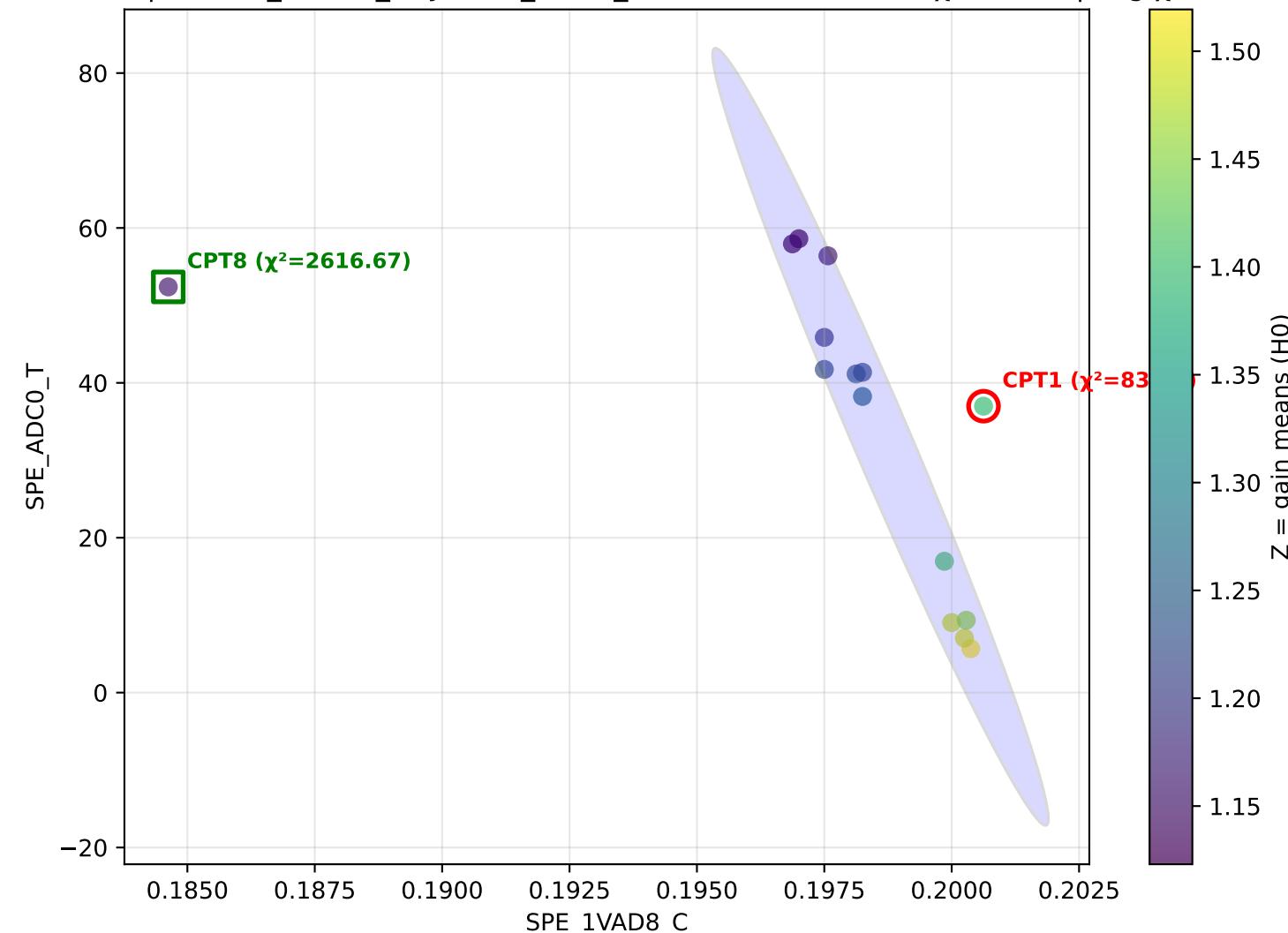
withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{SPE\_ADC1\_T}$   $z=M3$  — M3 CPT1  $\chi^2=19.99$  | avg  $\chi^2=39.33$



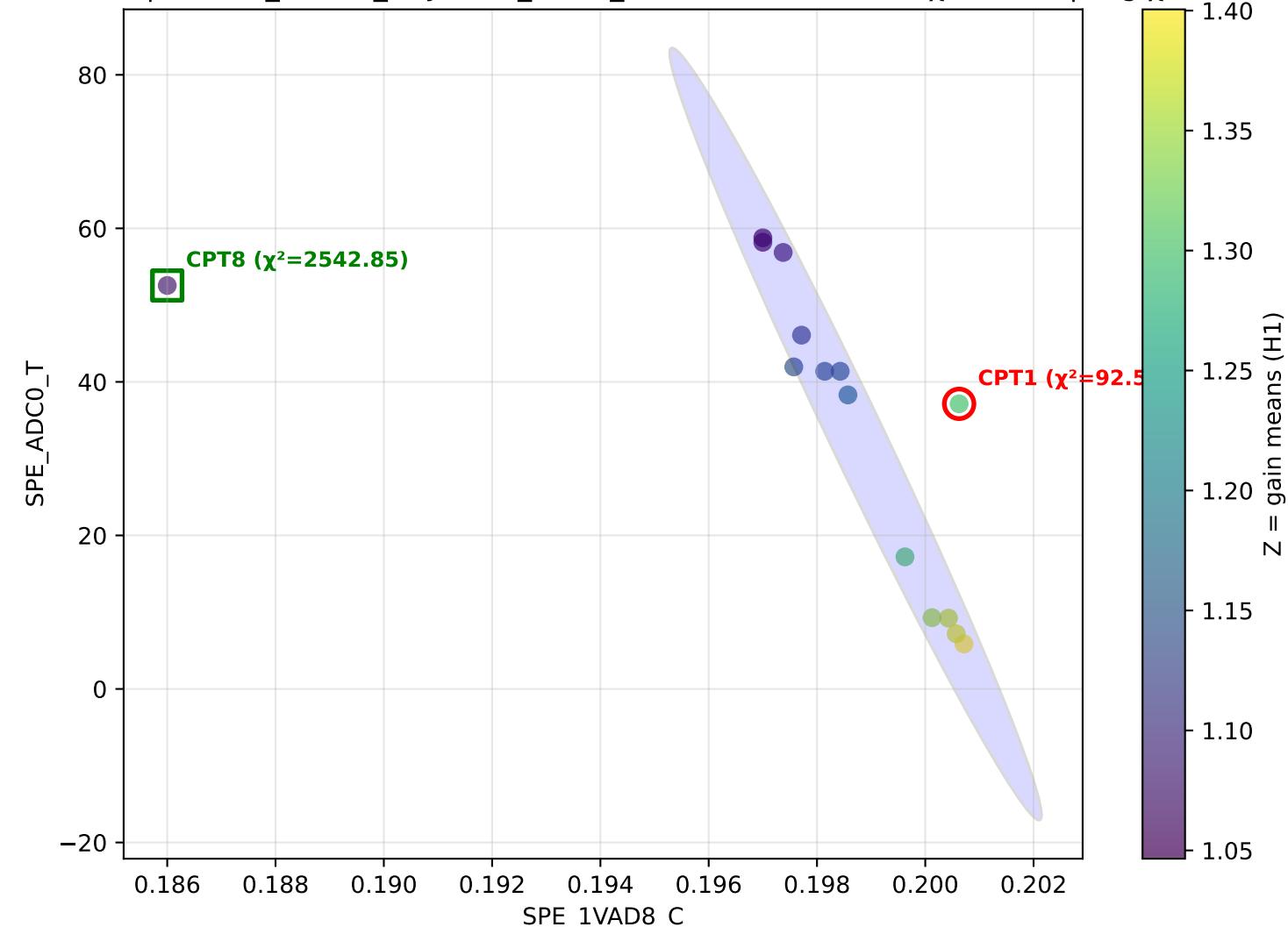
Pair: SPE\_1VAD8\_C vs SPE\_ADC0\_T

Average  $\chi^2(\text{CPT1})$  across settings: 38.53

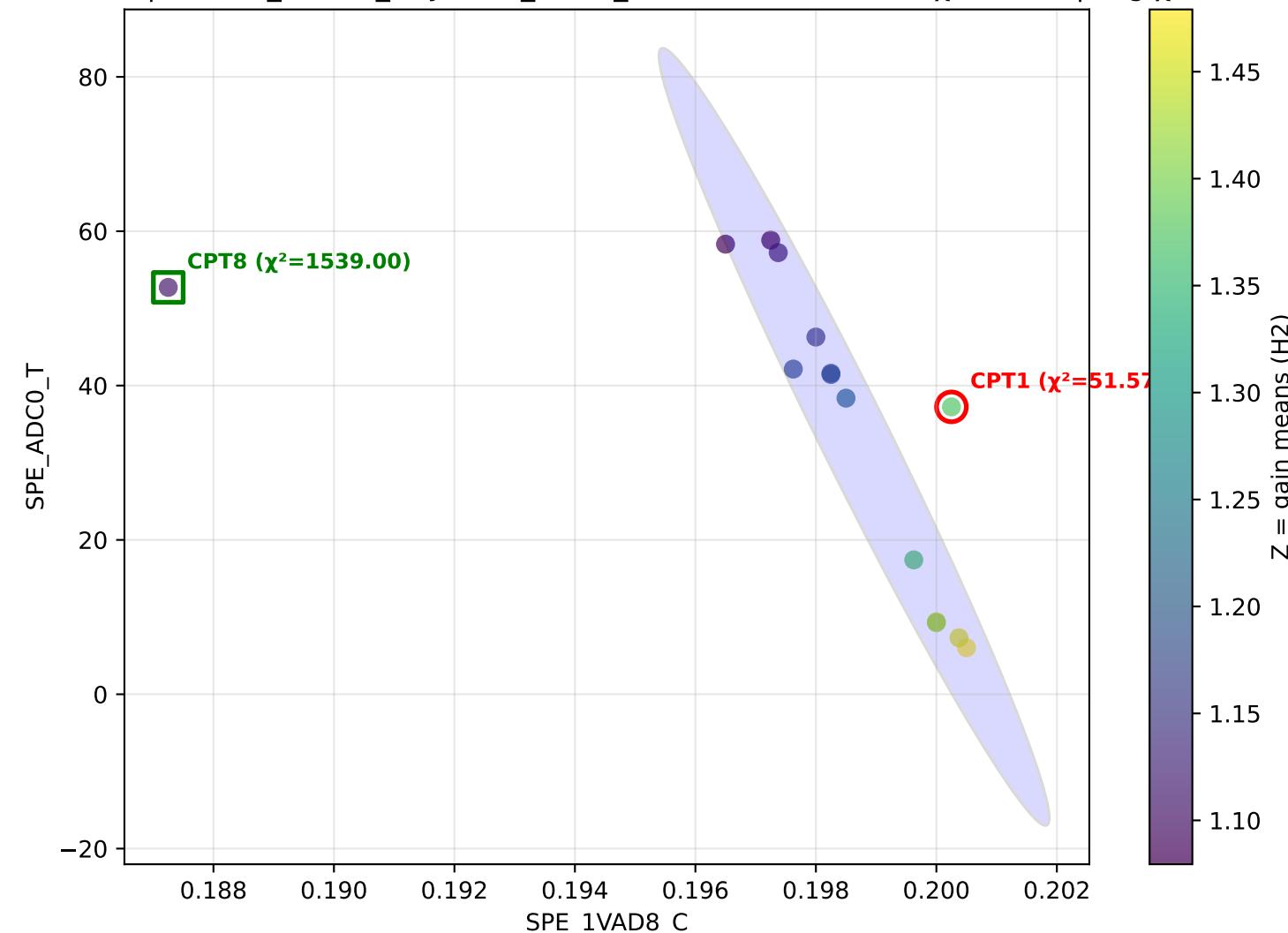
withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{SPE\_ADC0\_T}$   $z=H0$  —  $H0$  CPT1  $\chi^2=83.77$  | avg  $\chi^2=38.53$



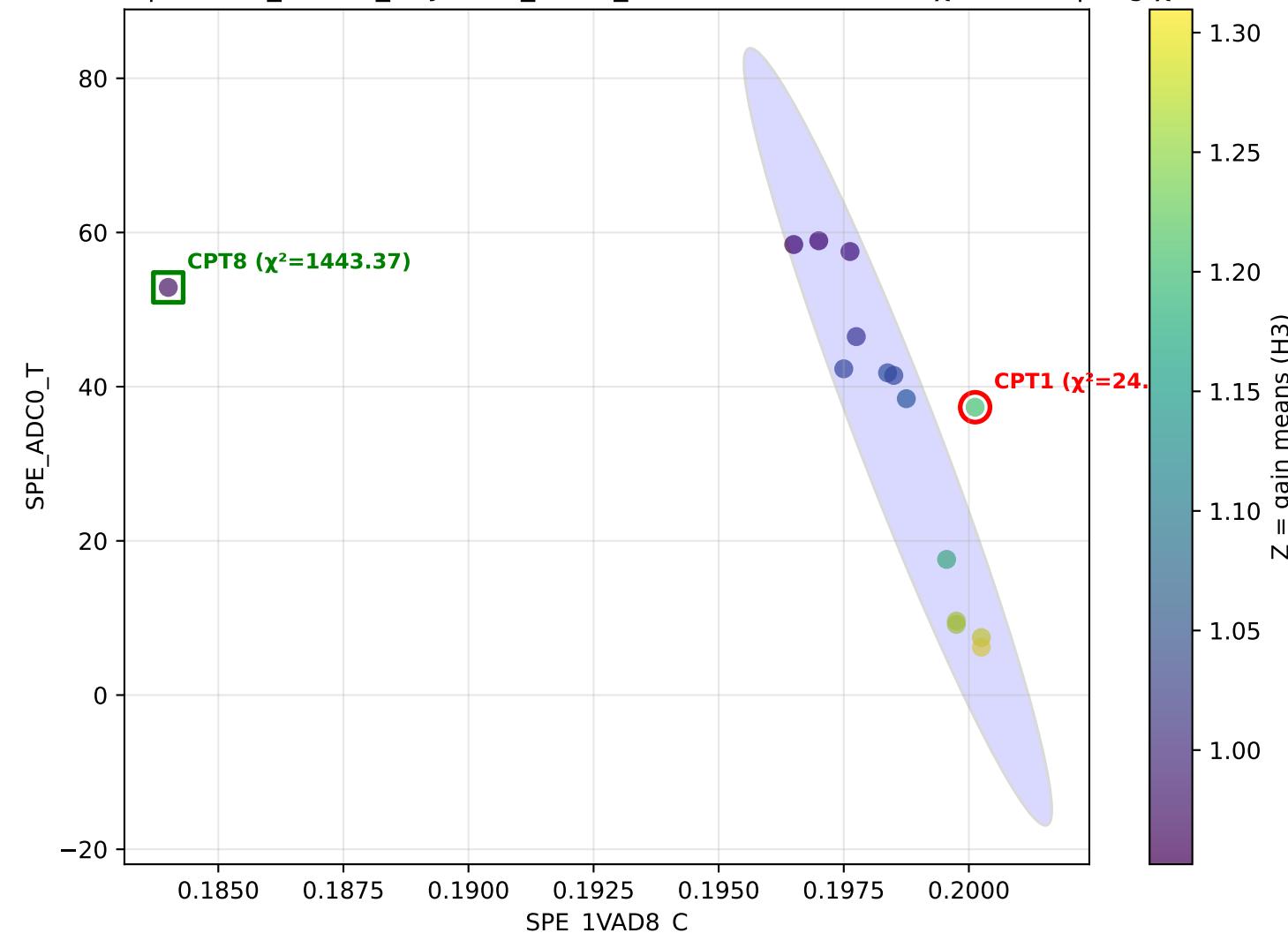
withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{SPE\_ADC0\_T}$   $z=\text{H1}$  —  $\text{H1 CPT1 } \chi^2=92.59$  | avg  $\chi^2=38.53$

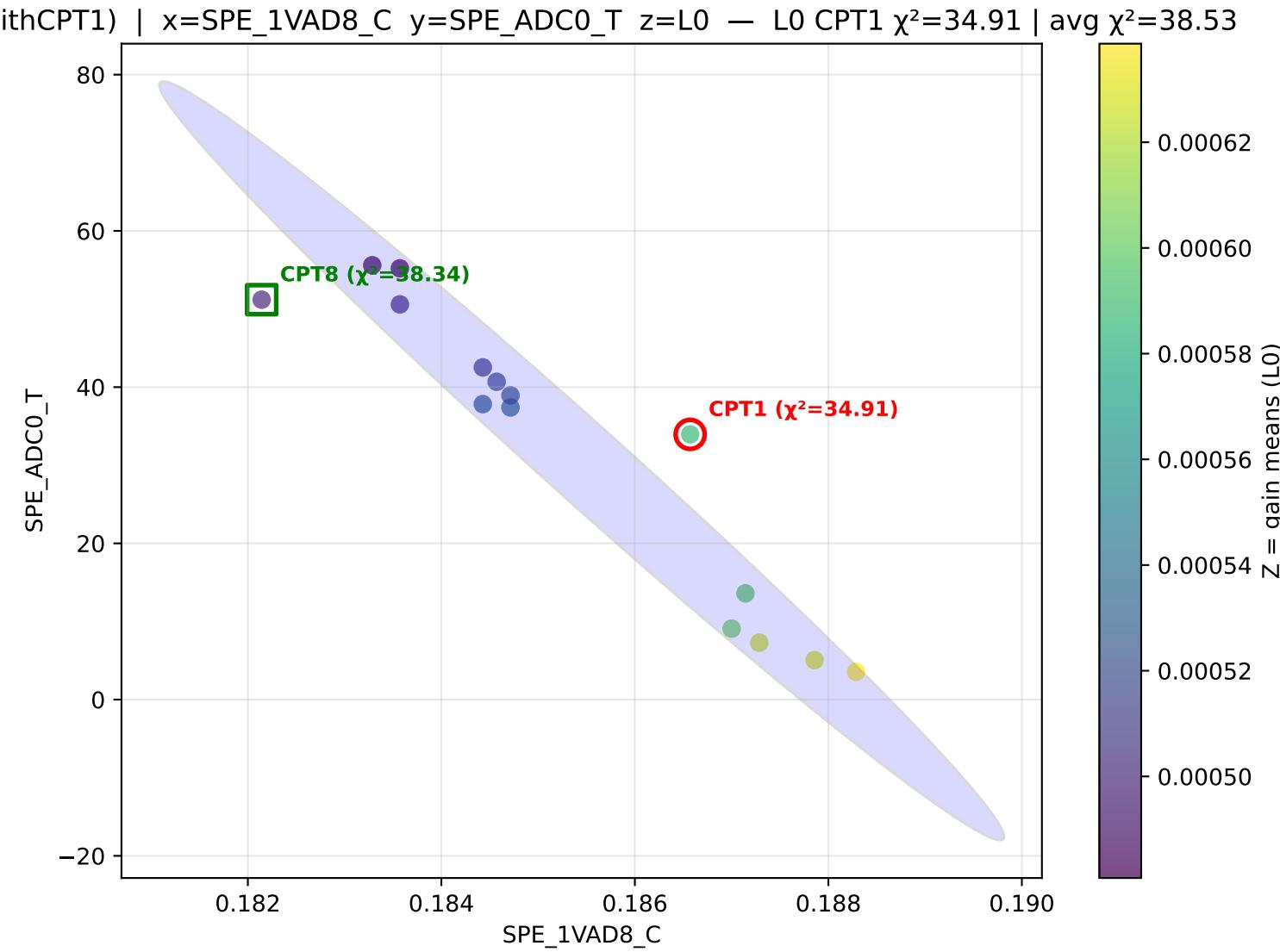


withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{SPE\_ADC0\_T}$   $z=\text{H2}$  — H2 CPT1  $\chi^2=51.57$  | avg  $\chi^2=38.53$

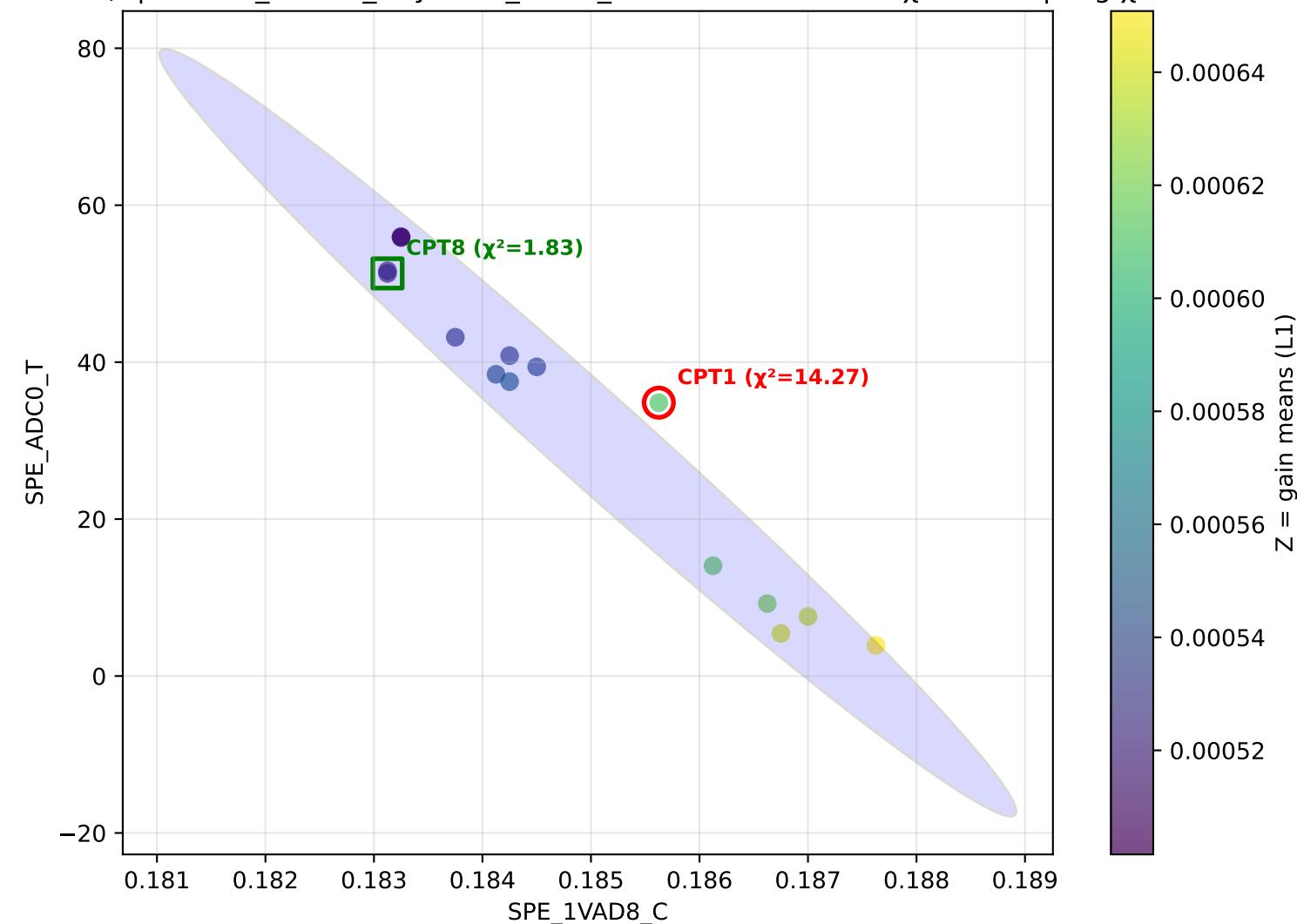


withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{SPE\_ADC0\_T}$   $z=\text{H3}$  — H3 CPT1  $\chi^2=24.99$  | avg  $\chi^2=38.53$

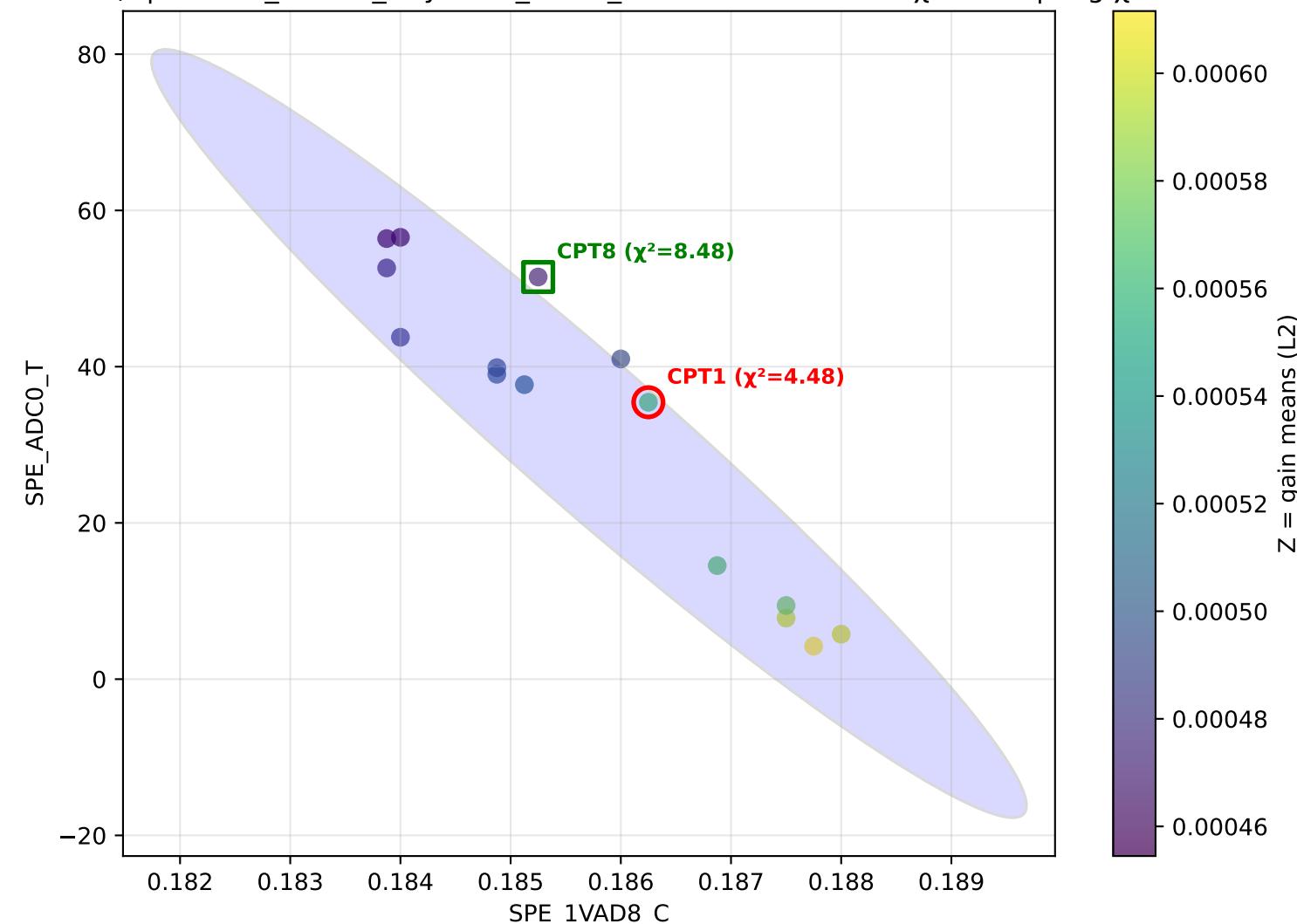


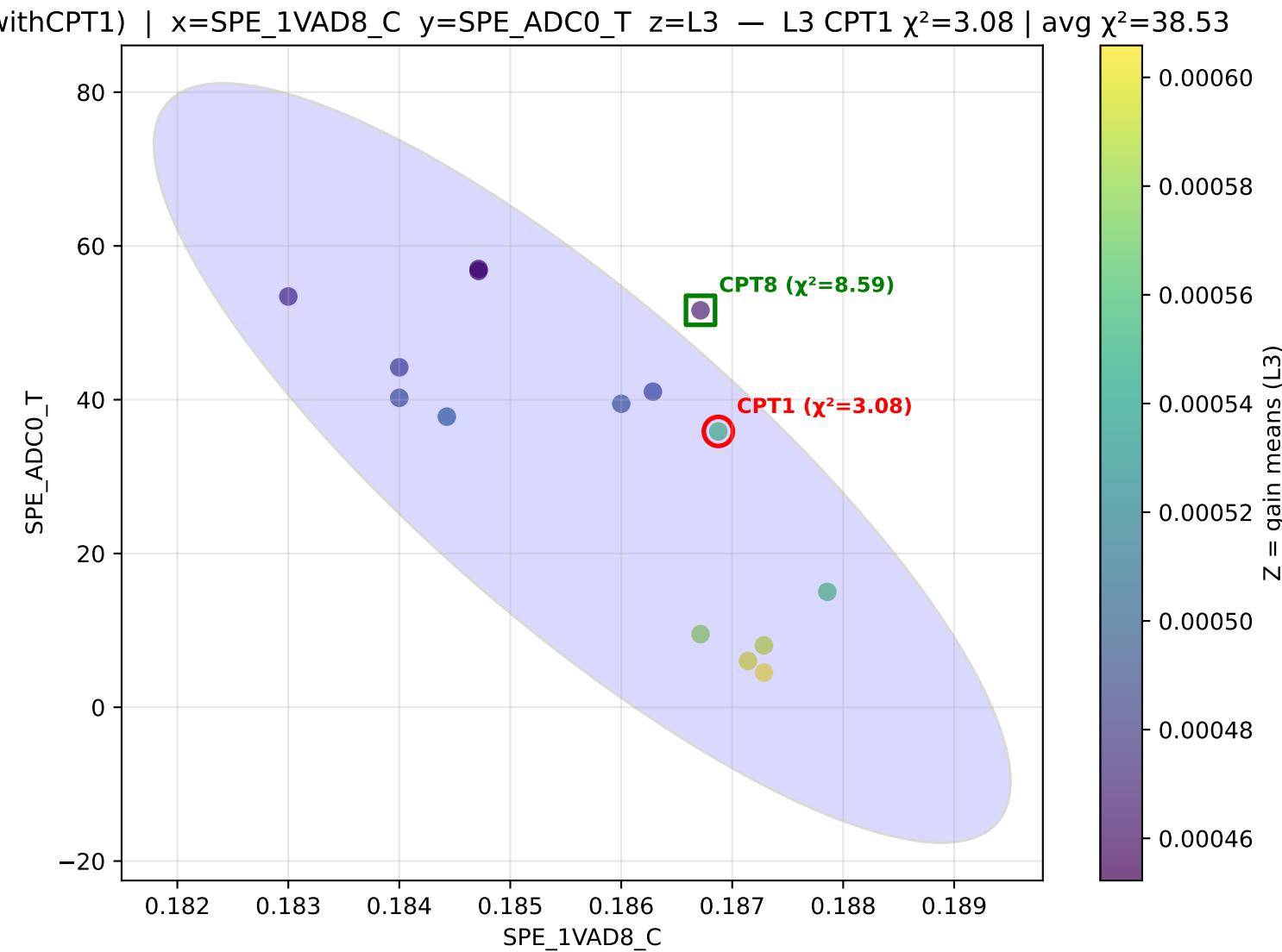


ithCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{SPE\_ADC0\_T}$   $z=L1$  — L1 CPT1  $\chi^2=14.27$  | avg  $\chi^2=38.53$

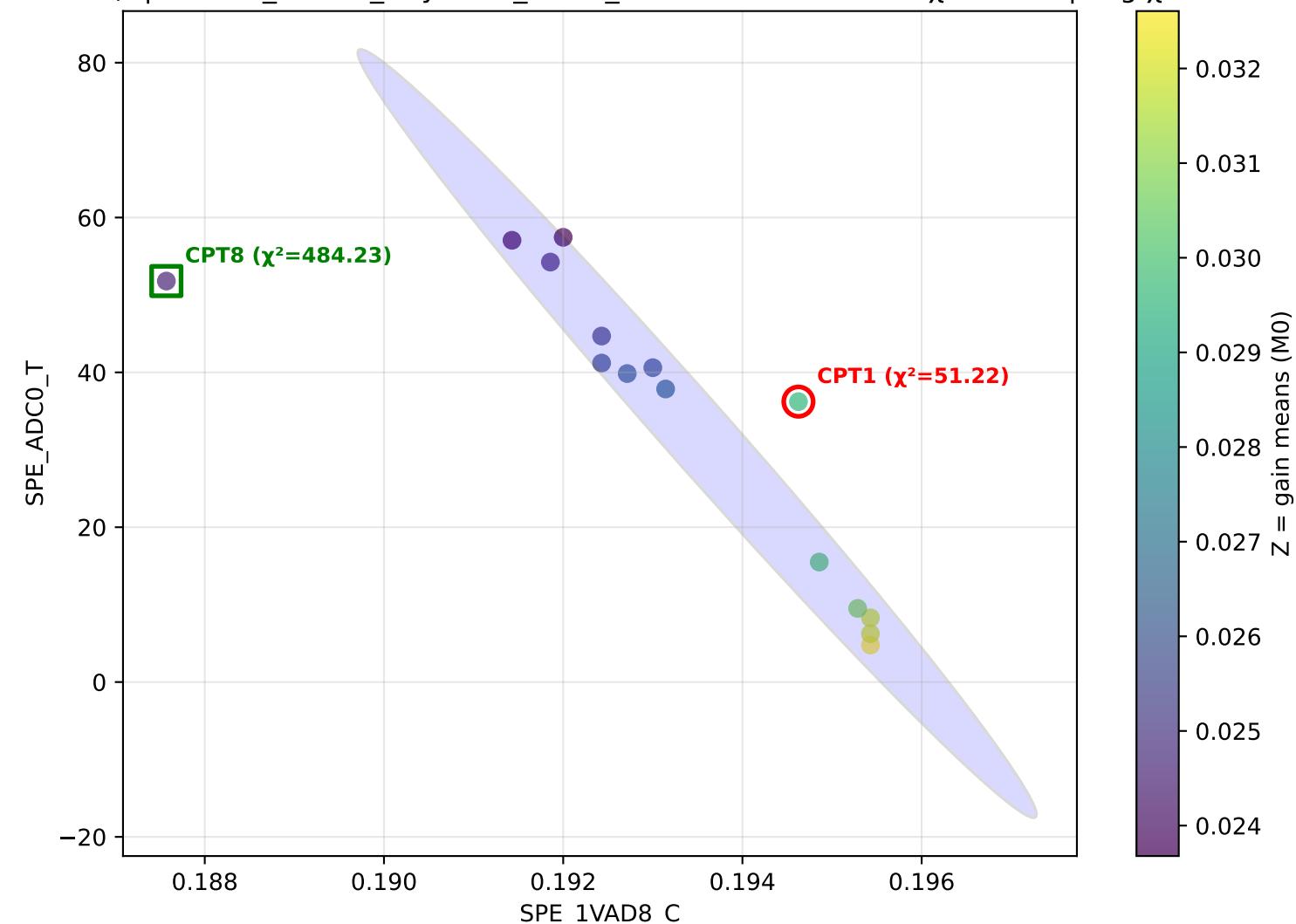


withCPT1) | x=SPE\_1VAD8\_C y=SPE\_ADC0\_T z=L2 — L2 CPT1  $\chi^2=4.48$  | avg  $\chi^2=38.53$

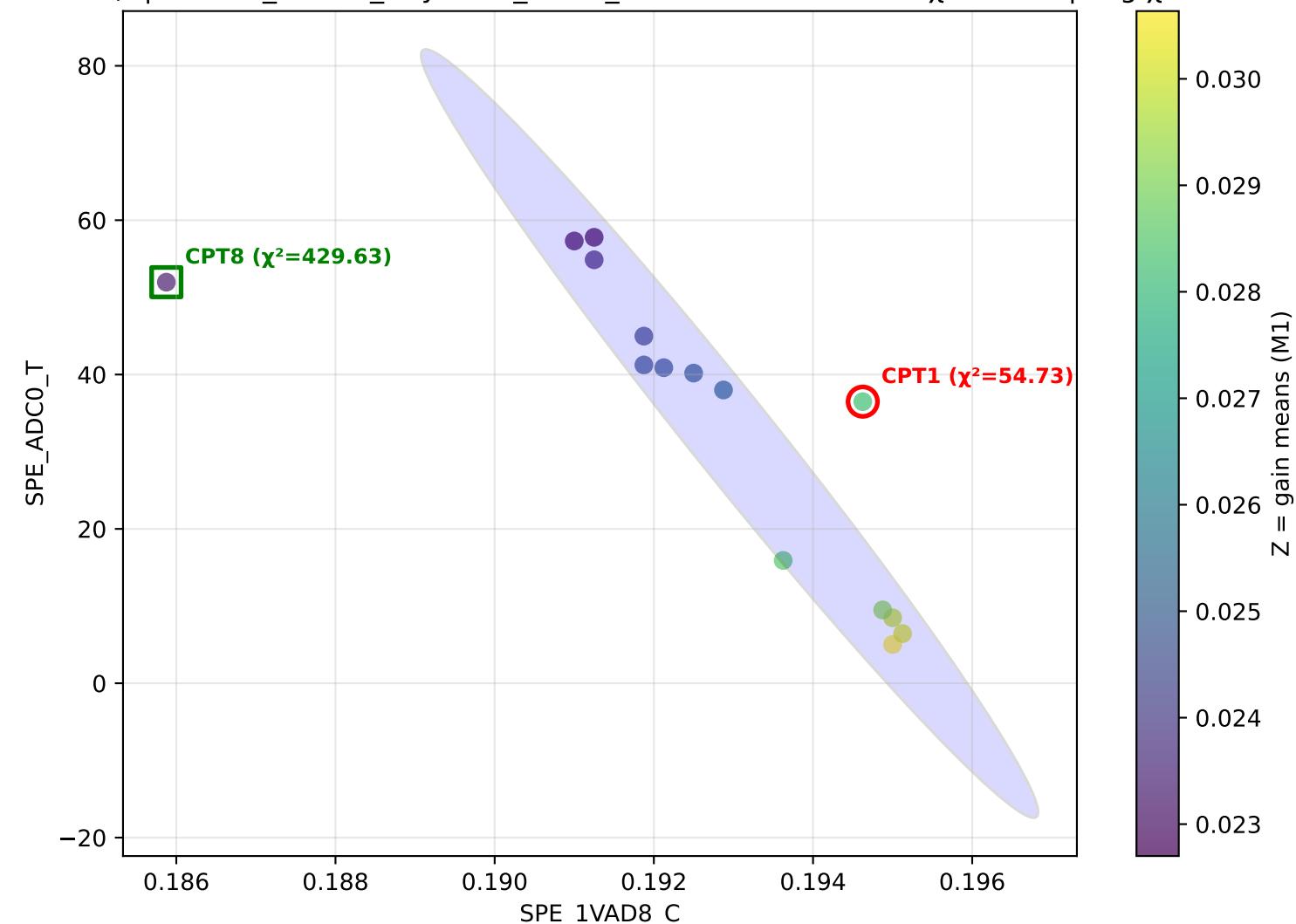




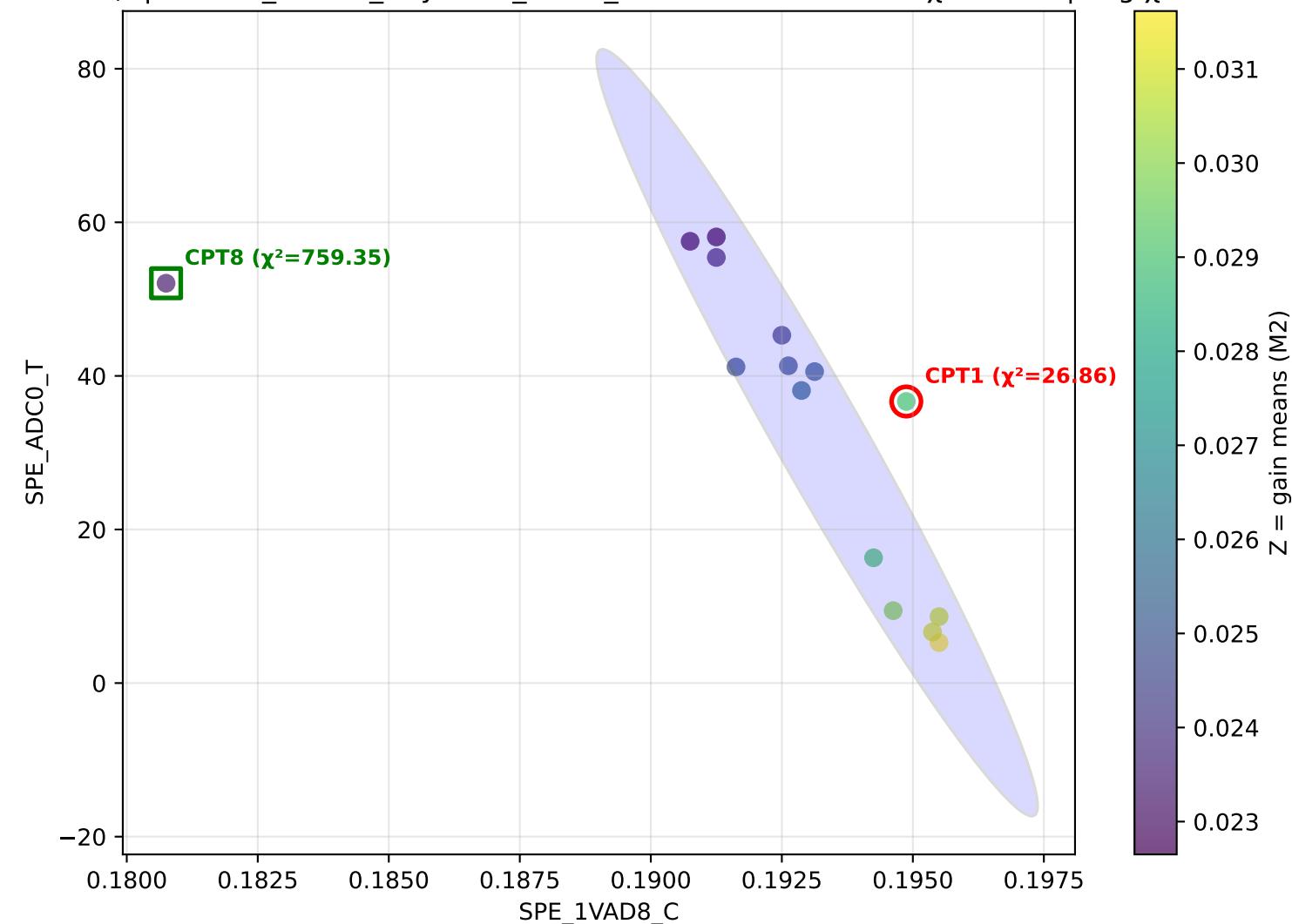
withCPT1) | x=SPE\_1VAD8\_C y=SPE\_ADC0\_T z=M0 — M0 CPT1  $\chi^2=51.22$  | avg  $\chi^2=38.53$



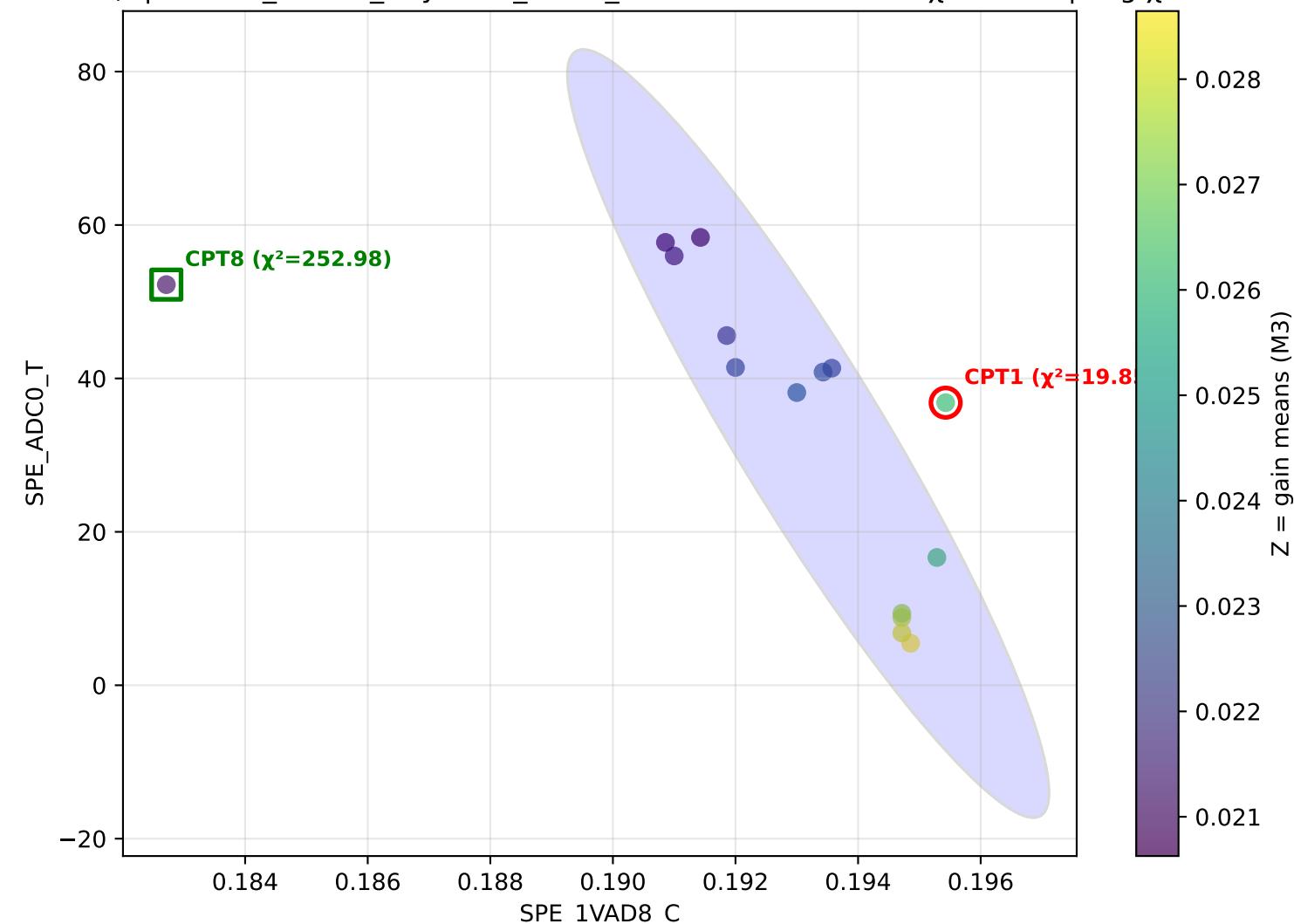
withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{SPE\_ADC0\_T}$   $z=M1$  — M1 CPT1  $\chi^2=54.73$  | avg  $\chi^2=38.53$



withCPT1) | x=SPE\_1VAD8\_C y=SPE\_ADC0\_T z=M2 — M2 CPT1  $\chi^2=26.86$  | avg  $\chi^2=38.53$



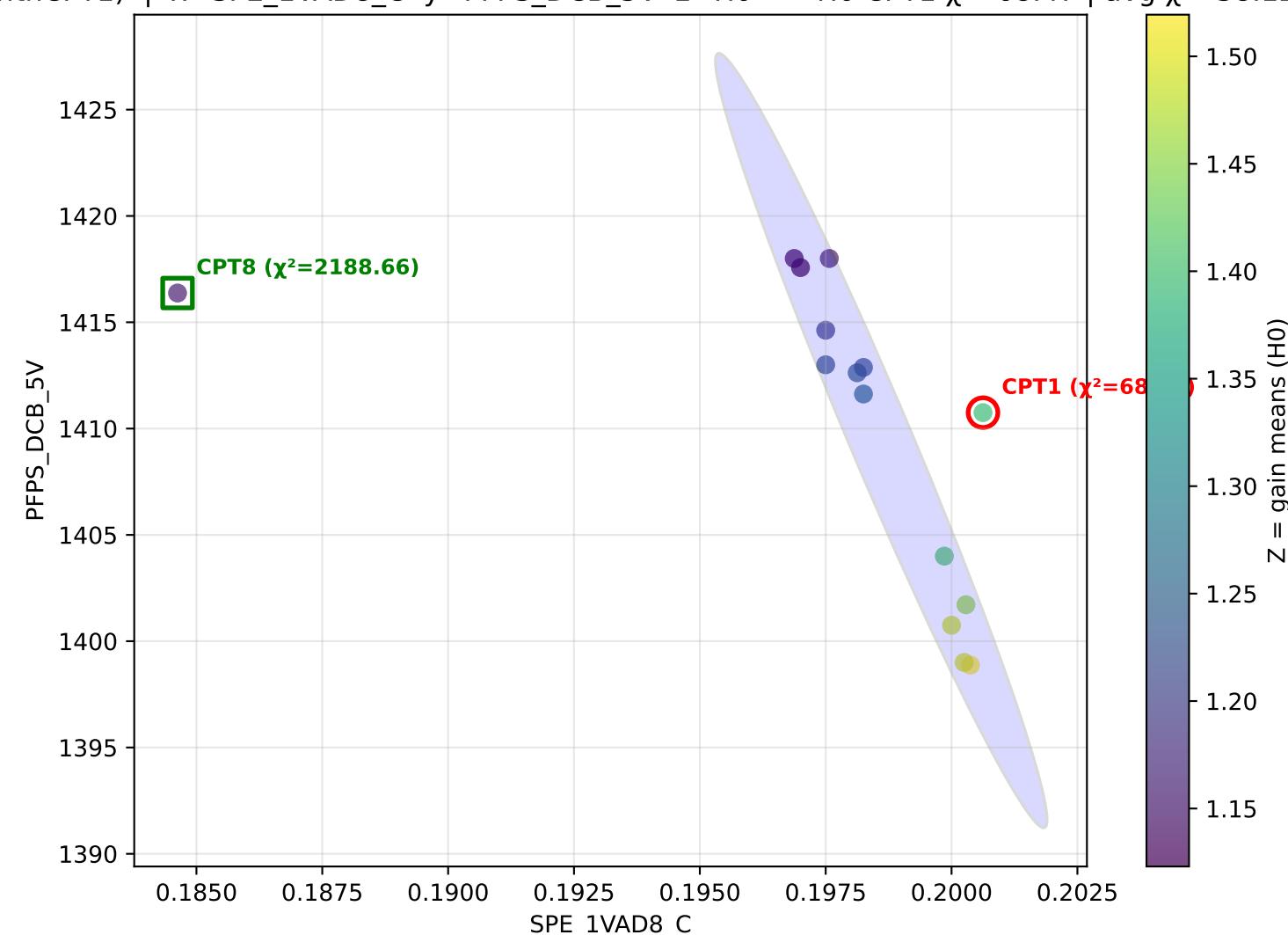
withCPT1) | x=SPE\_1VAD8\_C y=SPE\_ADC0\_T z=M3 — M3 CPT1  $\chi^2=19.85$  | avg  $\chi^2=38.53$

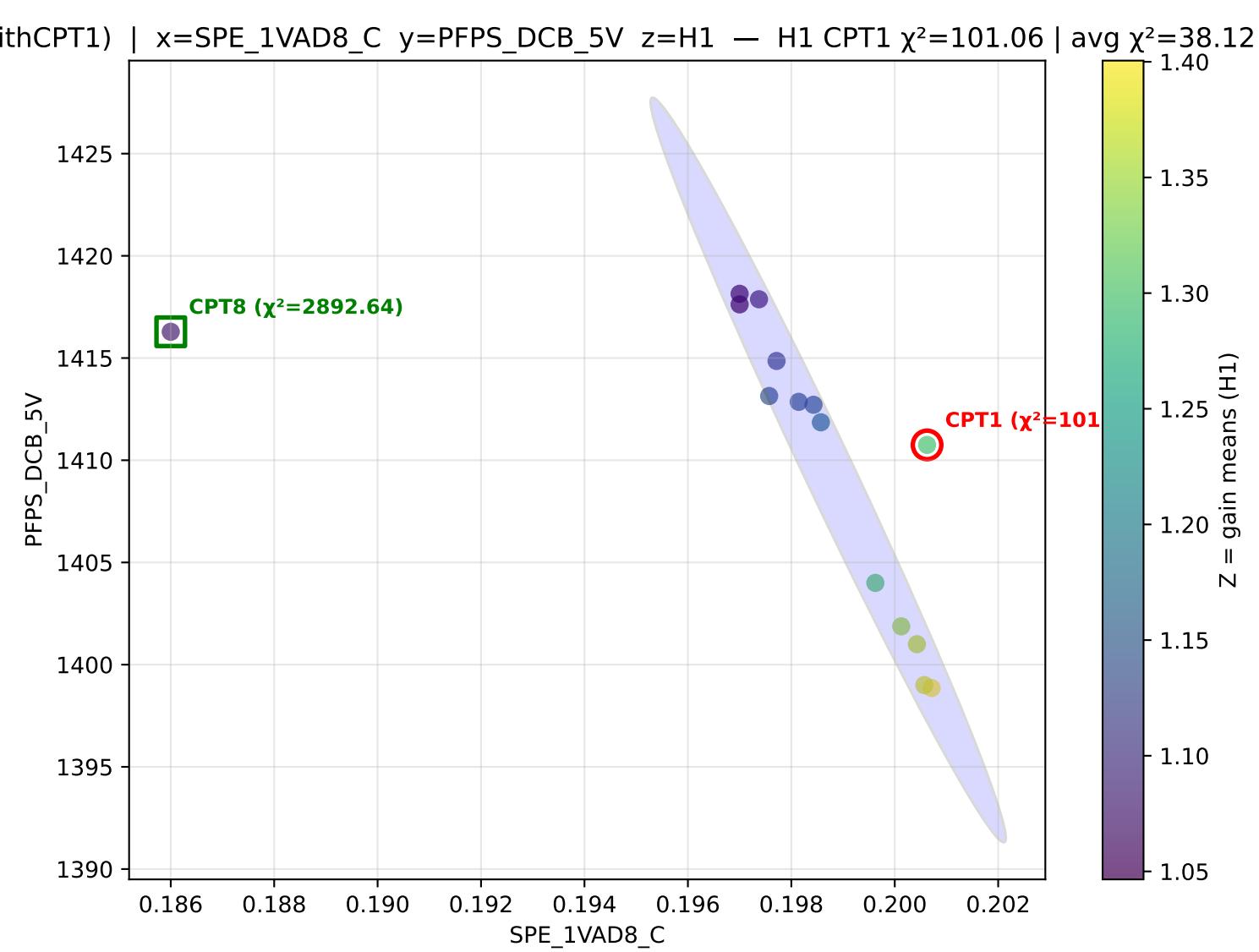


Pair: SPE\_1VAD8\_C vs PFPS\_DCB\_5V

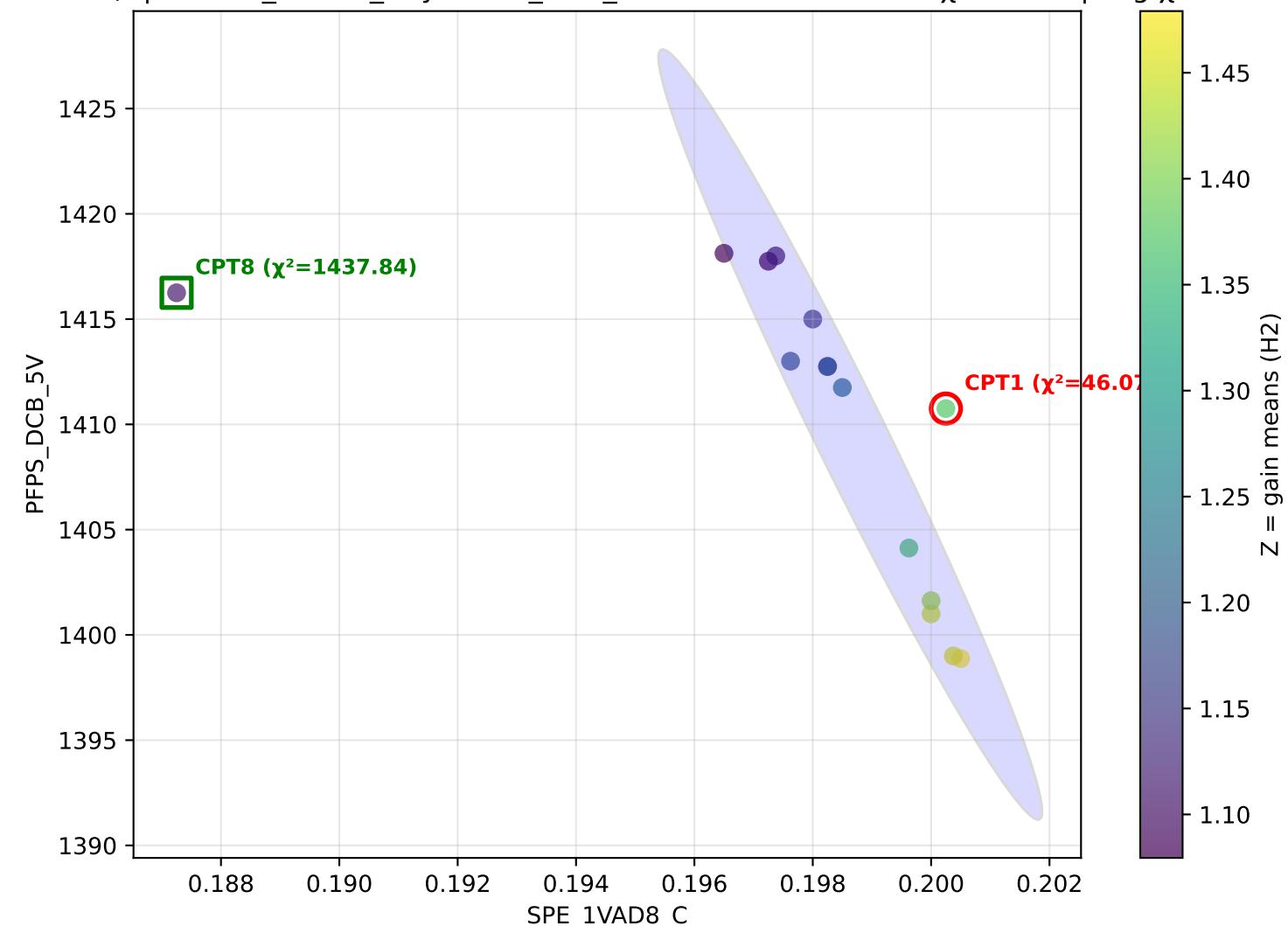
Average  $\chi^2$ (CPT1) across settings: 38.12

withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_DCB\_5V}$   $z=\text{H0}$  — H0 CPT1  $\chi^2=68.47$  | avg  $\chi^2=38.12$

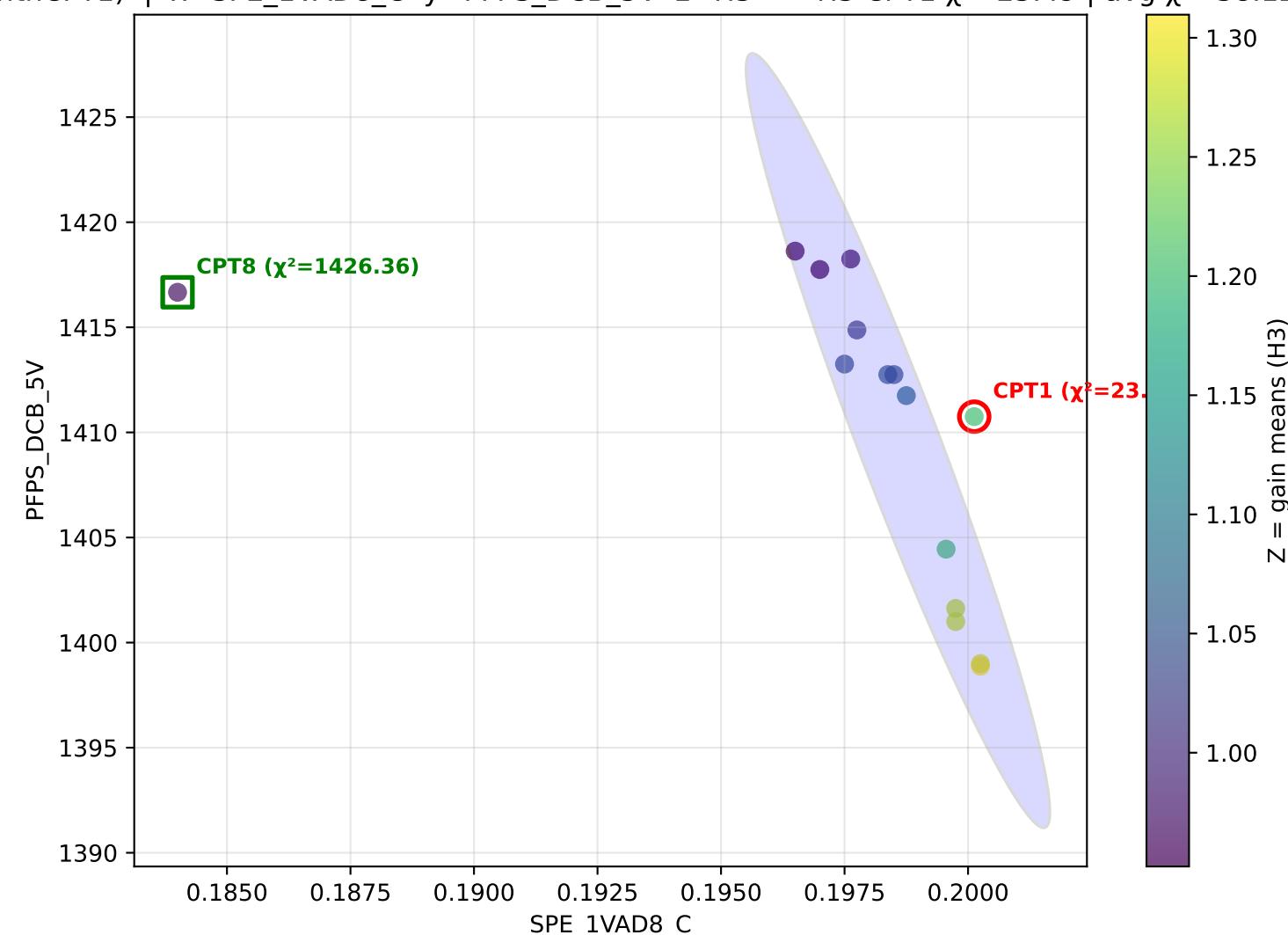




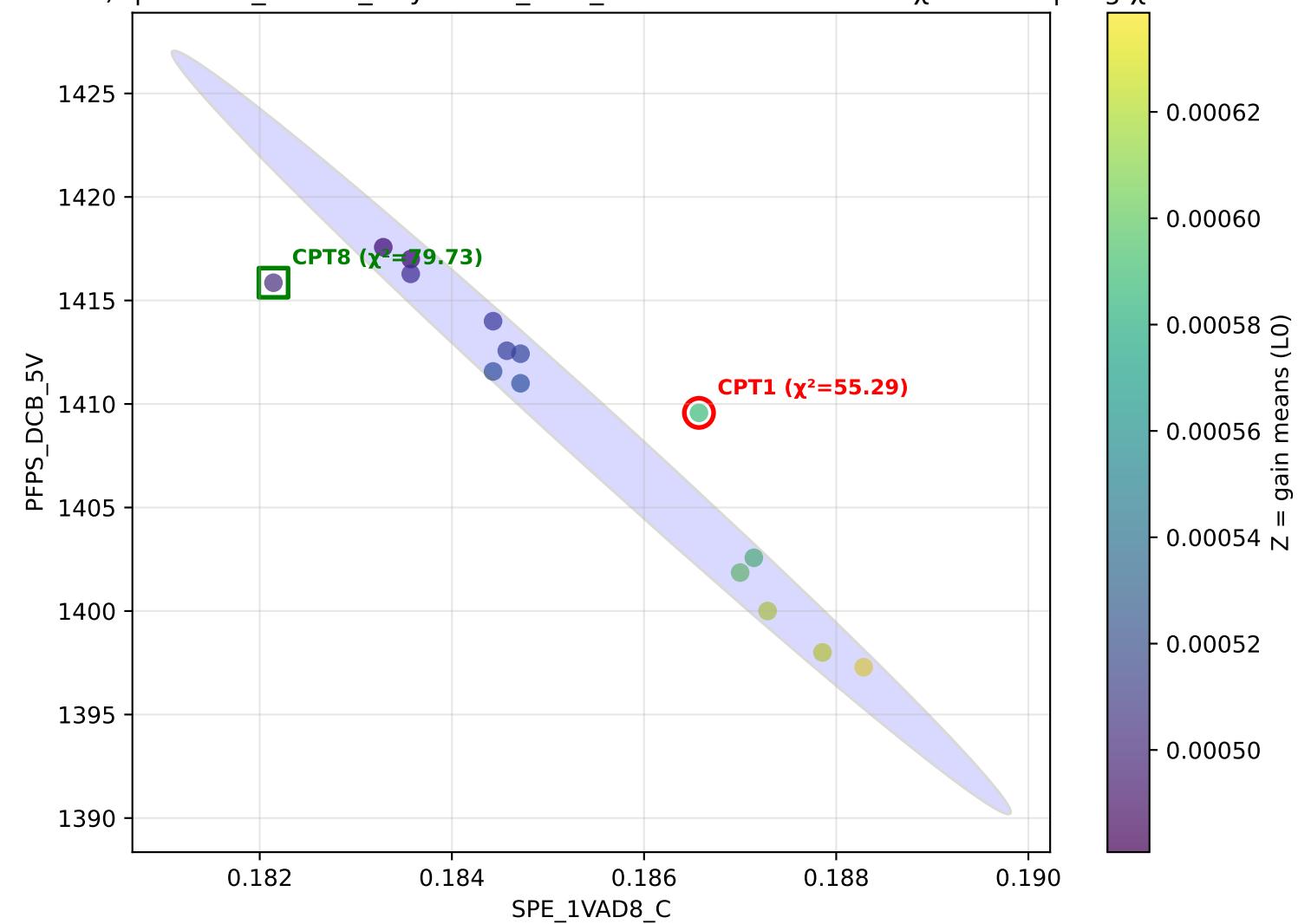
withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_DCB\_5V}$   $z=\text{H2}$  — H2 CPT1  $\chi^2=46.07$  | avg  $\chi^2=38.12$



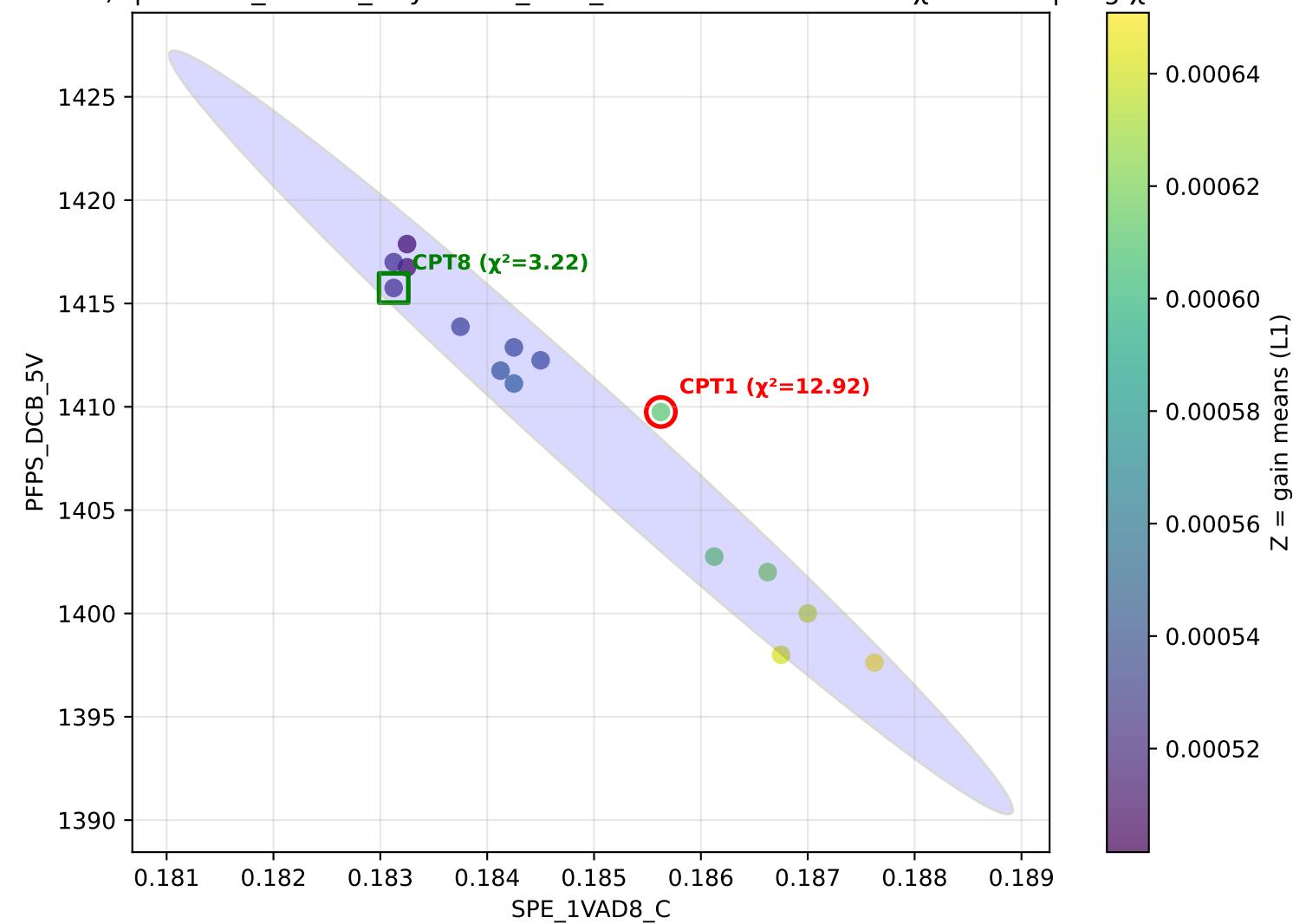
withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_DCB\_5V}$   $z=\text{H3}$  — H3 CPT1  $\chi^2=23.49$  | avg  $\chi^2=38.12$

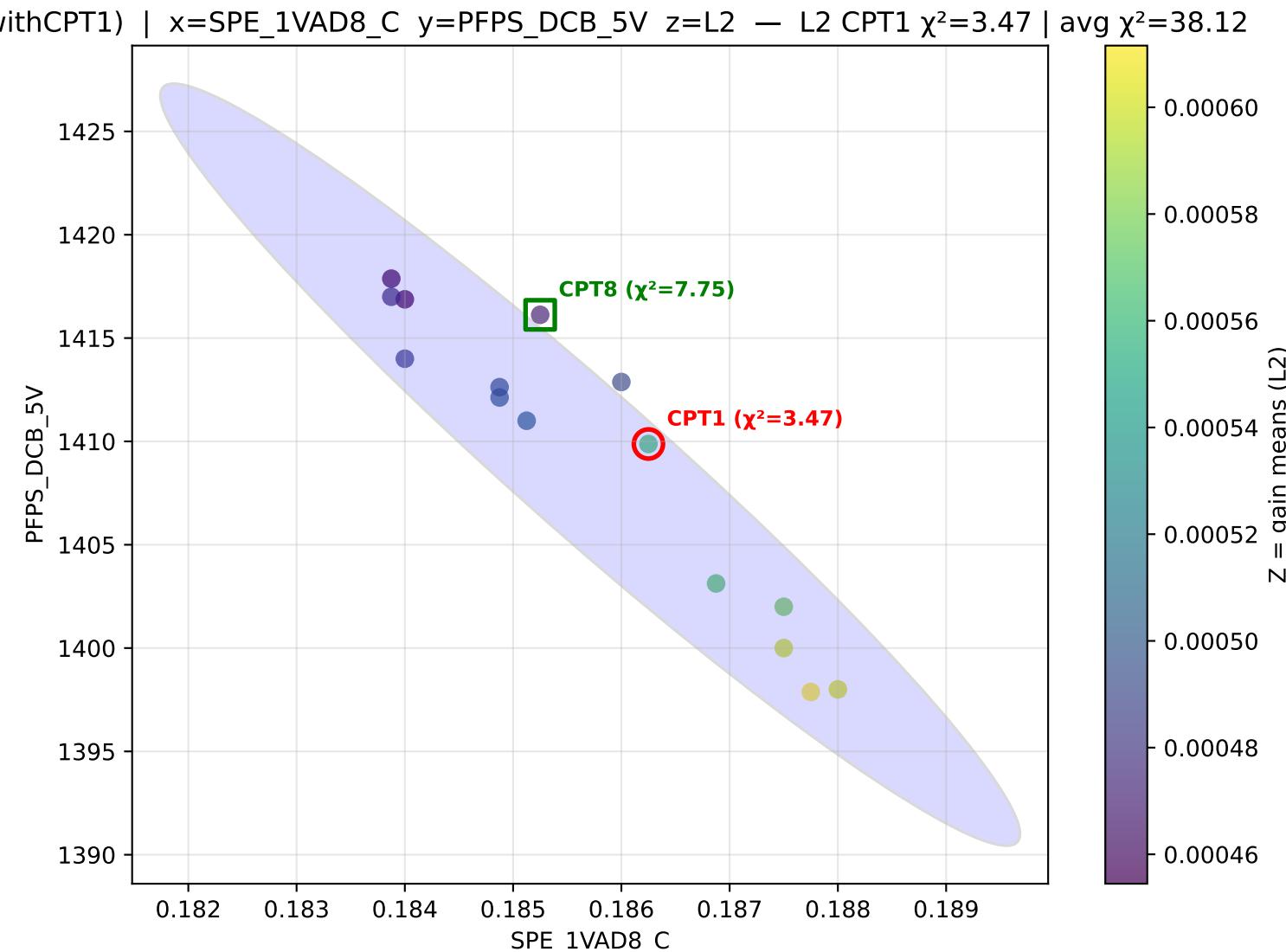


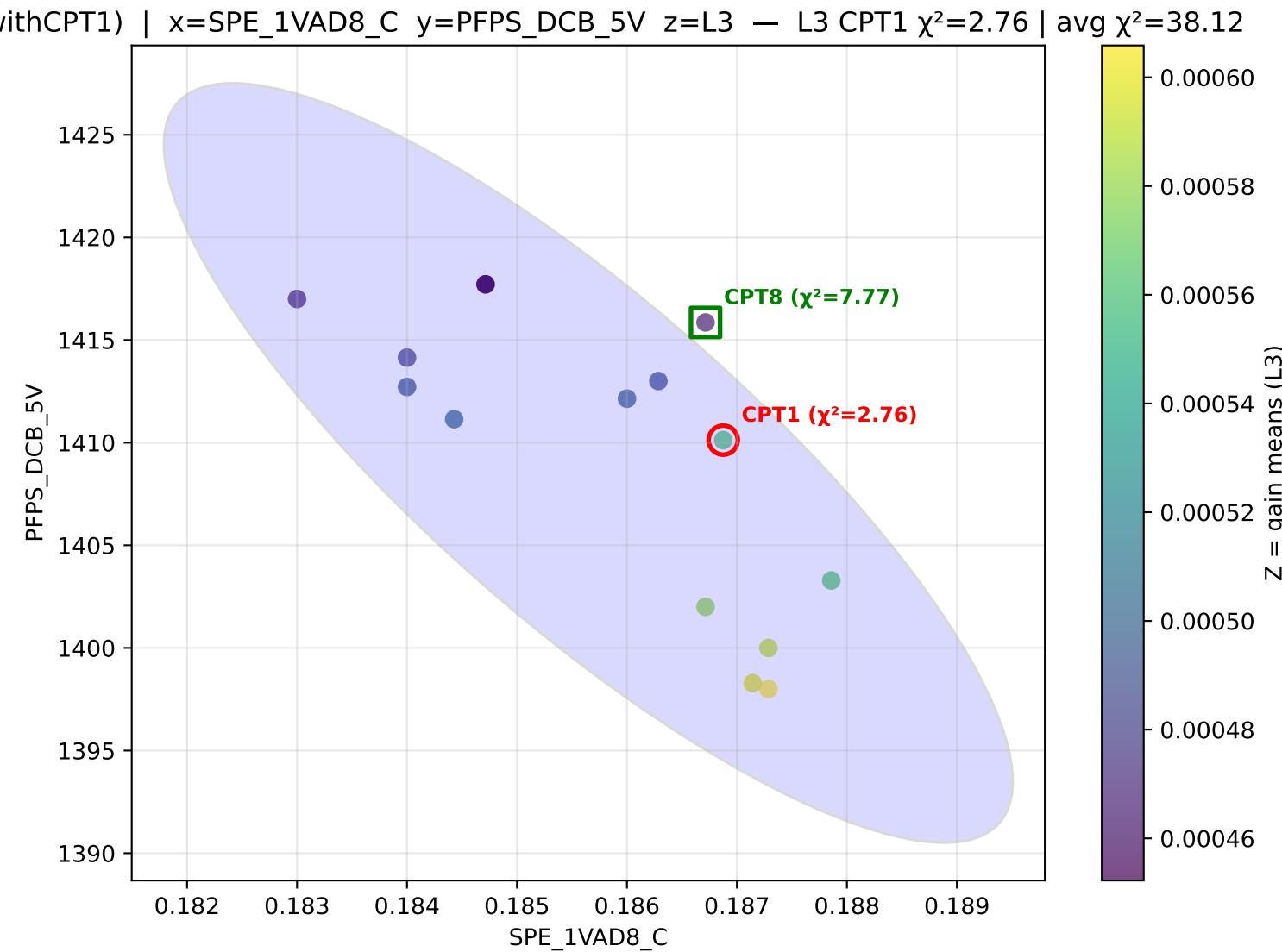
ithCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_DCB\_5V}$   $z=L0$  —  $L0 \text{ CPT1 } \chi^2=55.29$  | avg  $\chi^2=38.12$



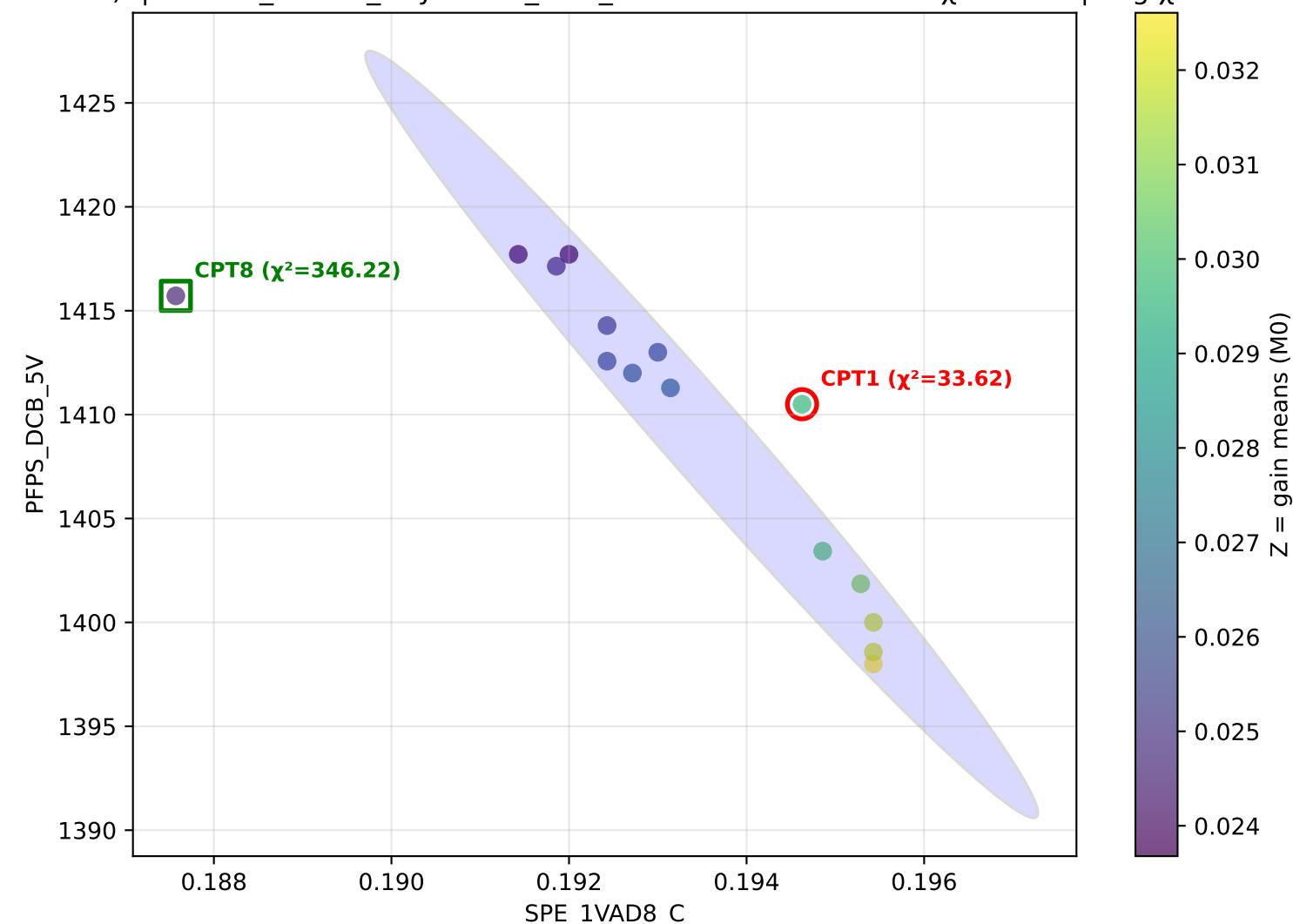
ithCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_DCB\_5V}$   $z=L1$  — L1 CPT1  $\chi^2=12.92$  | avg  $\chi^2=38.12$



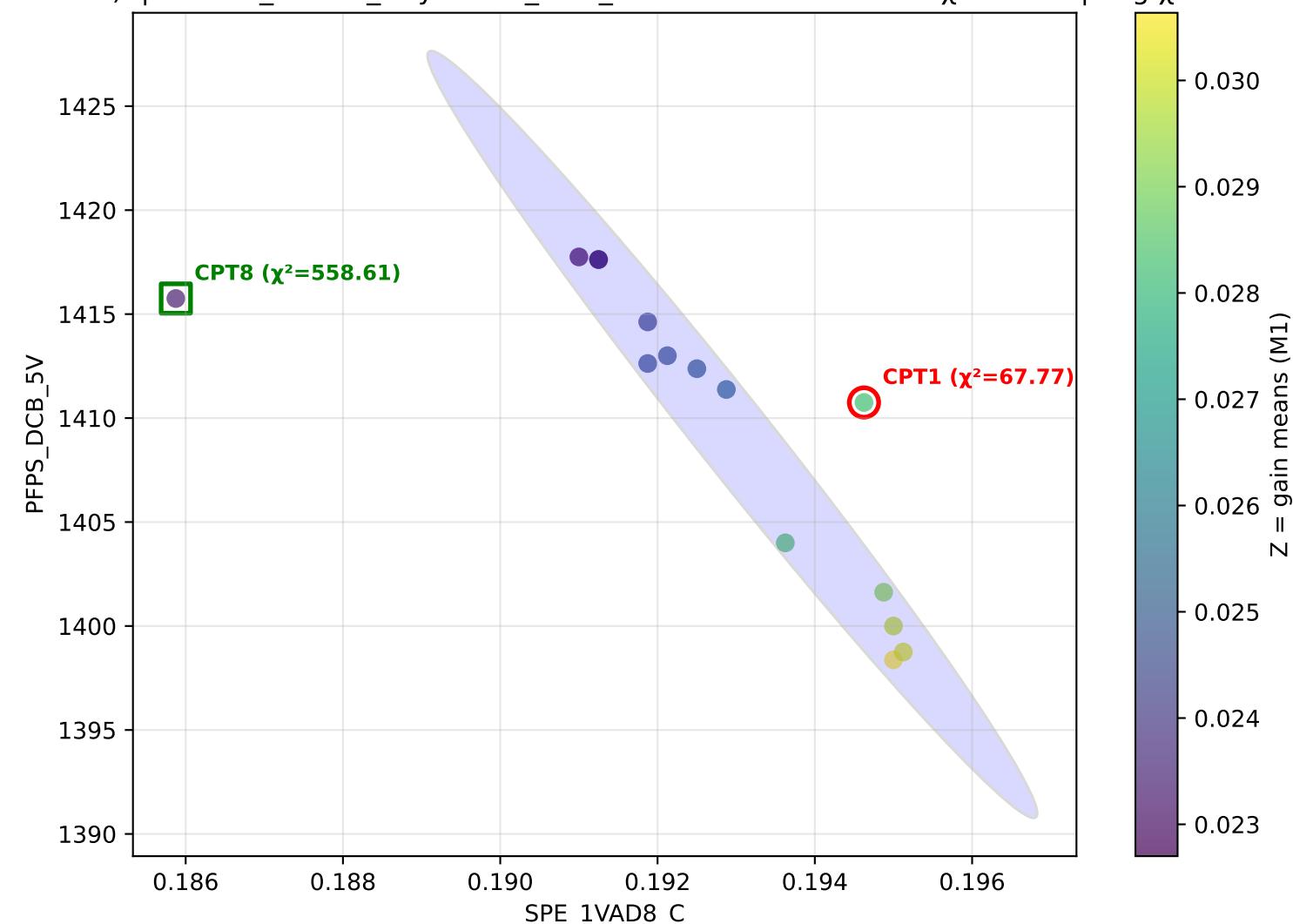




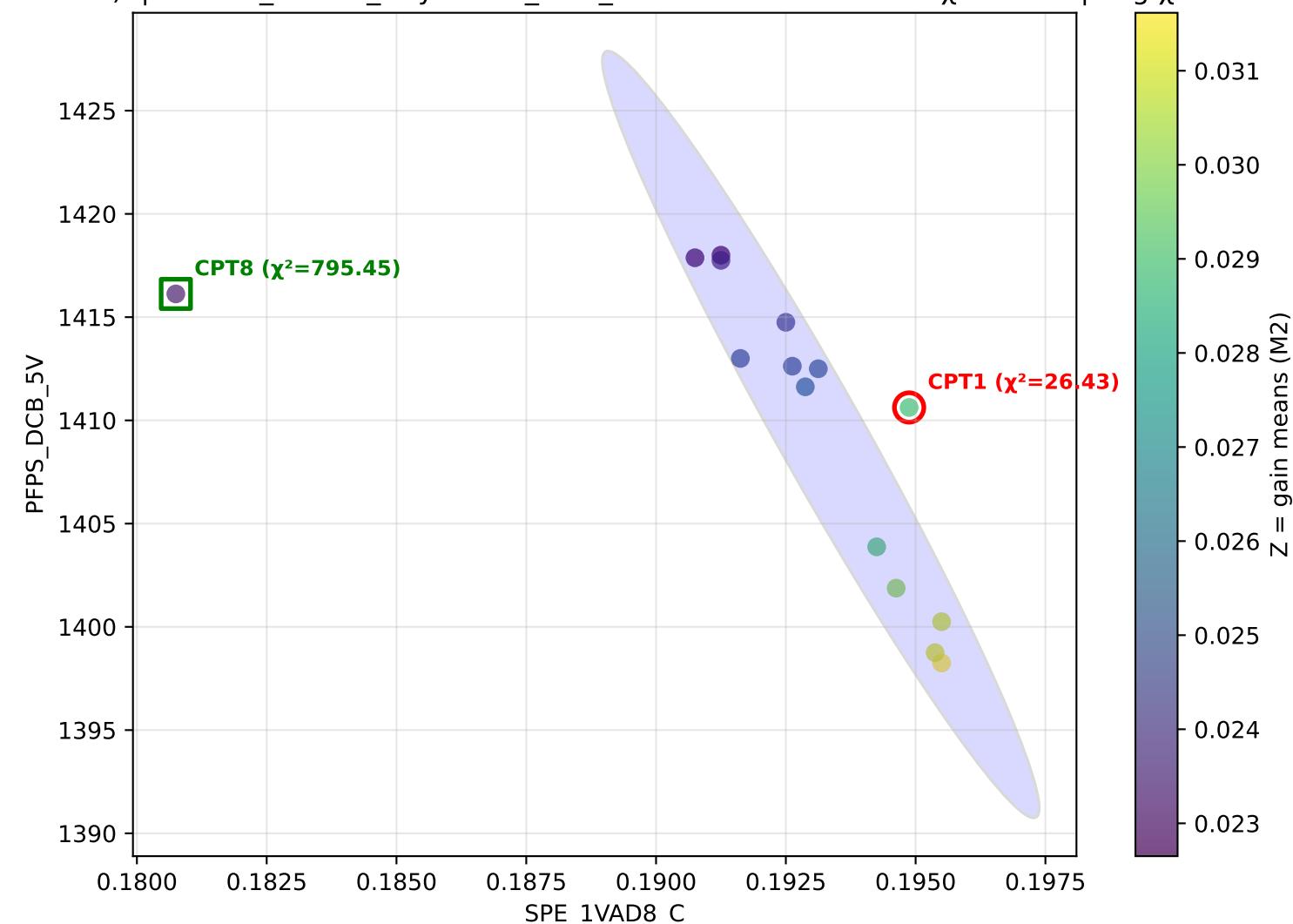
withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_DCB\_5V}$   $z=\text{M0}$  — M0 CPT1  $\chi^2=33.62$  | avg  $\chi^2=38.12$



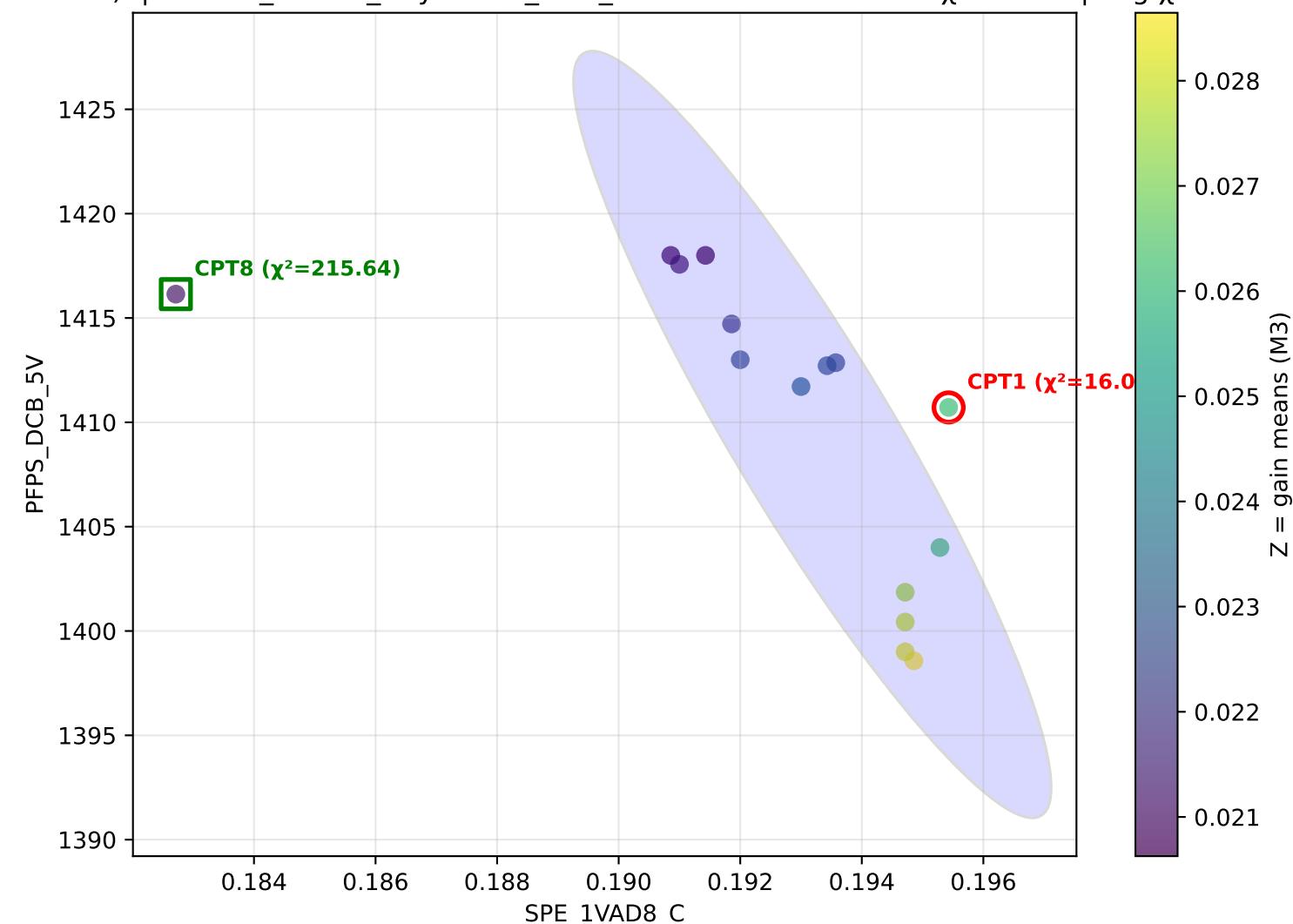
(withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_DCB\_5V}$   $z=\text{M1}$  —  $\text{M1 CPT1 } \chi^2=67.77$  | avg  $\chi^2=38.12$



withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_DCB\_5V}$   $z=\text{M2}$  — M2 CPT1  $\chi^2=26.43$  | avg  $\chi^2=38.12$



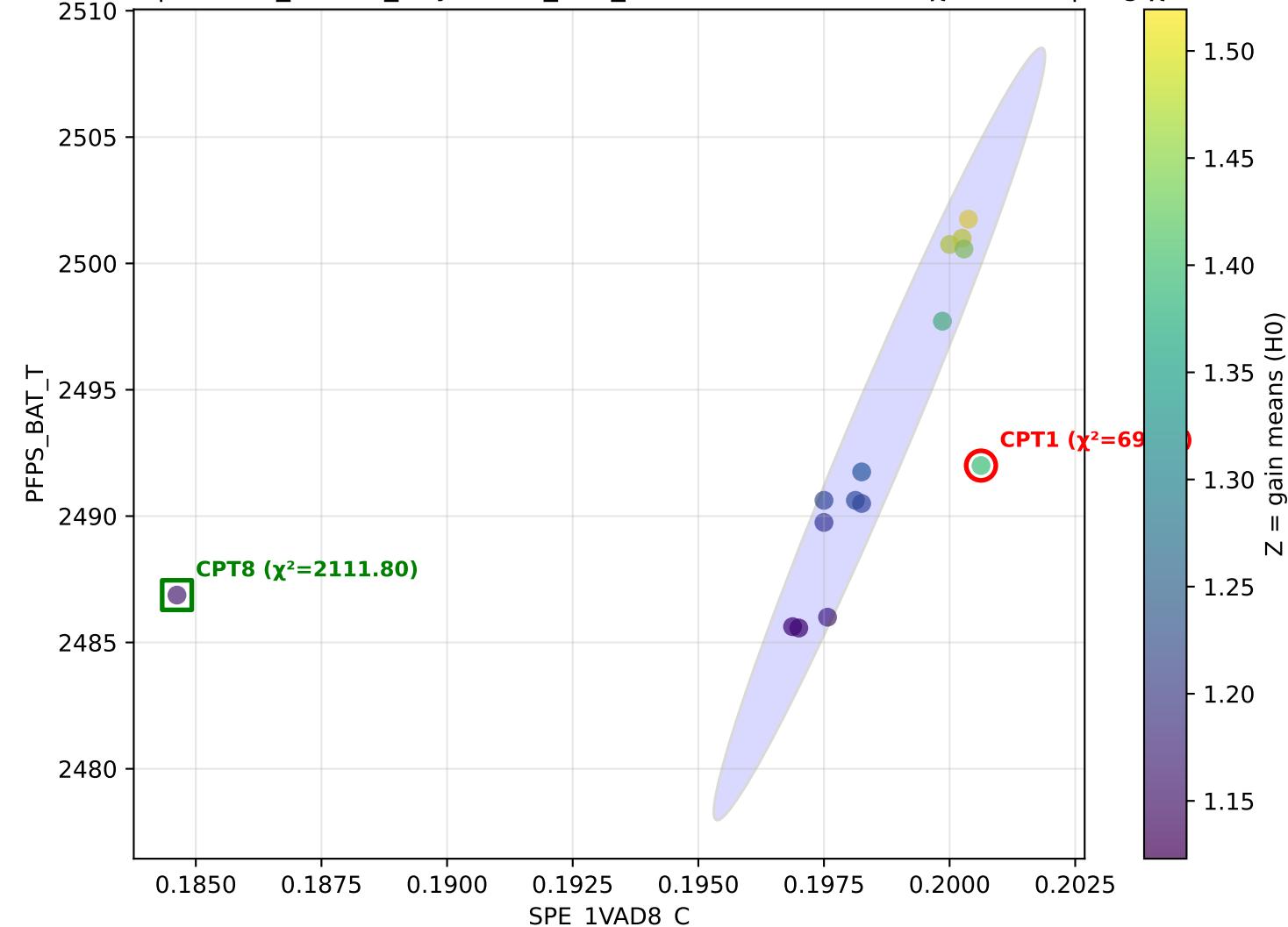
withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_DCB\_5V}$   $z=\text{M3}$  — M3 CPT1  $\chi^2=16.04$  | avg  $\chi^2=38.12$



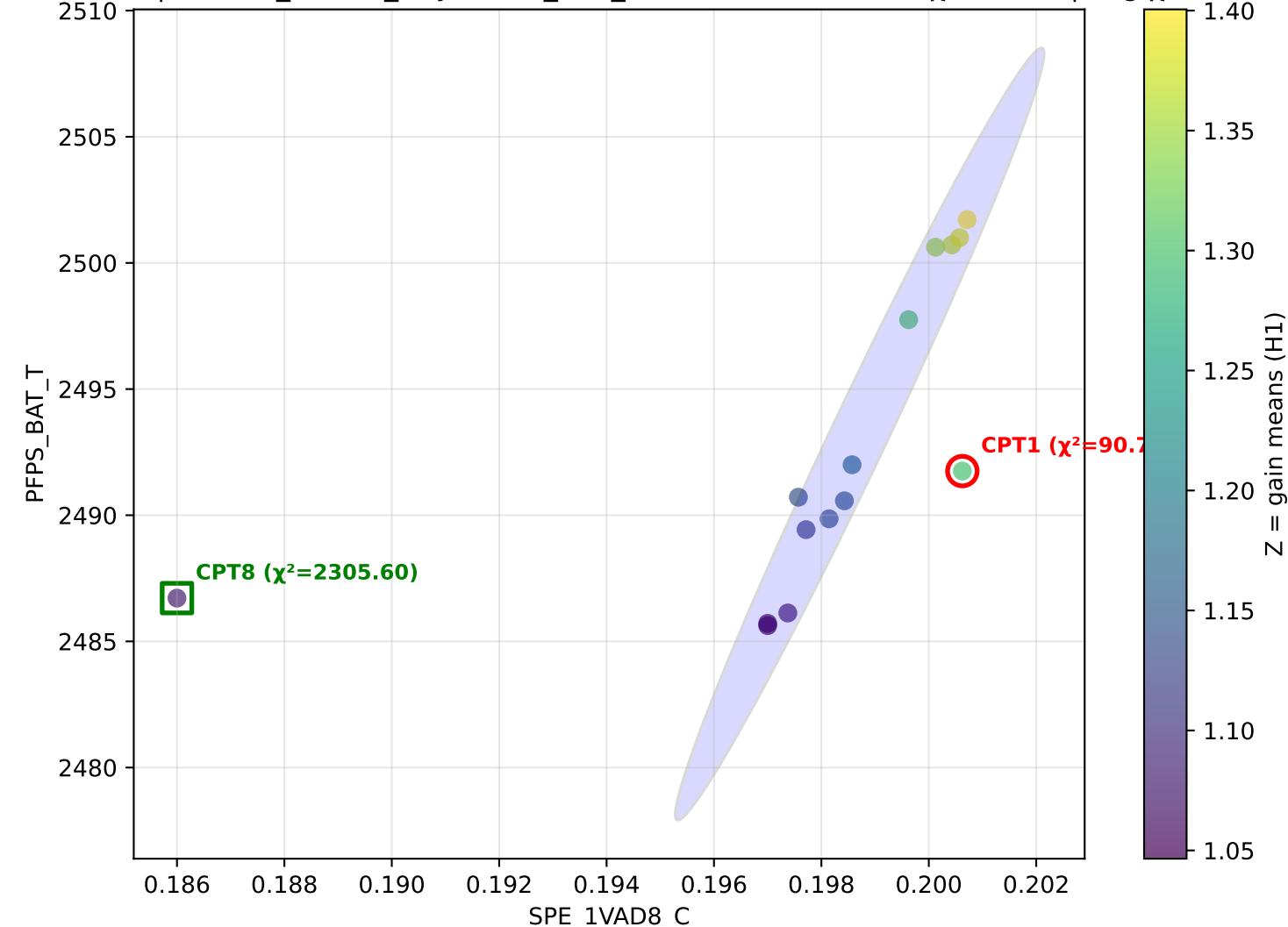
Pair: SPE\_1VAD8\_C vs PFPS\_BAT\_T

Average  $\chi^2$ (CPT1) across settings: 38.06

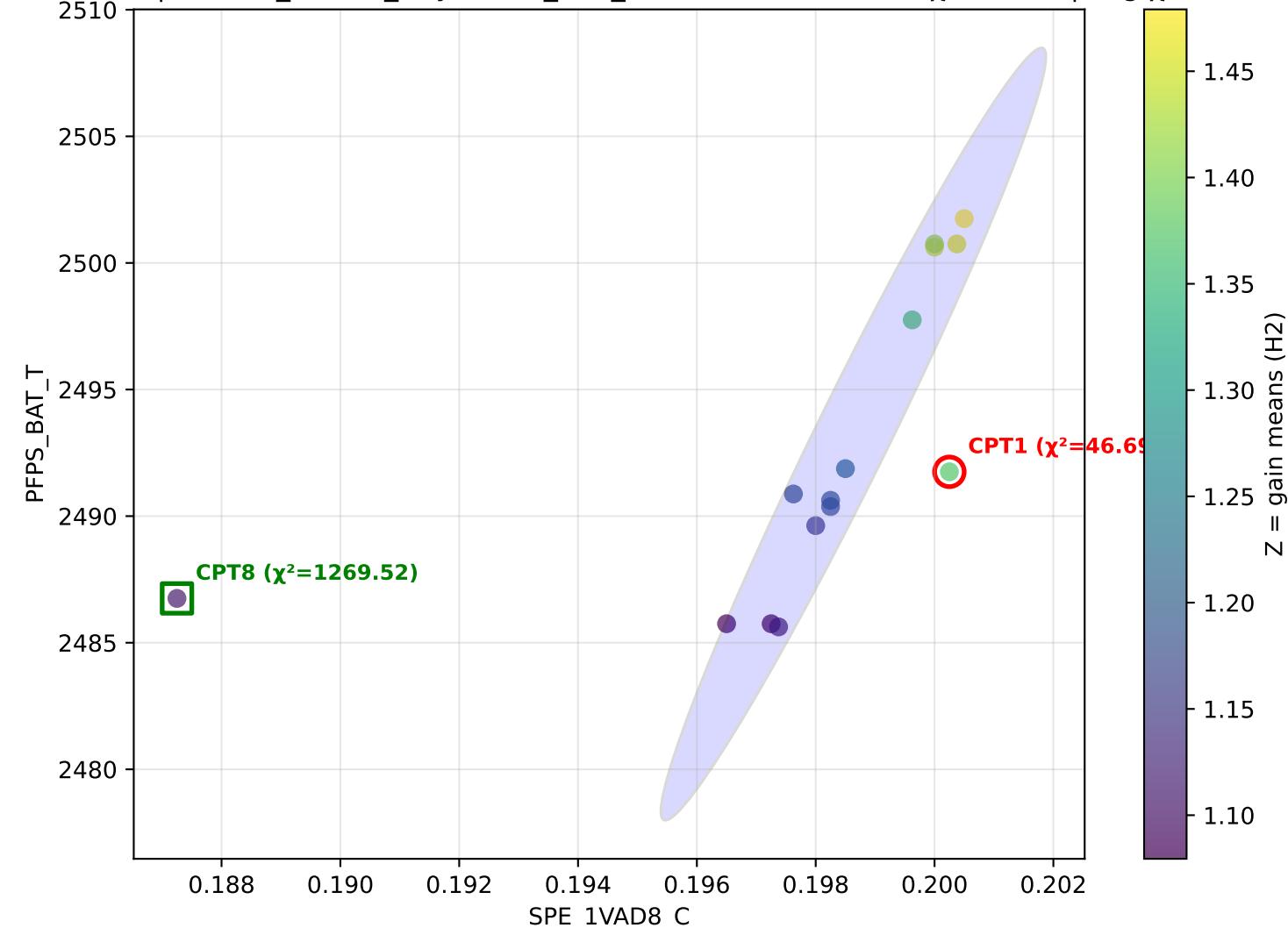
withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_BAT\_T}$   $z=\text{H0}$  —  $\text{H0}$  CPT1  $\chi^2=69.13$  | avg  $\chi^2=38.06$



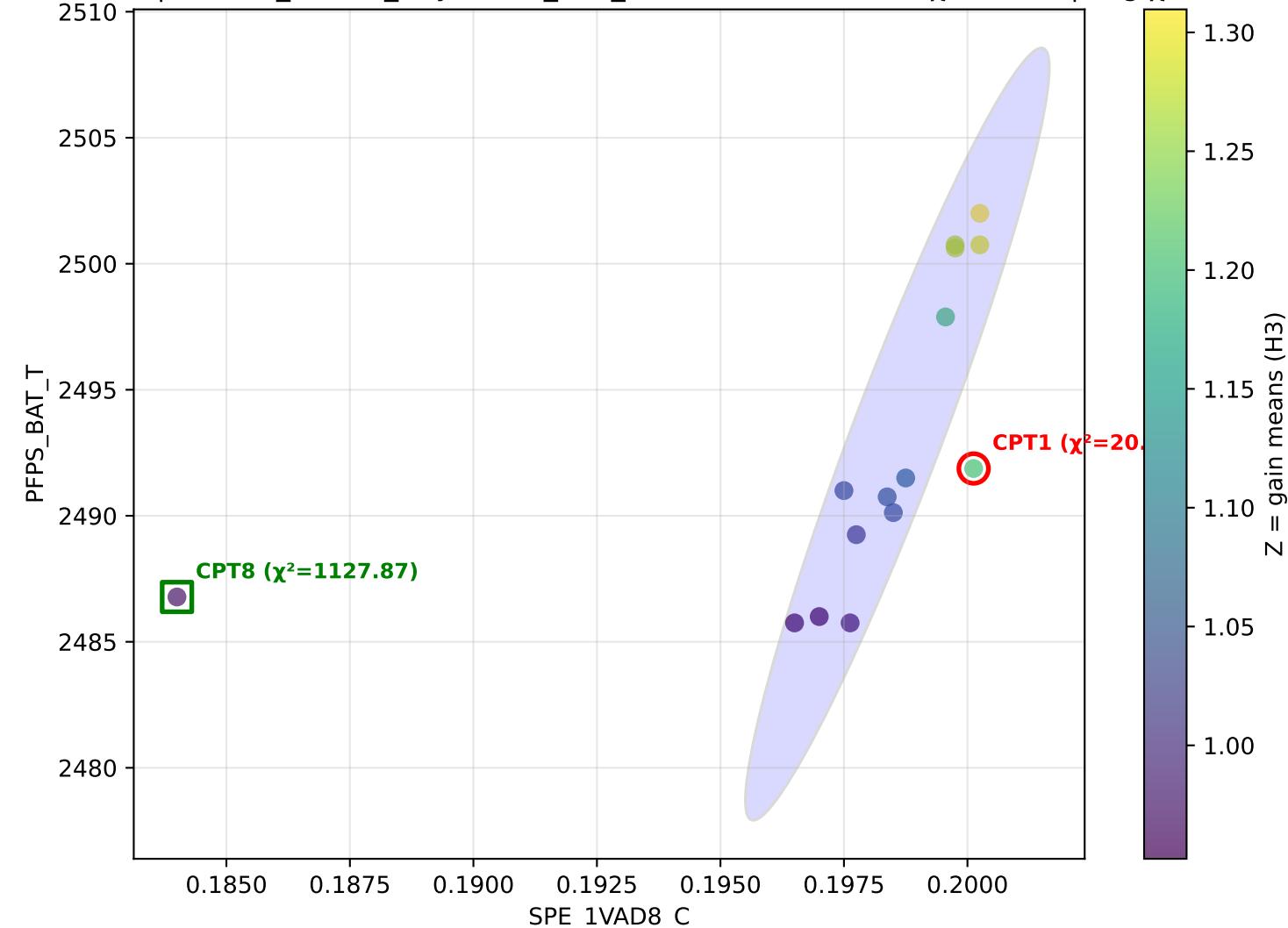
withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_BAT\_T}$   $z=\text{H1}$  —  $\text{H1 CPT1 } \chi^2=90.78$  | avg  $\chi^2=38.06$

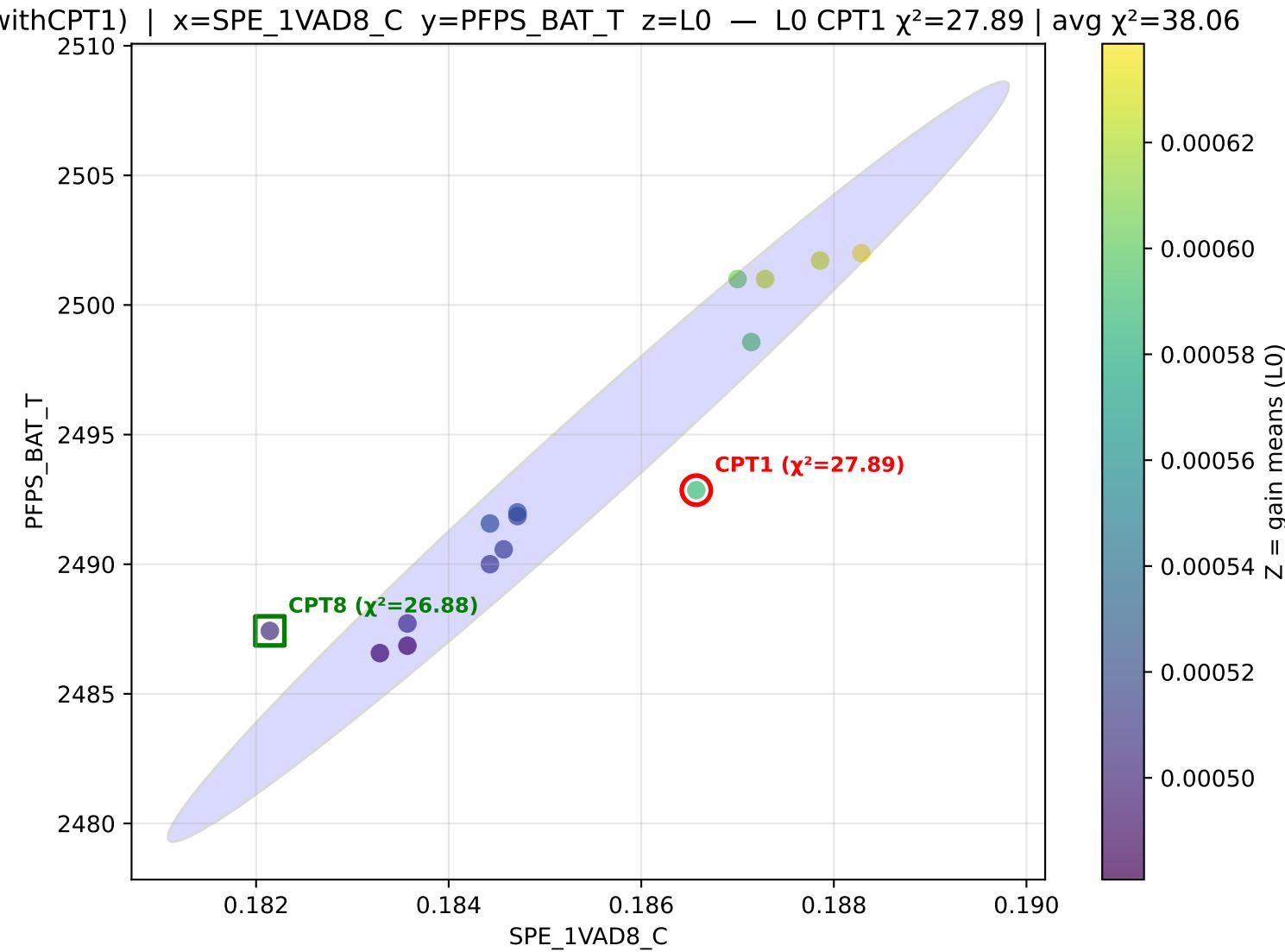


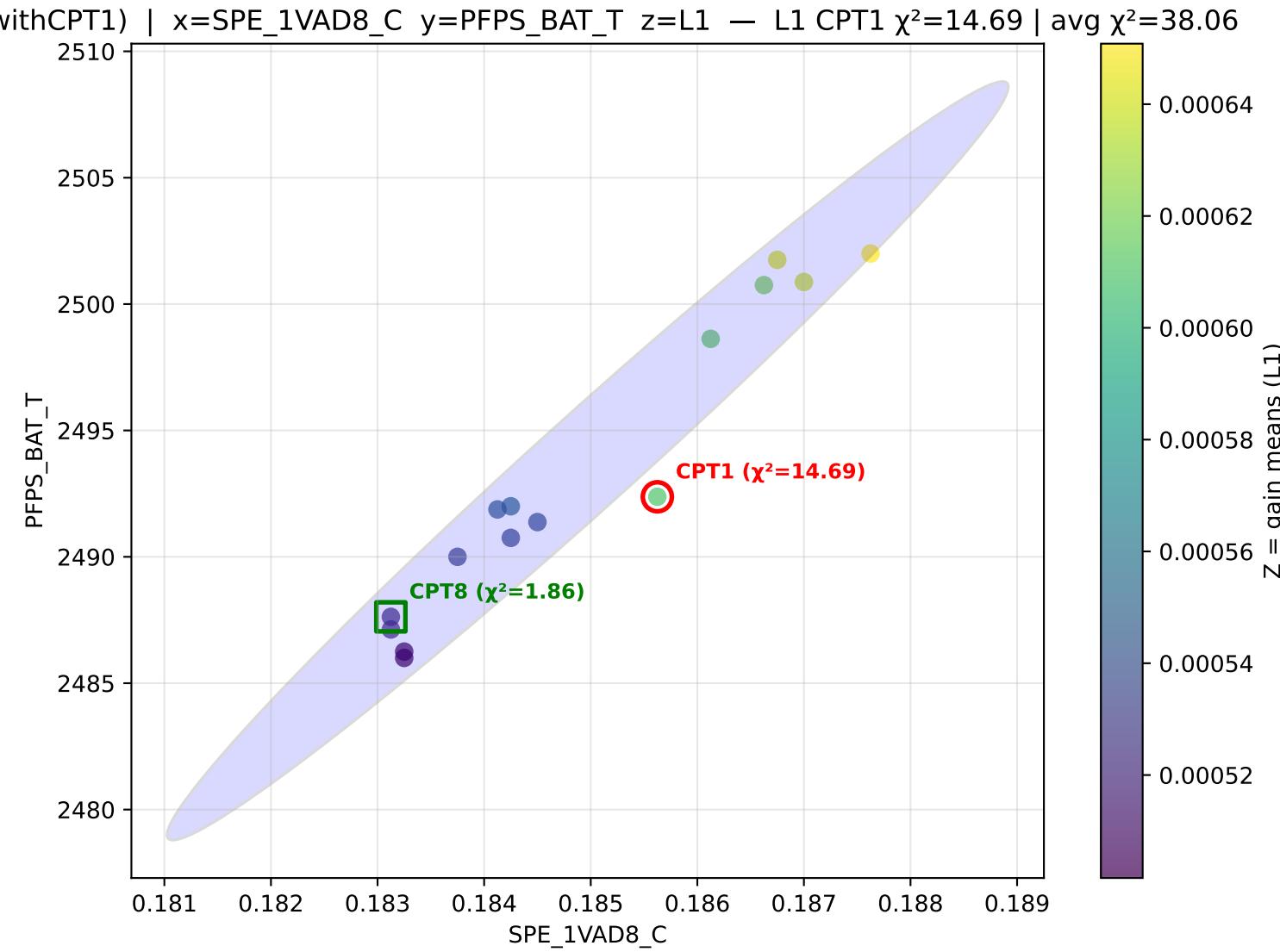
withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_BAT\_T}$   $z=\text{H2}$  — H2 CPT1  $\chi^2=46.69$  | avg  $\chi^2=38.06$



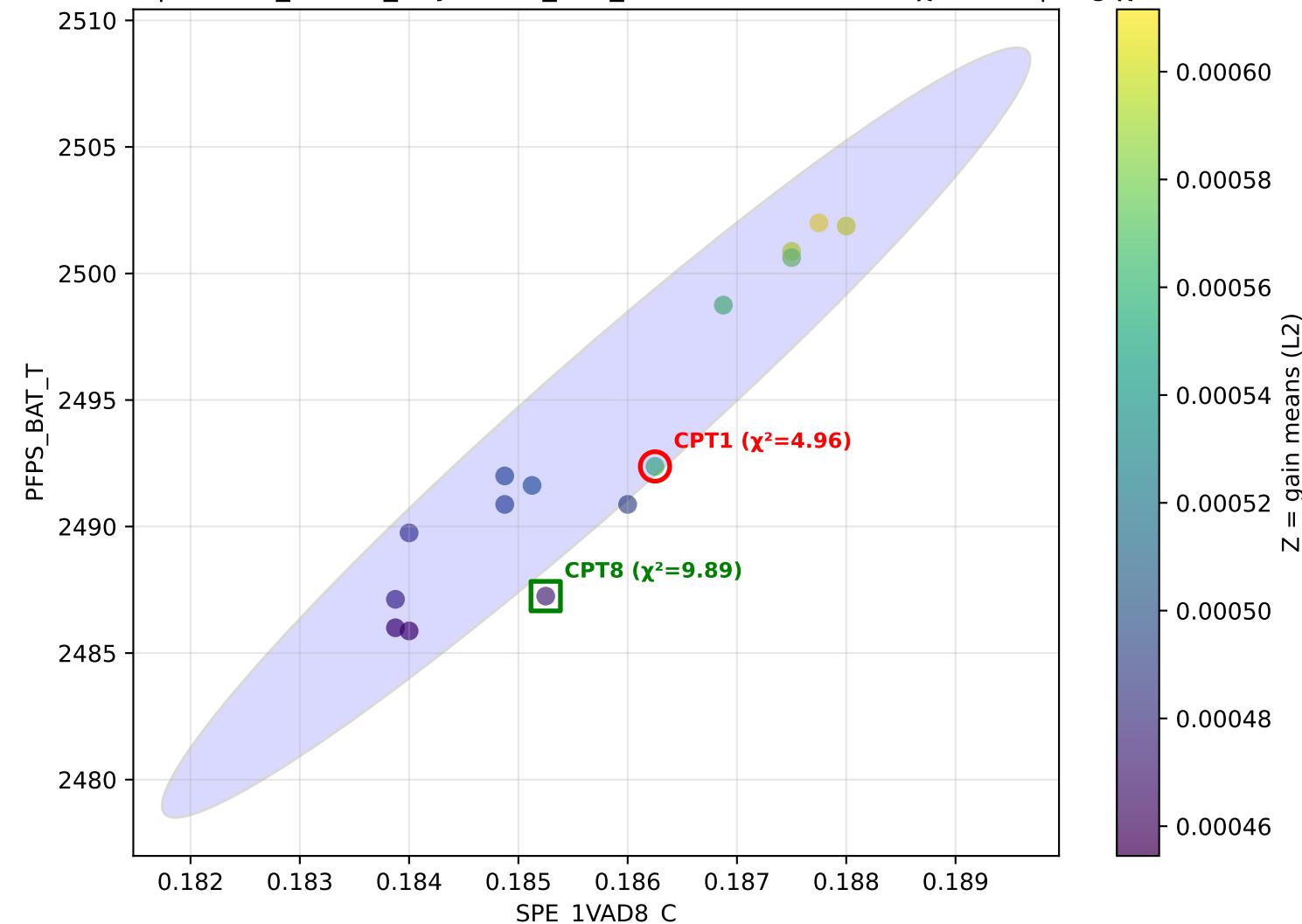
withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_BAT\_T}$   $z=\text{H3}$  — H3 CPT1  $\chi^2=20.62$  | avg  $\chi^2=38.06$



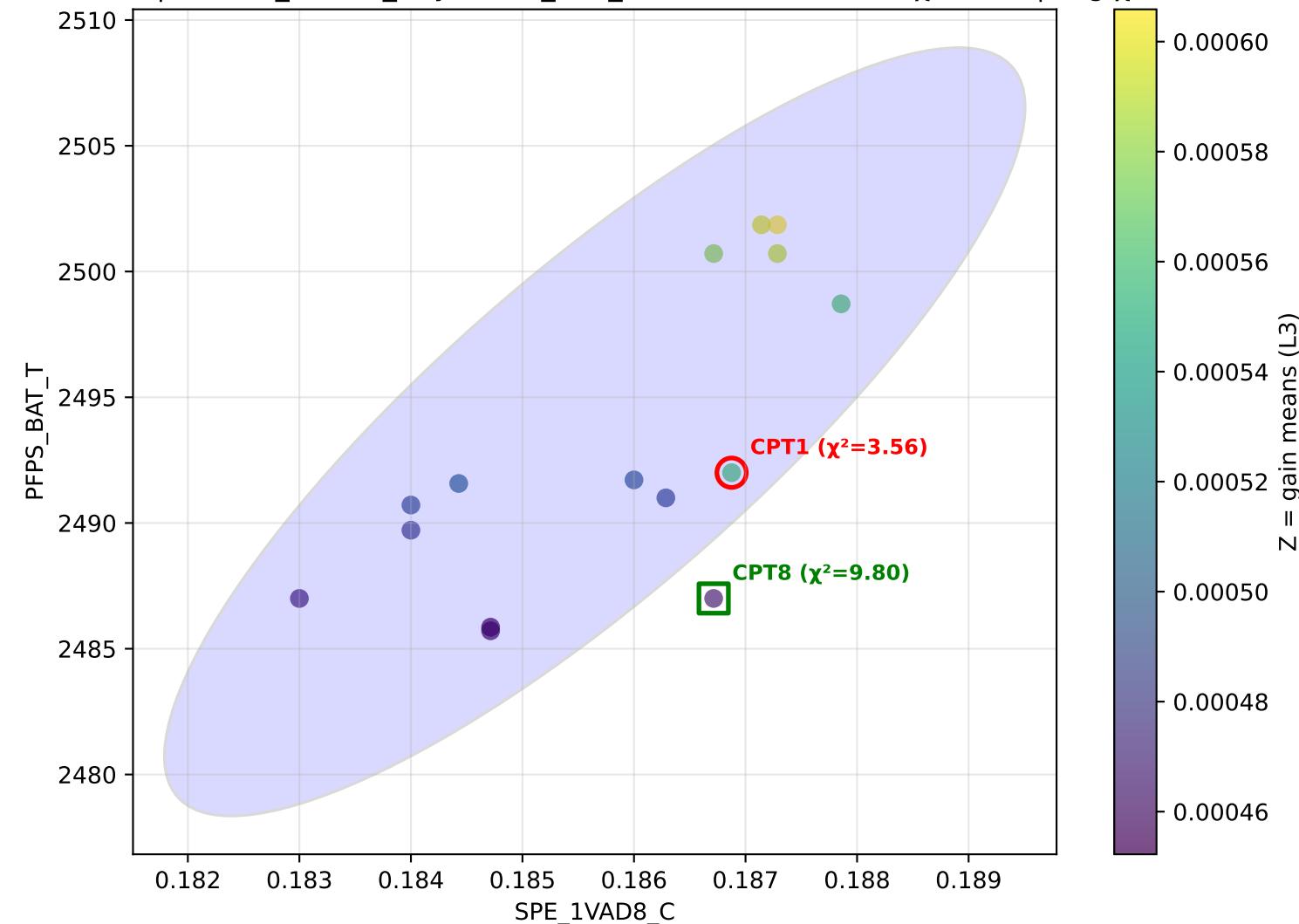




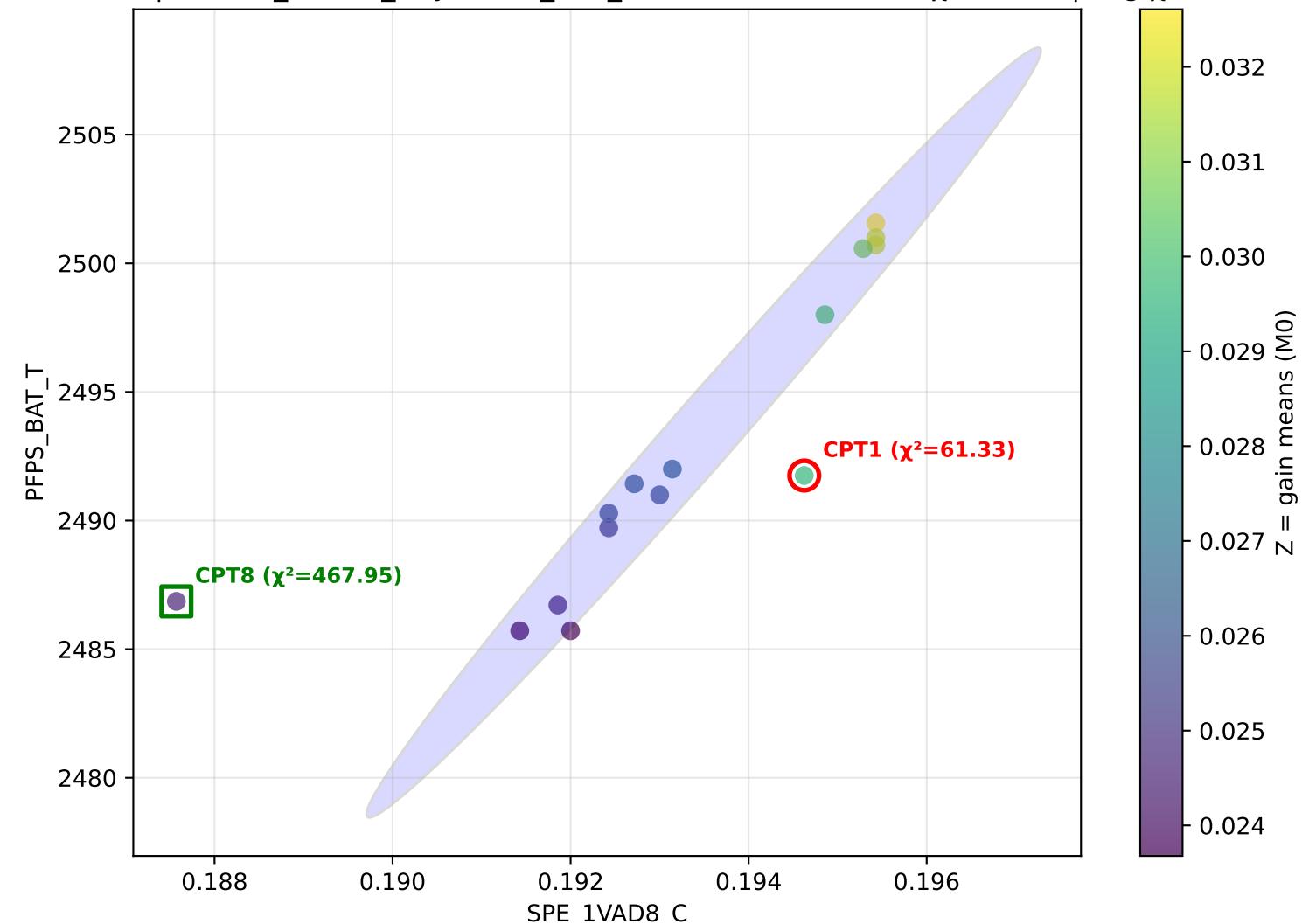
withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_BAT\_T}$   $z=L2$  — L2 CPT1  $\chi^2=4.96$  | avg  $\chi^2=38.06$



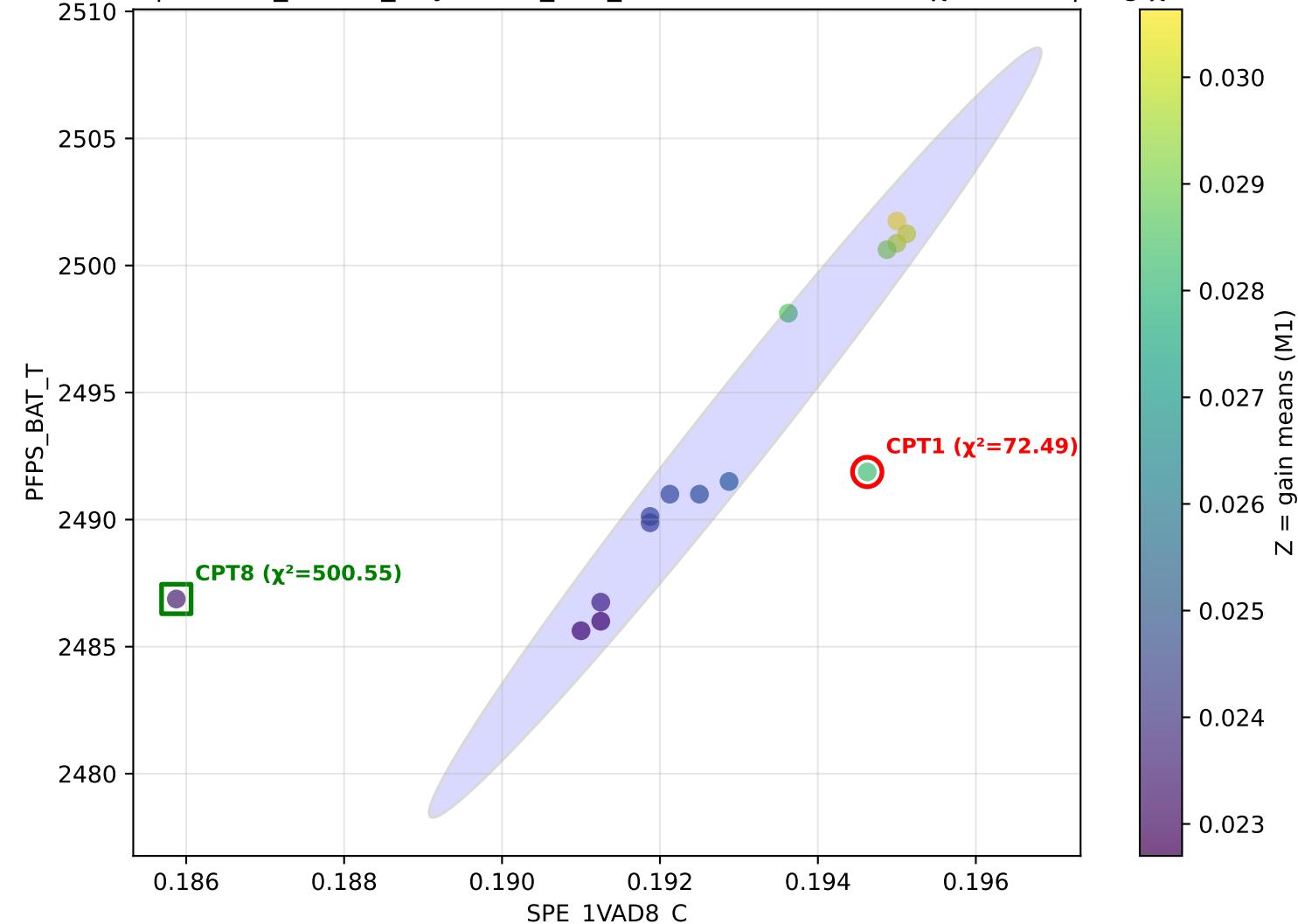
withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_BAT\_T}$   $z=L3$  — L3 CPT1  $\chi^2=3.56$  | avg  $\chi^2=38.06$



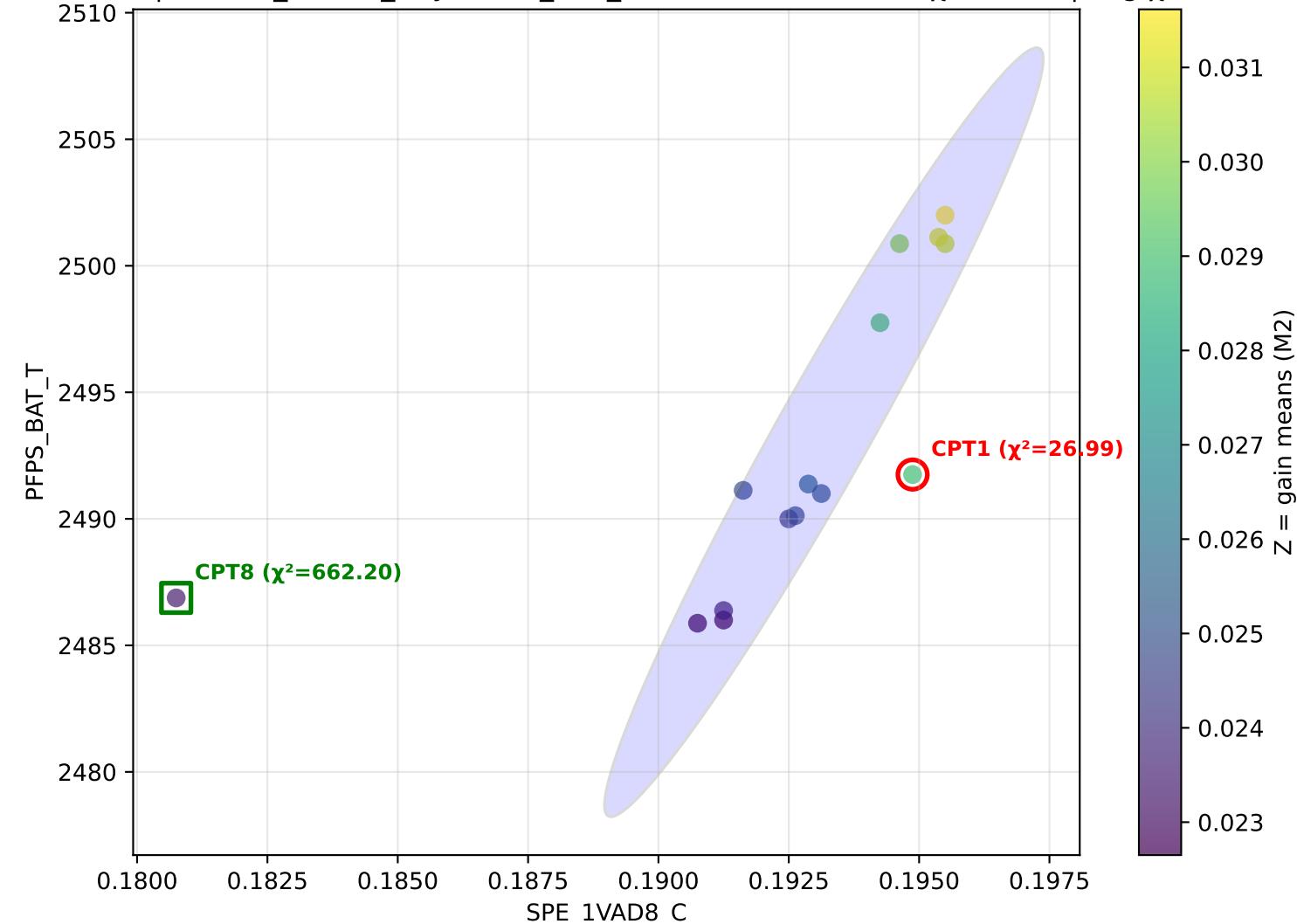
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_BAT\_T z=M0 — M0 CPT1  $\chi^2=61.33$  | avg  $\chi^2=38.06$



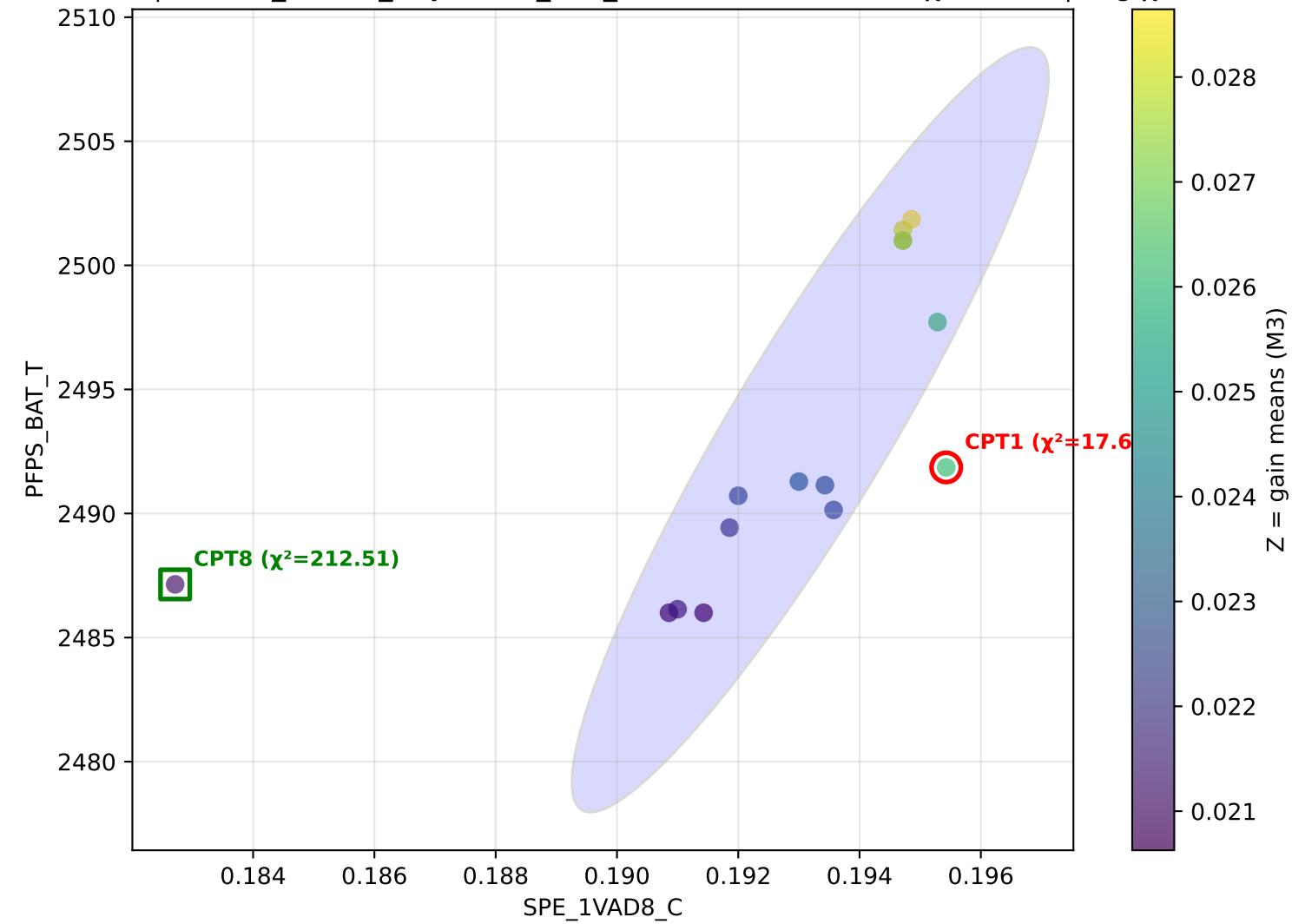
withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_BAT\_T}$   $z=M1$  — M1 CPT1  $\chi^2=72.49$  | avg  $\chi^2=38.06$



withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_BAT\_T z=M2 — M2 CPT1  $\chi^2=26.99$  | avg  $\chi^2=38.06$



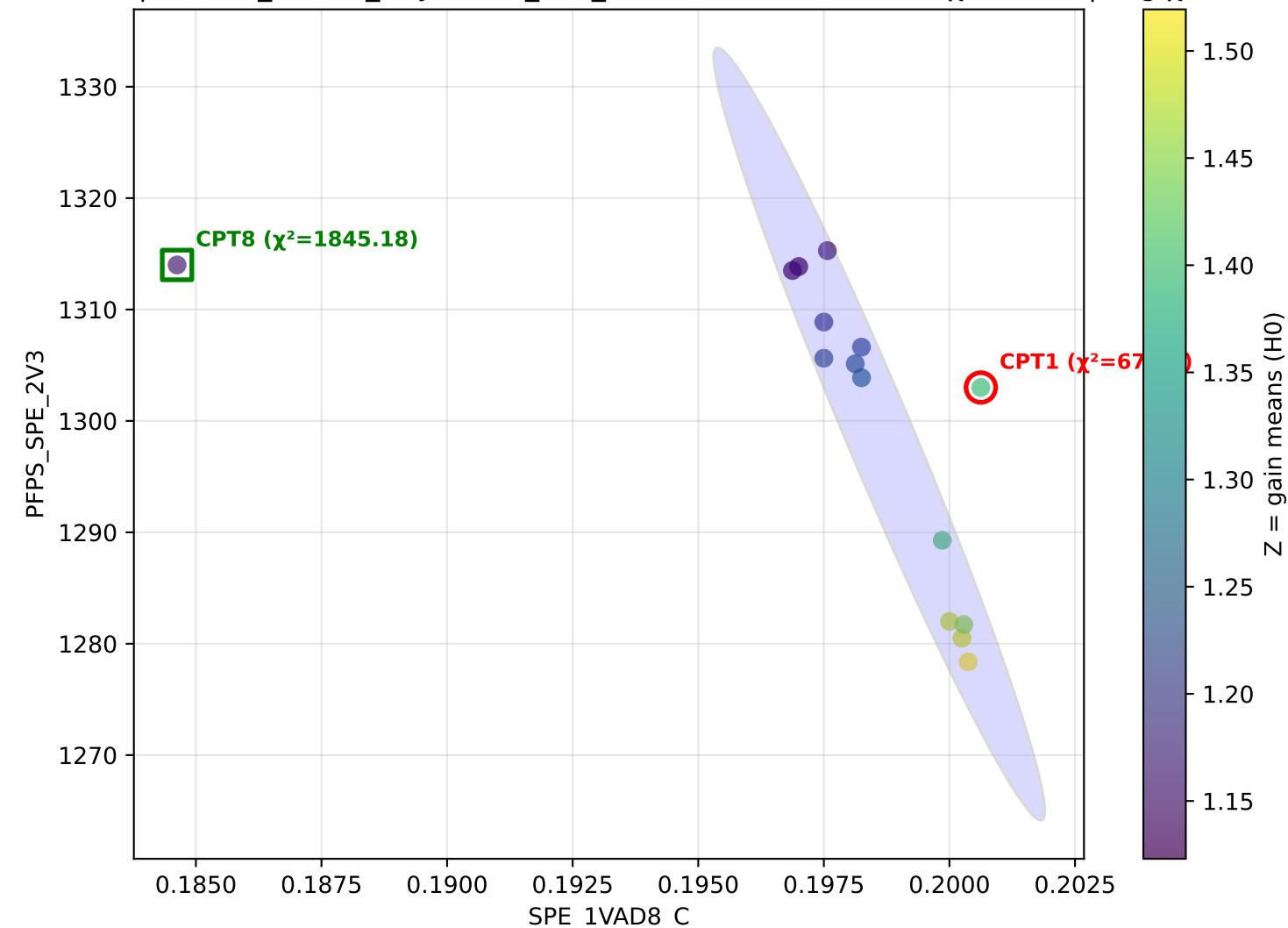
withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_BAT\_T}$   $z=\text{M3}$  — M3 CPT1  $\chi^2=17.67$  | avg  $\chi^2=38.06$

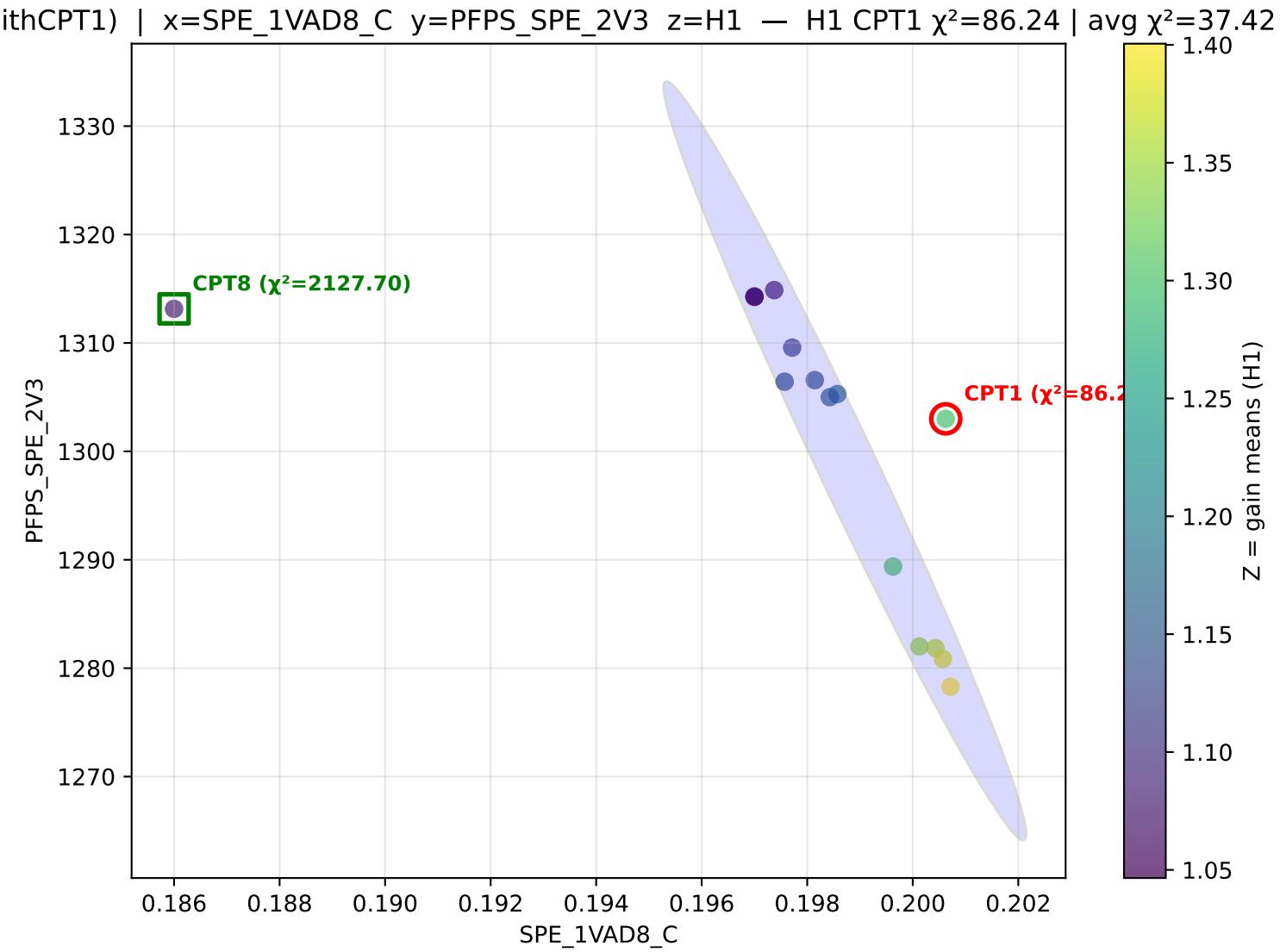


Pair: SPE\_1VAD8\_C vs PFPS\_SPE\_2V3

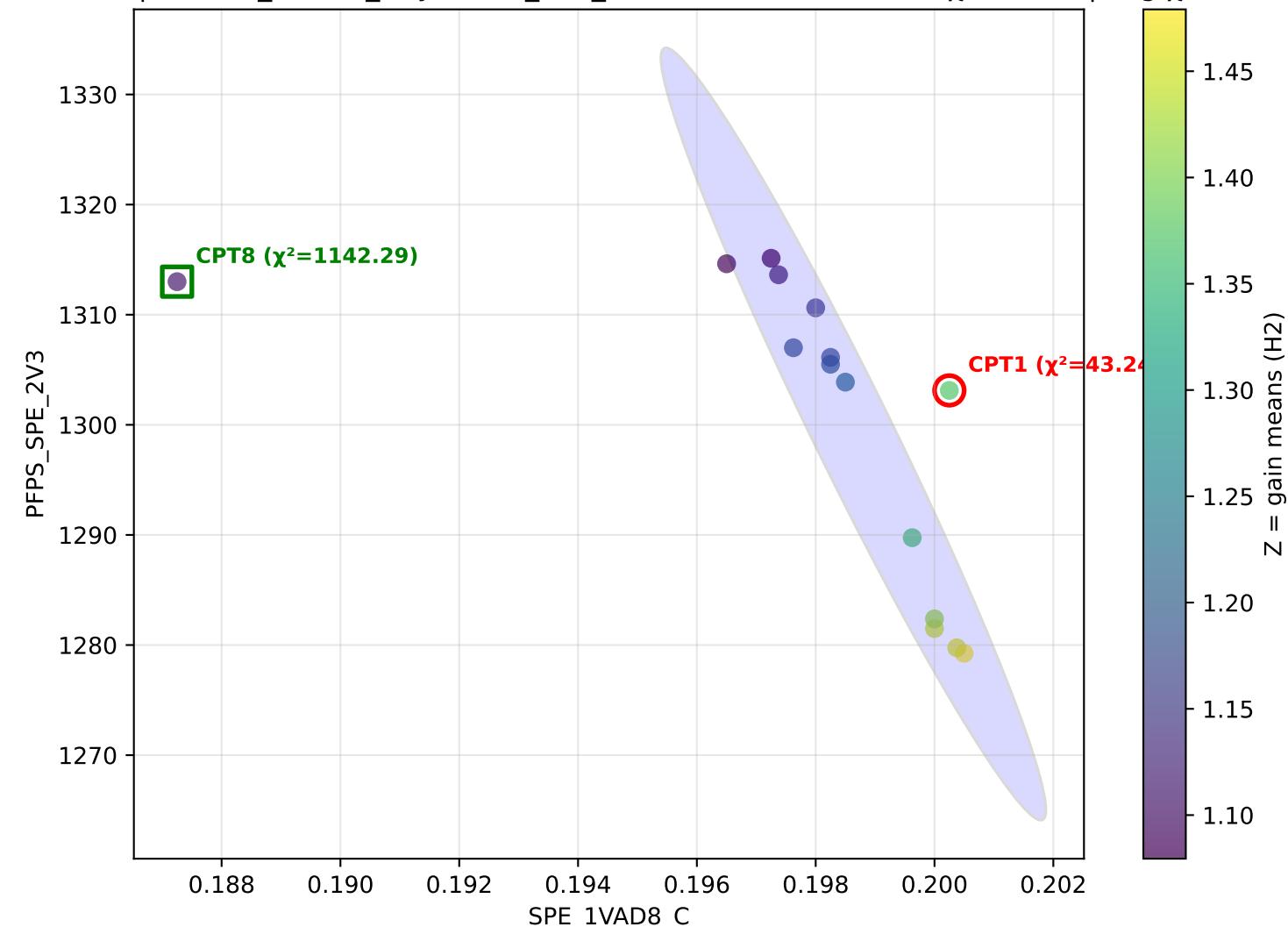
Average  $\chi^2$ (CPT1) across settings: 37.42

ithCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_SPE\_2V3}$   $z=\text{H0}$  — H0 CPT1  $\chi^2=67.87$  | avg  $\chi^2=37.42$

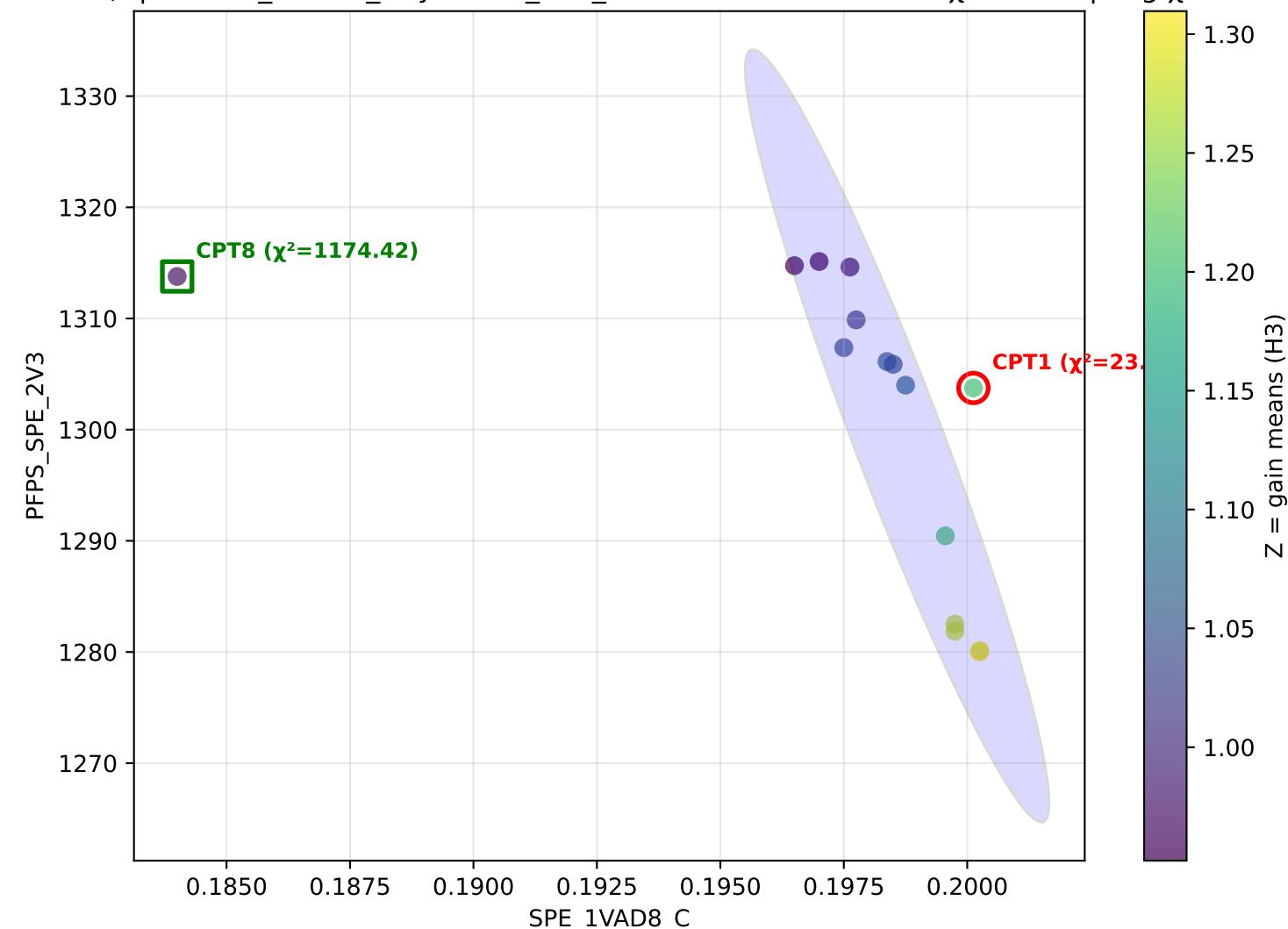




ithCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_SPE\_2V3}$   $z=\text{H2}$  — H2 CPT1  $\chi^2=43.24$  | avg  $\chi^2=37.42$



ithCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_SPE\_2V3}$   $z=\text{H3}$  — H3 CPT1  $\chi^2=23.94$  | avg  $\chi^2=37.42$



thCPT1) | x=SPE\_1VAD8\_C y=PFPS\_SPE\_2V3 z=L0 — L0 CPT1  $\chi^2=40.49$  | avg  $\chi^2=37.42$

PFPS\_SPE\_2V3

1330  
1320  
1310  
1300  
1290  
1280  
1270  
1260

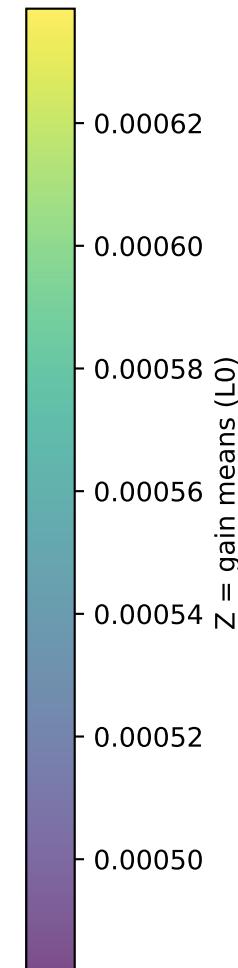
0.182 0.184 0.186 0.188 0.190

SPE\_1VAD8\_C

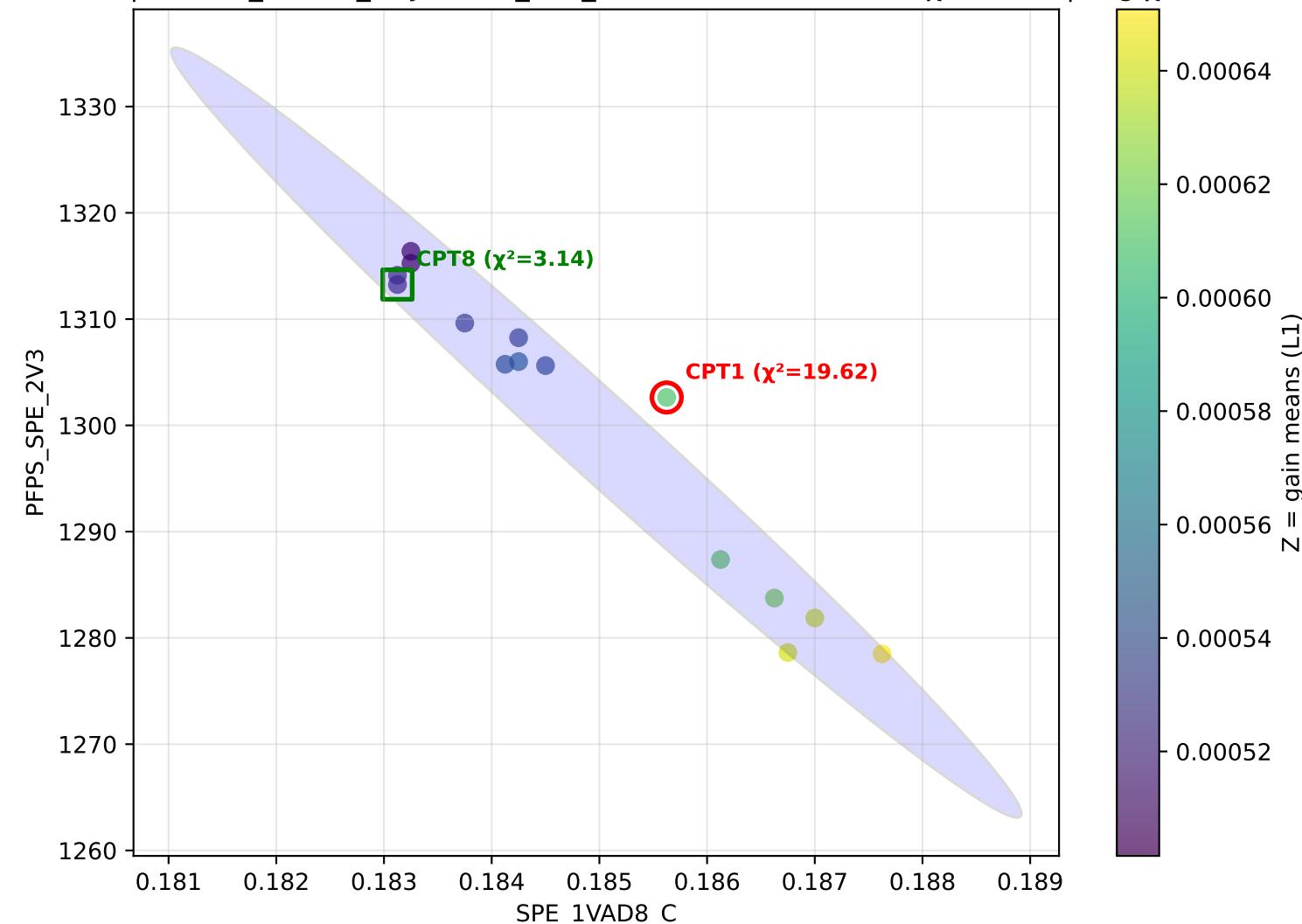


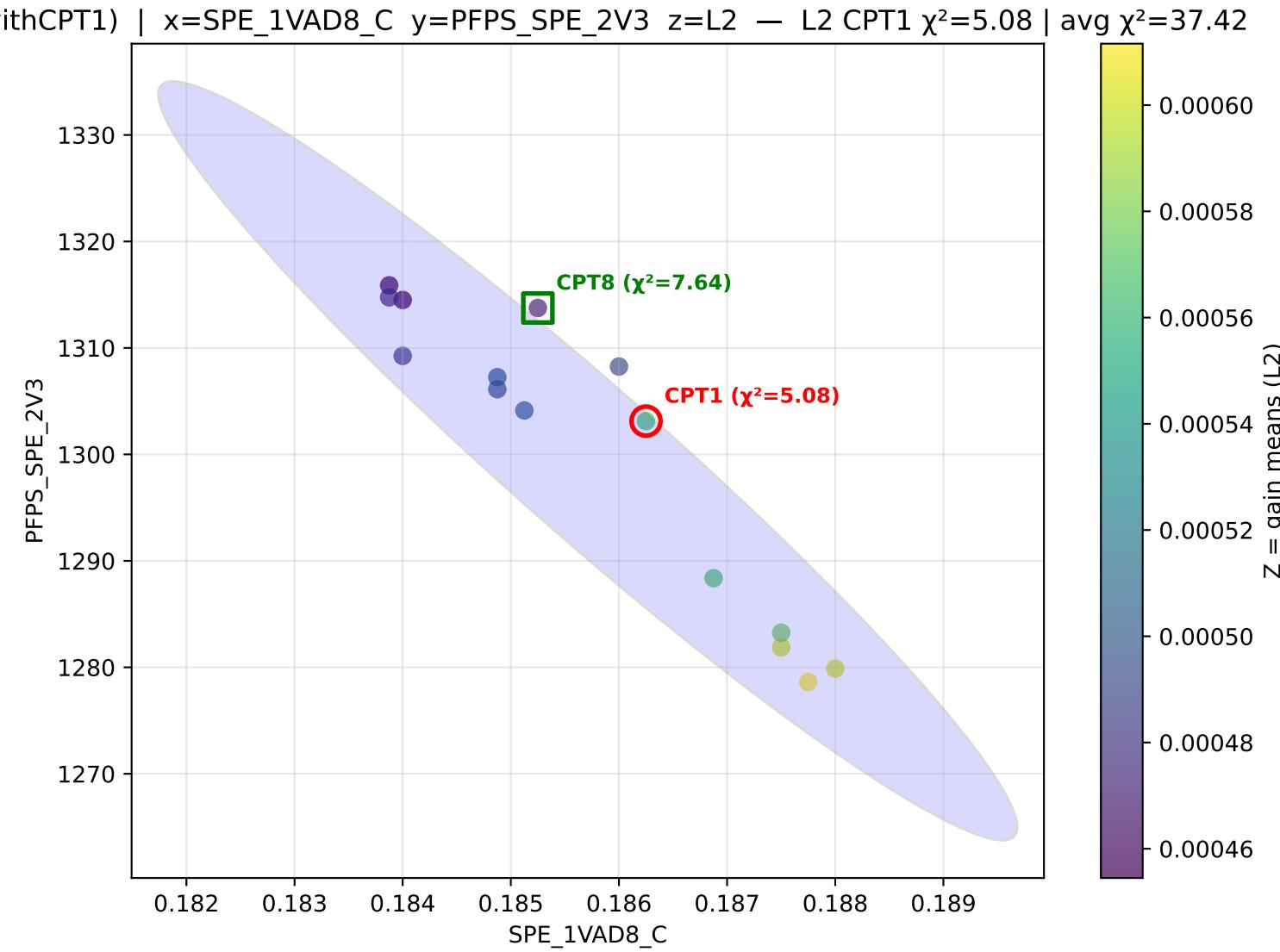
CPT8 ( $\chi^2=54.54$ )

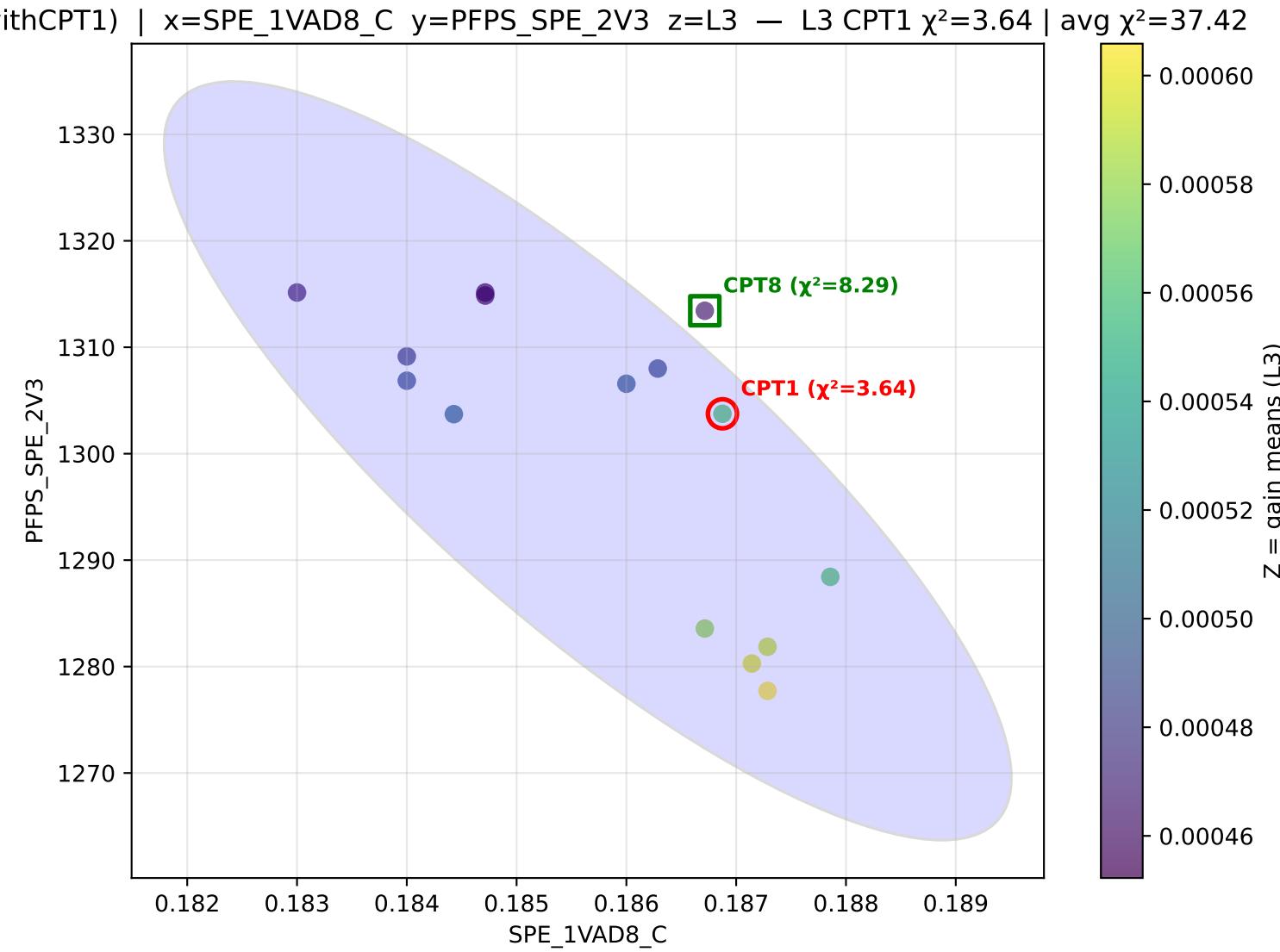
CPT1 ( $\chi^2=40.49$ )



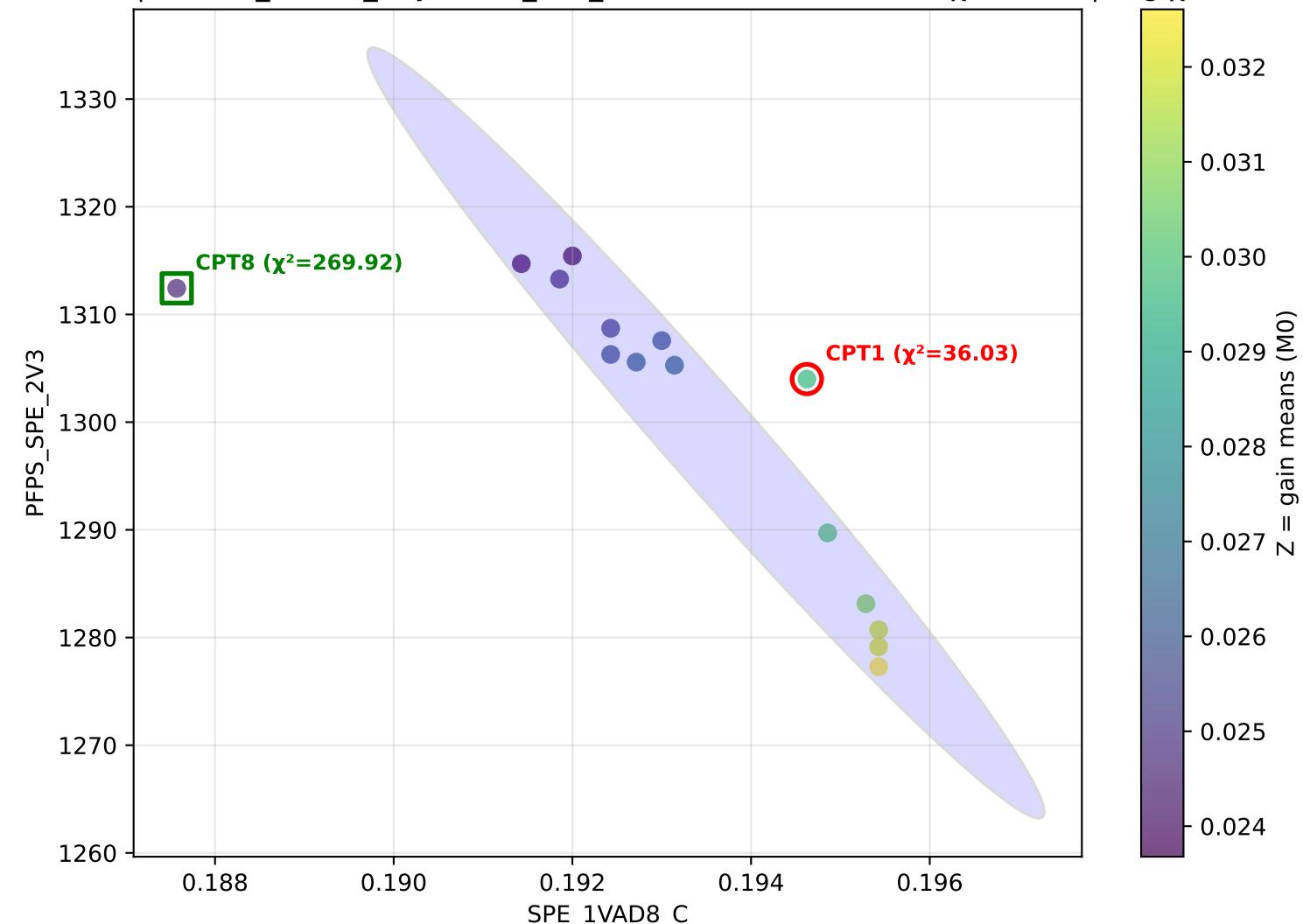
thCPT1) | x=SPE\_1VAD8\_C y=PFPS\_SPE\_2V3 z=L1 — L1 CPT1  $\chi^2=19.62$  | avg  $\chi^2=37.42$



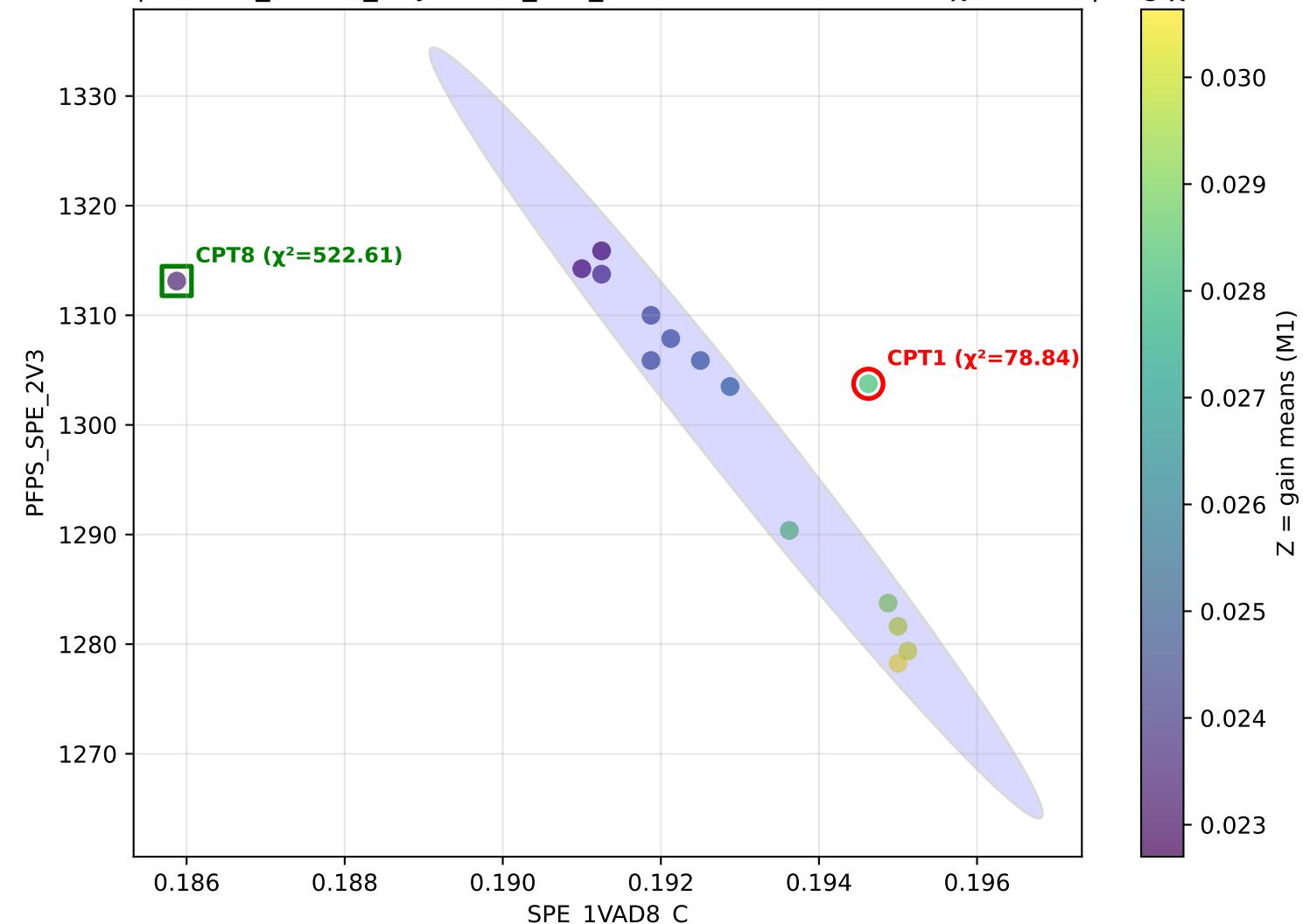




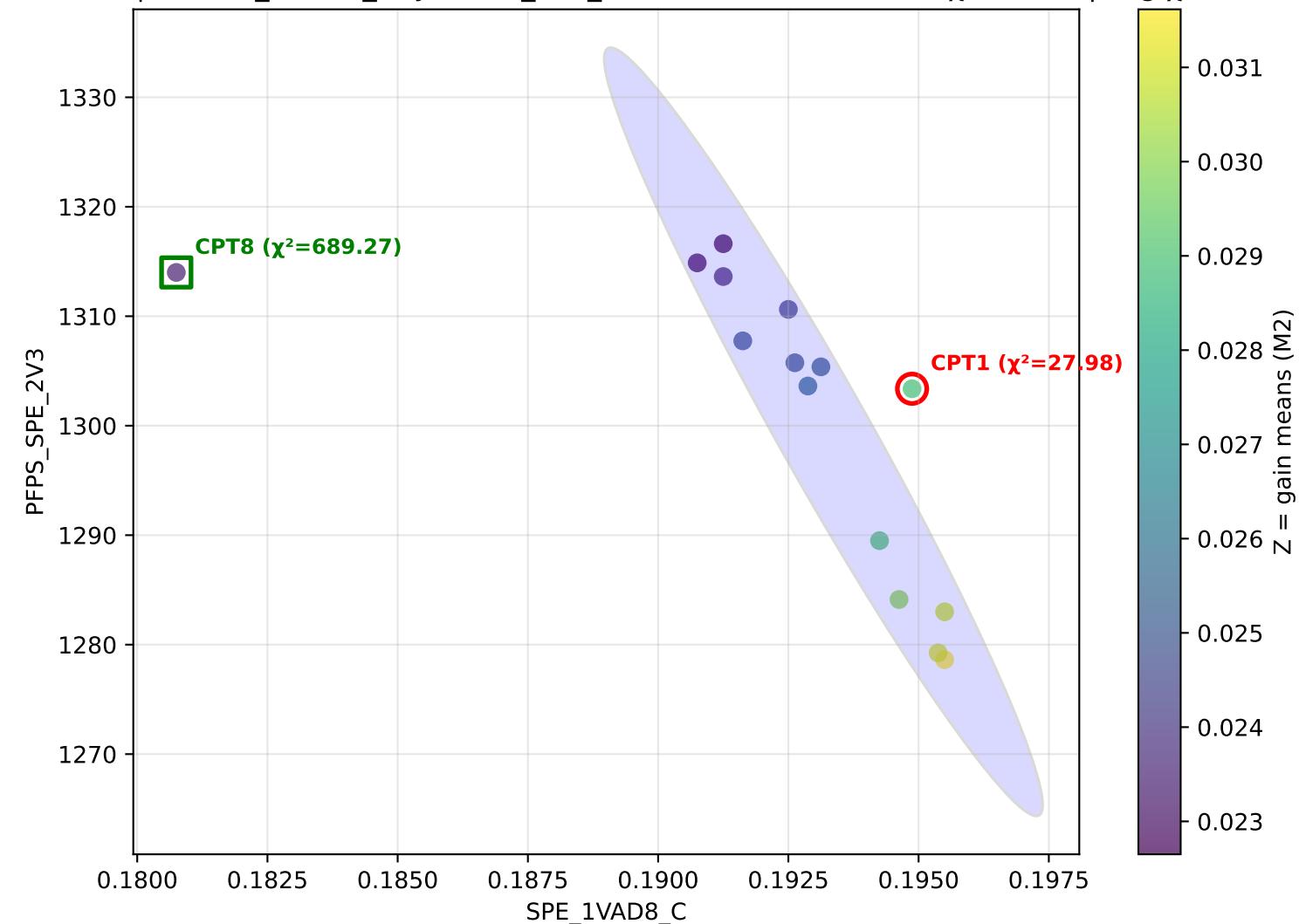
ithCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_SPE\_2V3}$   $z=M0$  — M0 CPT1  $\chi^2=36.03$  | avg  $\chi^2=37.42$



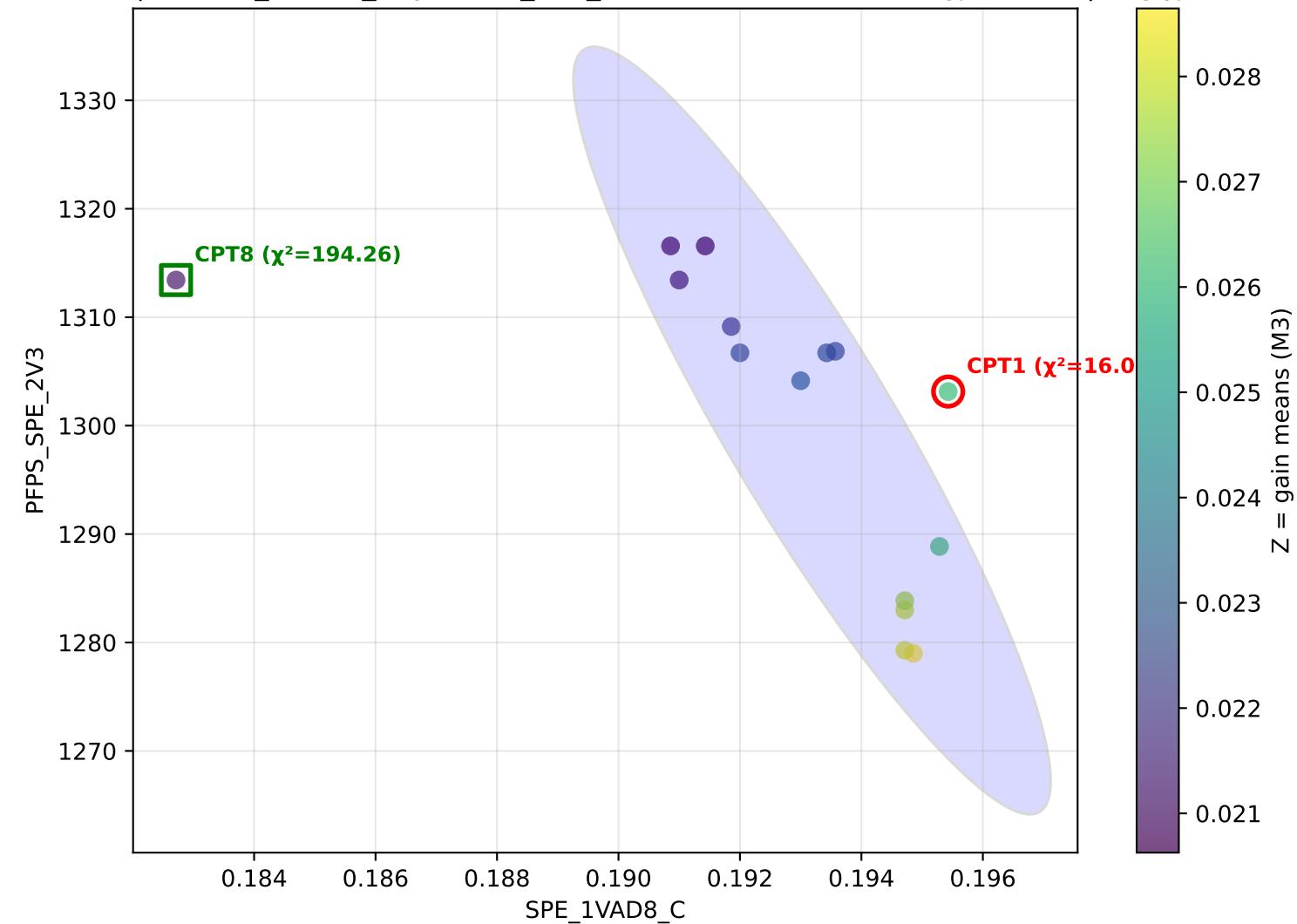
ithCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_SPE\_2V3}$   $z=\text{M1}$  — M1 CPT1  $\chi^2=78.84$  | avg  $\chi^2=37.42$



ithCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_SPE\_2V3}$   $z=\text{M2}$  — M2 CPT1  $\chi^2=27.98$  | avg  $\chi^2=37.42$



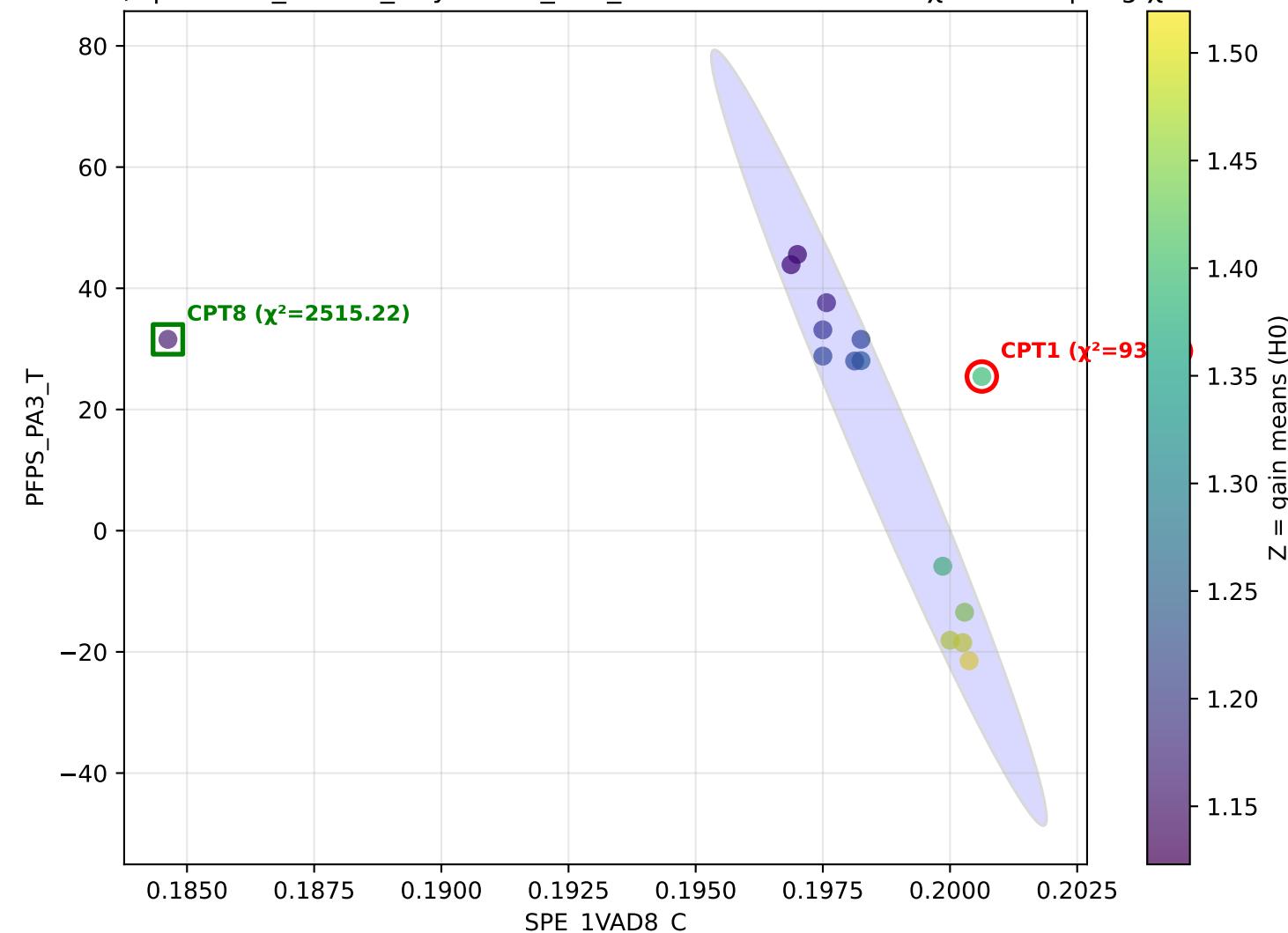
ithCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_SPE\_2V3}$   $z=\text{M3}$  — M3 CPT1  $\chi^2=16.04$  | avg  $\chi^2=37.42$



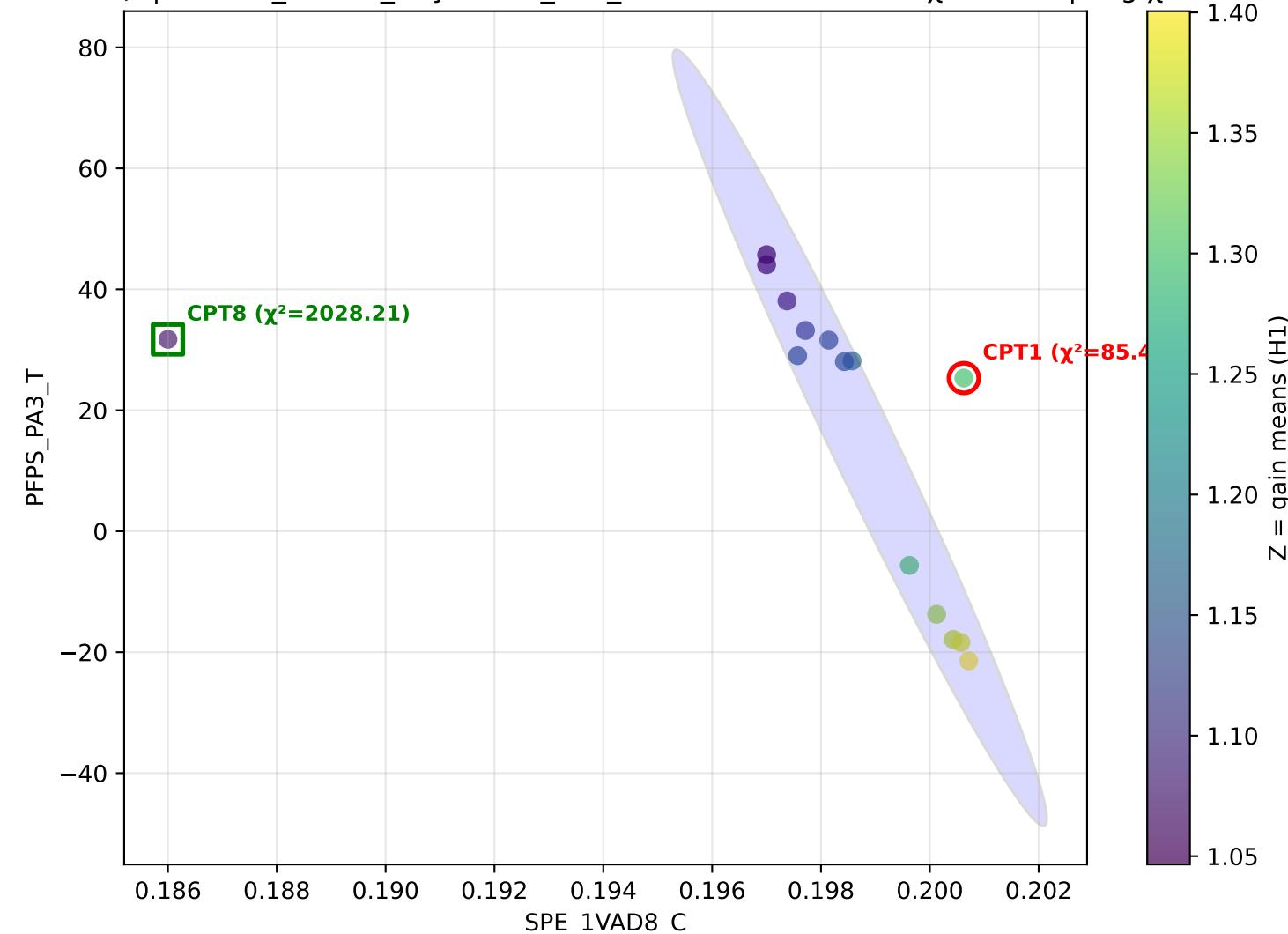
Pair: SPE\_1VAD8\_C vs PFPS\_PA3\_T

Average  $\chi^2$ (CPT1) across settings: 36.07

withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA3\_T z=H0 — H0 CPT1  $\chi^2=93.29$  | avg  $\chi^2=36.07$

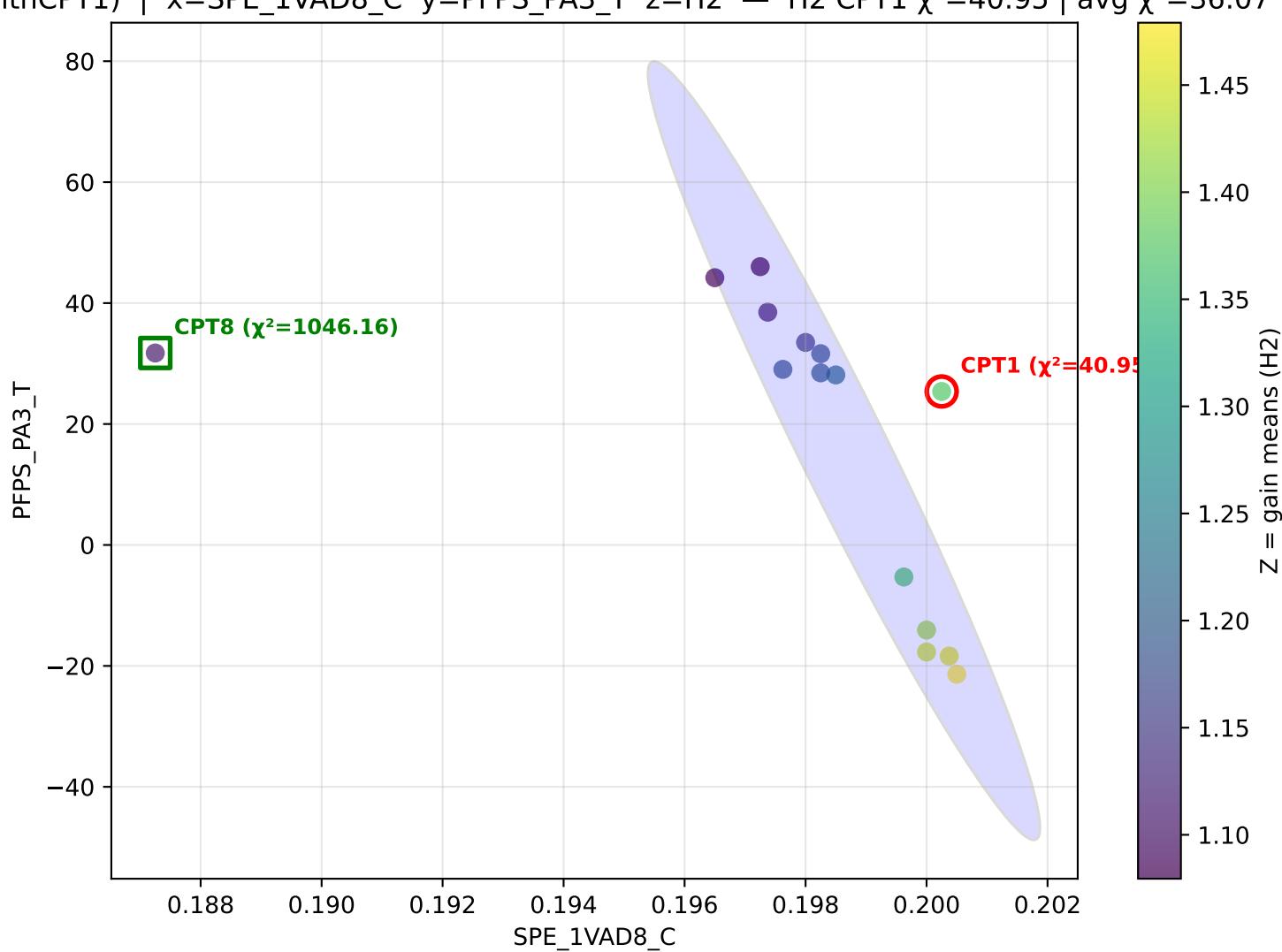


withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA3\_T z=H1 — H1 CPT1  $\chi^2=85.44$  | avg  $\chi^2=36.07$

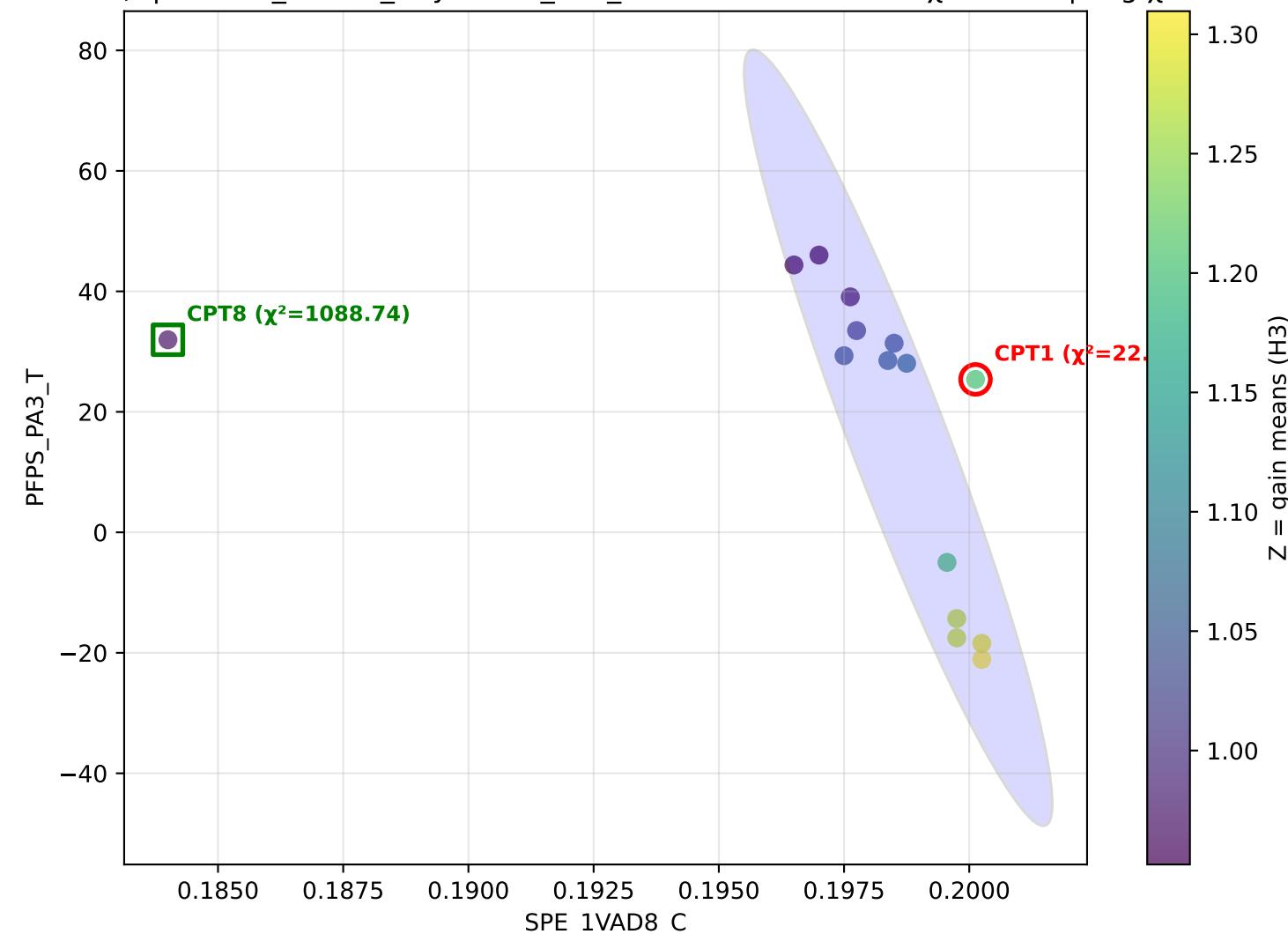


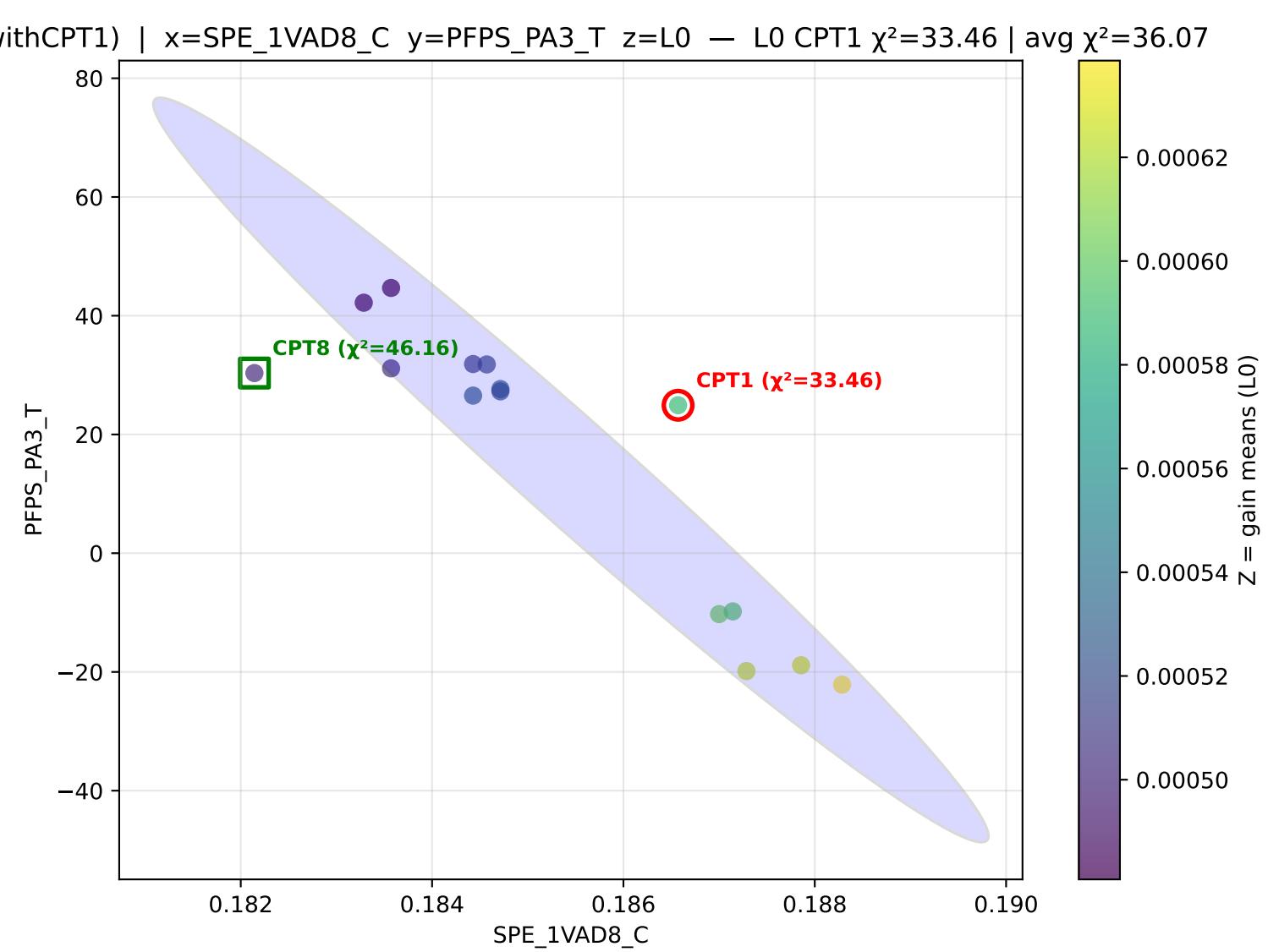
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA3\_T z=H2 — H2 CPT1  $\chi^2=40.95$  | avg  $\chi^2=36.07$

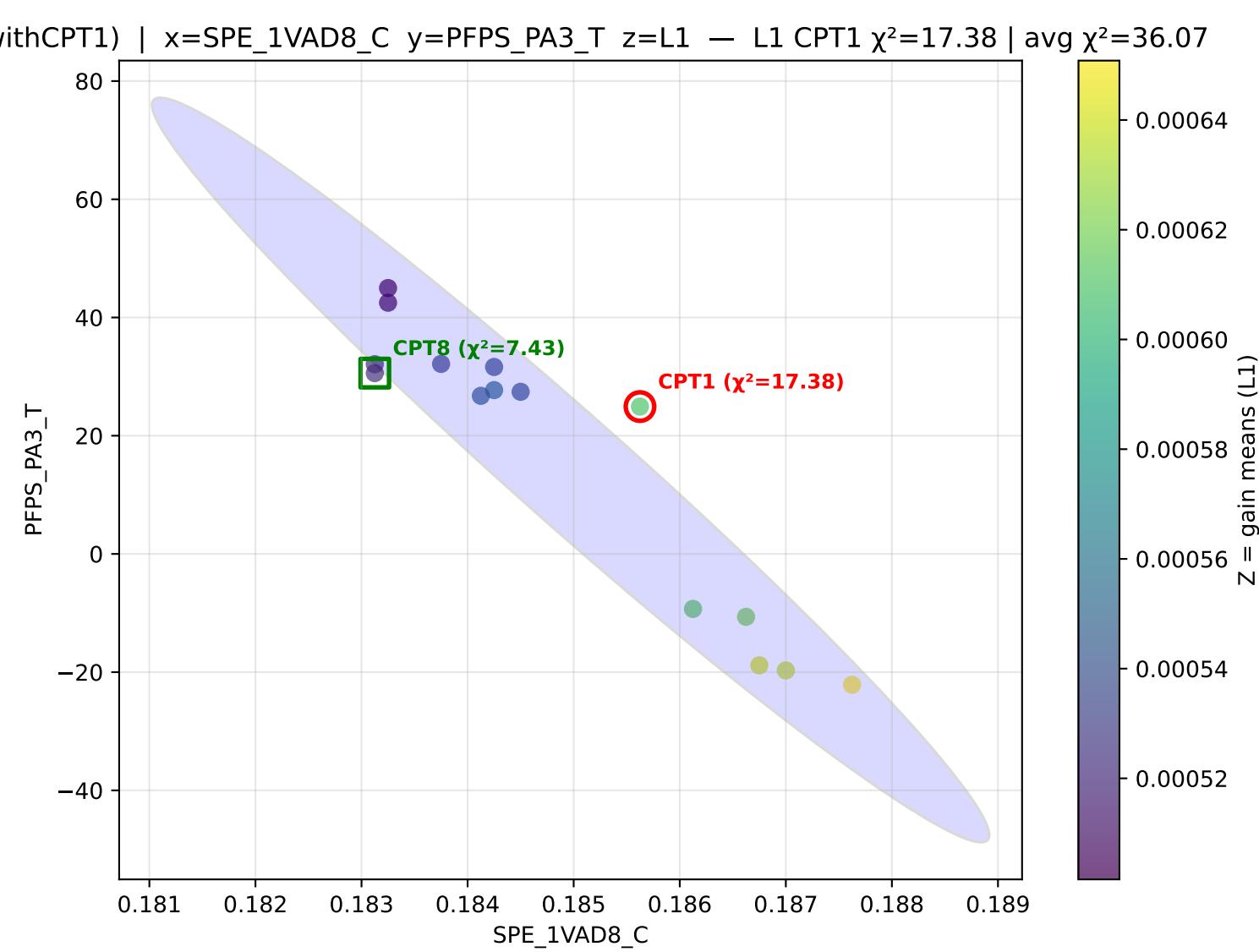
PFPS\_PA3\_T



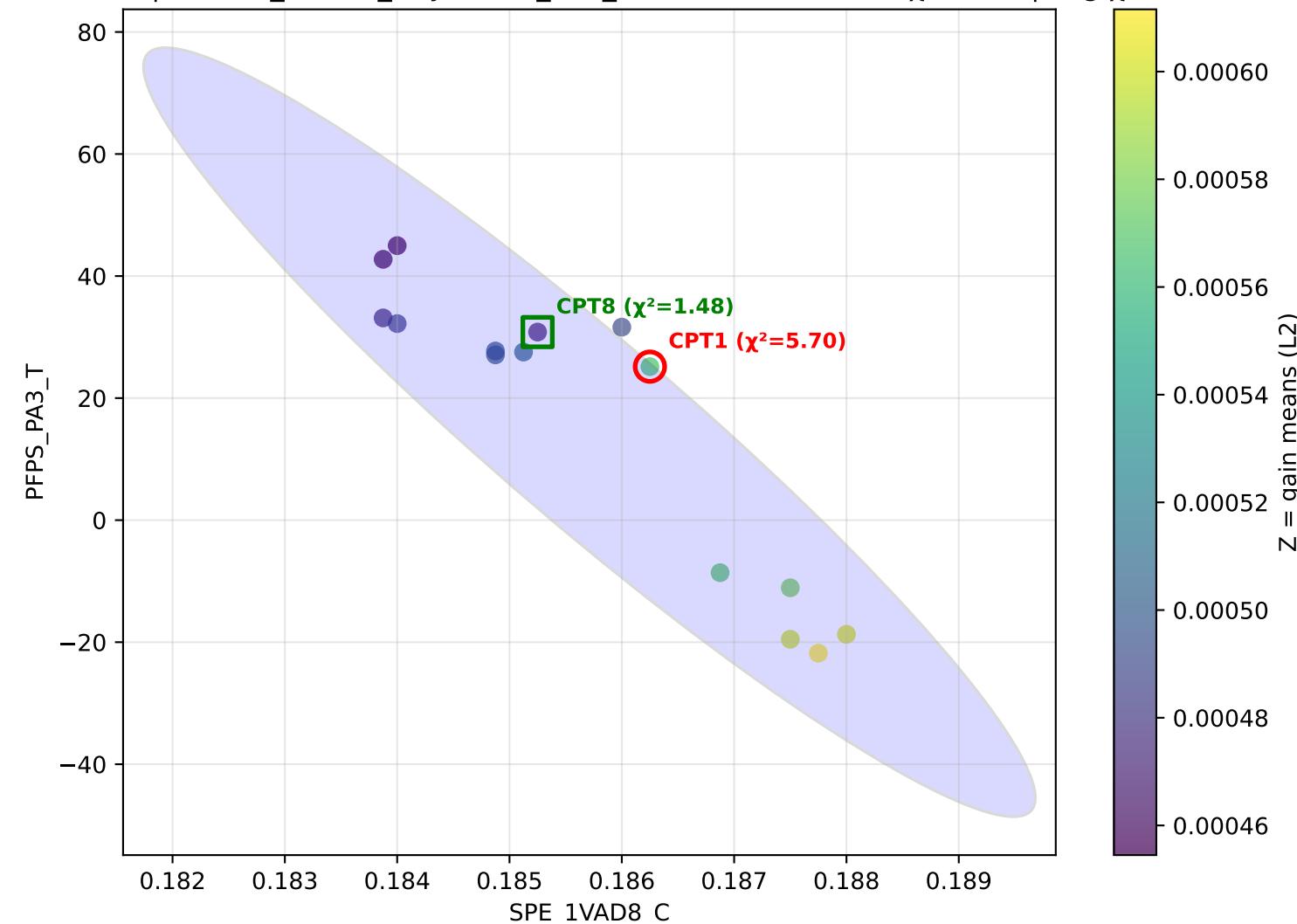
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA3\_T z=H3 — H3 CPT1  $\chi^2=22.39$  | avg  $\chi^2=36.07$



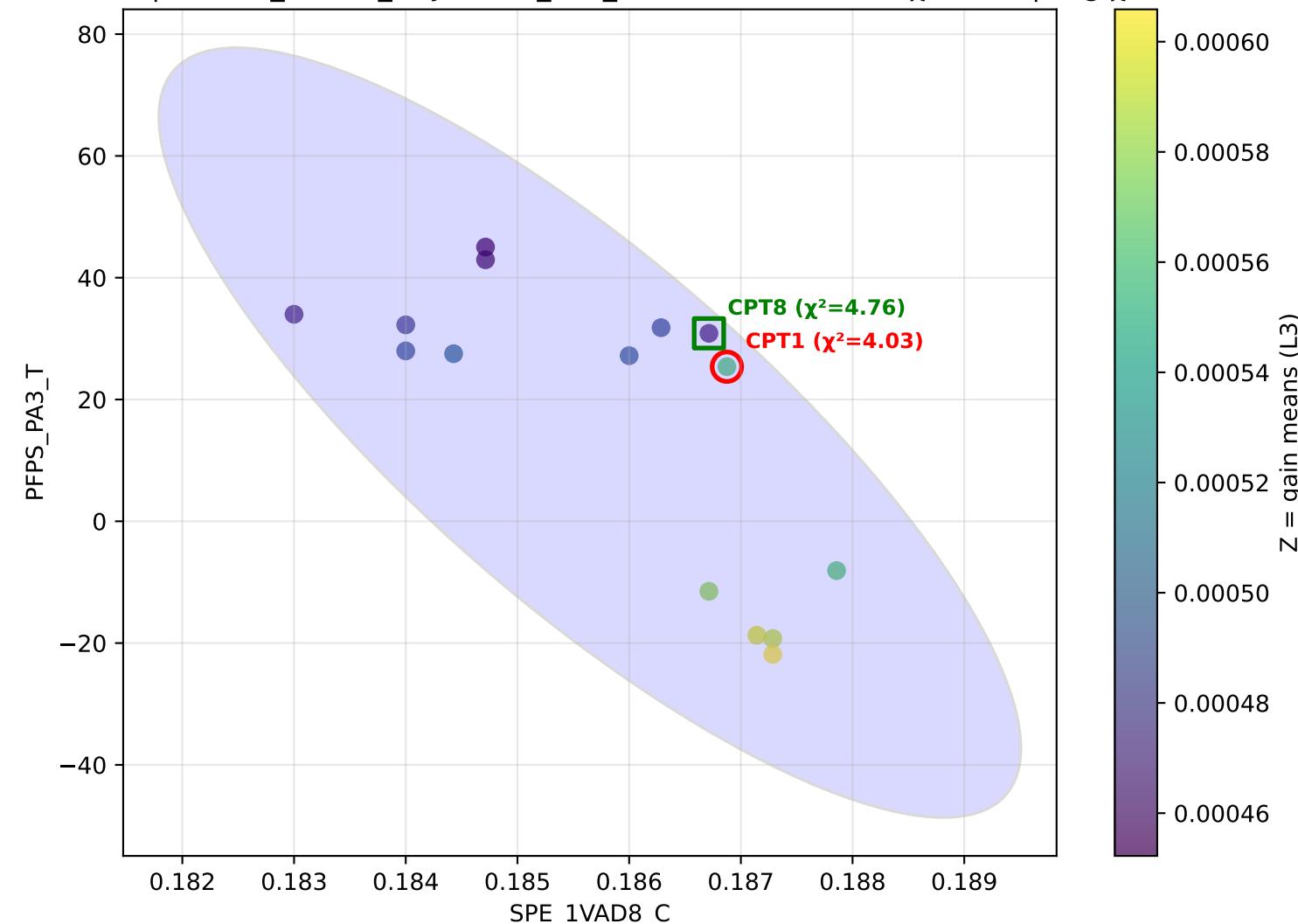




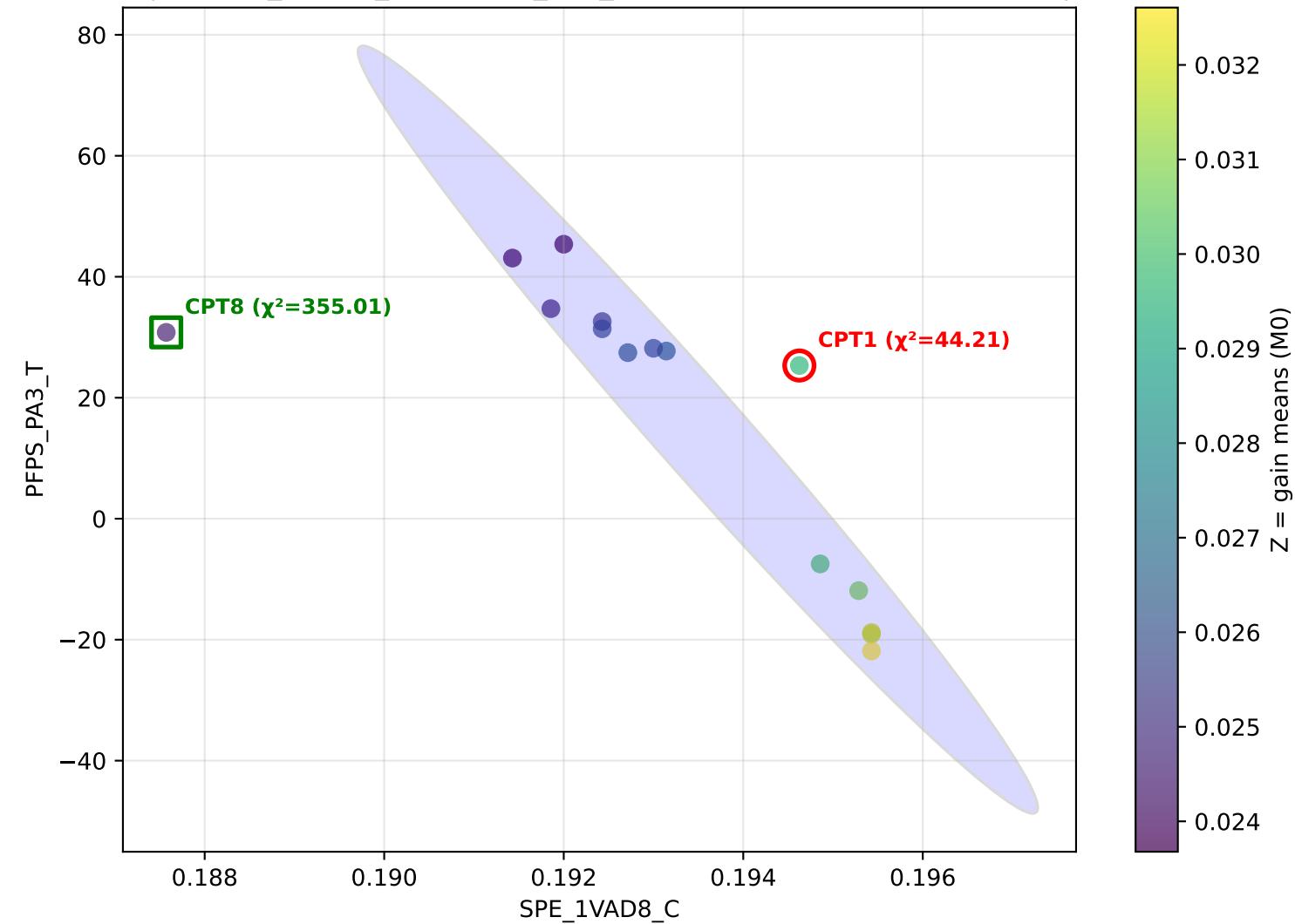
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA3\_T z=L2 — L2 CPT1  $\chi^2=5.70$  | avg  $\chi^2=36.07$



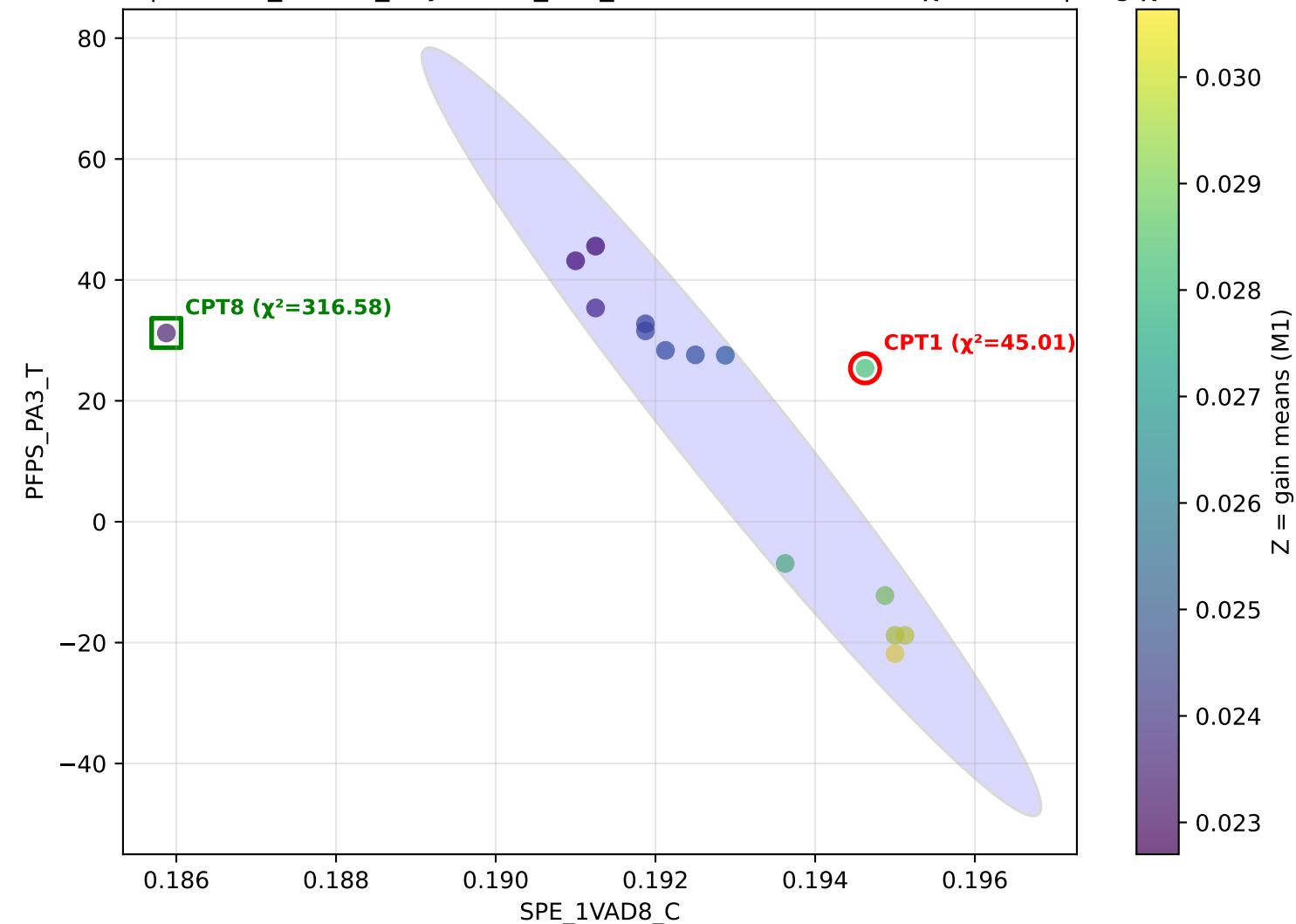
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA3\_T z=L3 — L3 CPT1  $\chi^2=4.03$  | avg  $\chi^2=36.07$



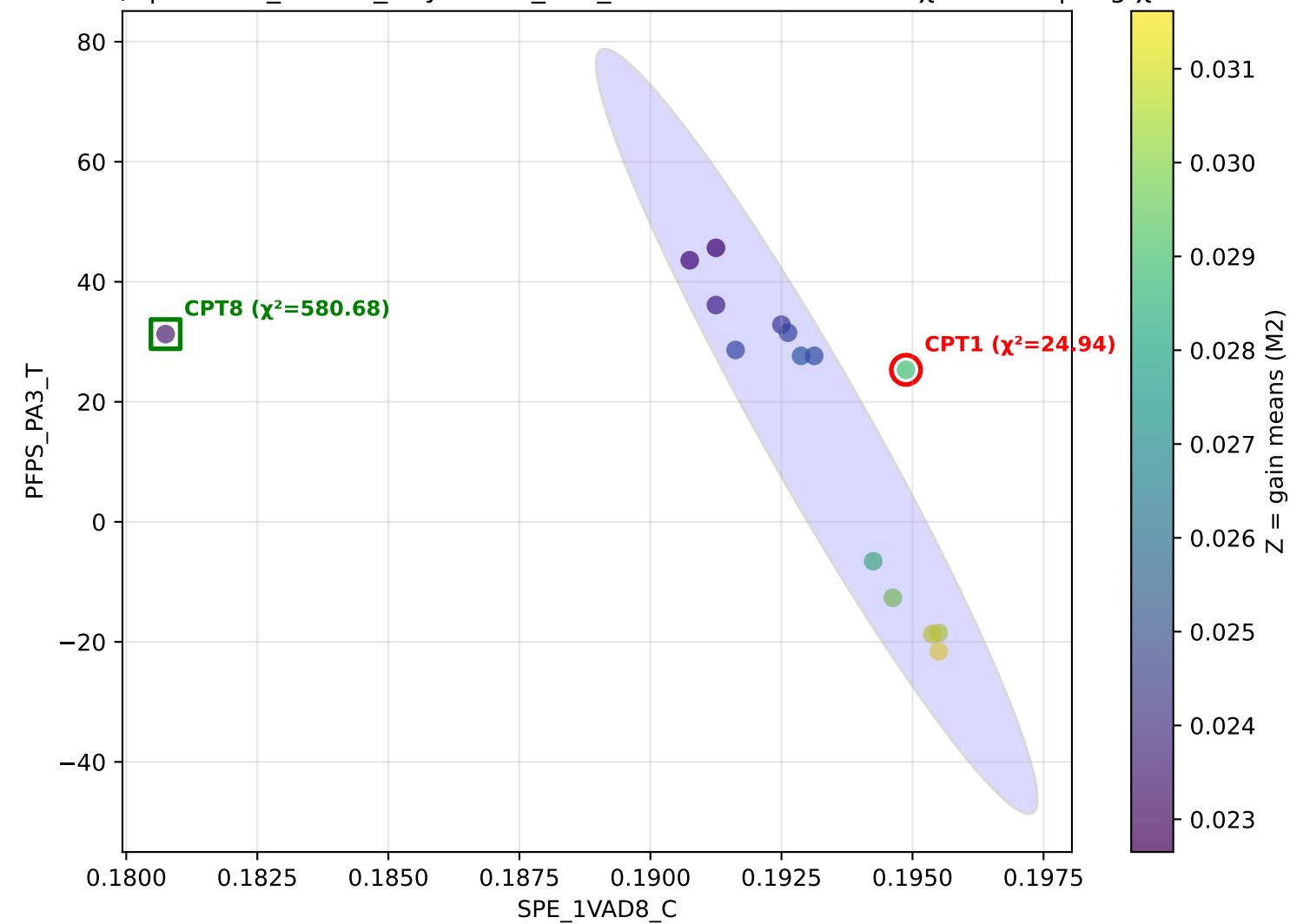
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA3\_T z=M0 — M0 CPT1  $\chi^2=44.21$  | avg  $\chi^2=36.07$



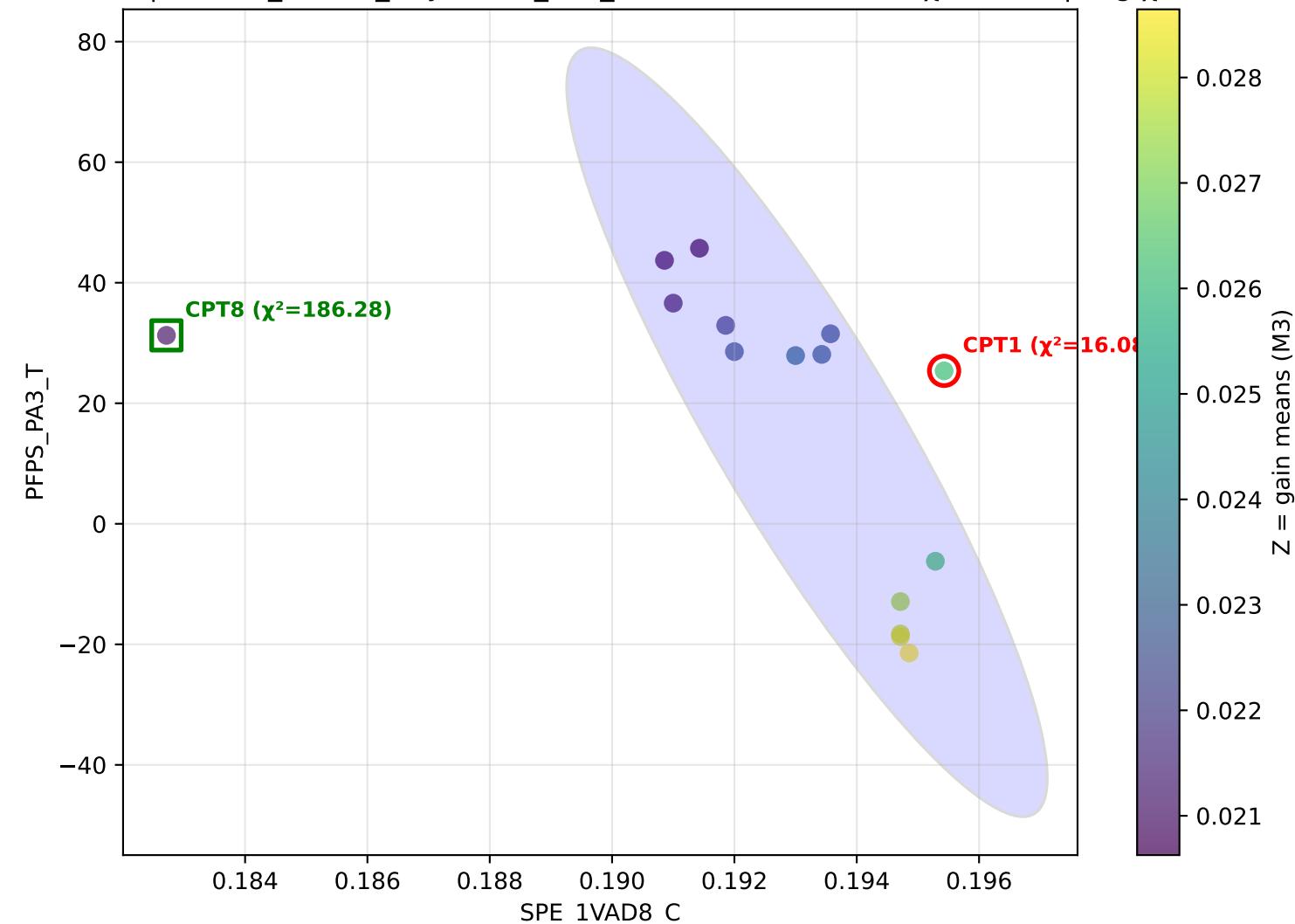
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA3\_T z=M1 — M1 CPT1  $\chi^2=45.01$  | avg  $\chi^2=36.07$



withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA3\_T z=M2 — M2 CPT1  $\chi^2=24.94$  | avg  $\chi^2=36.07$



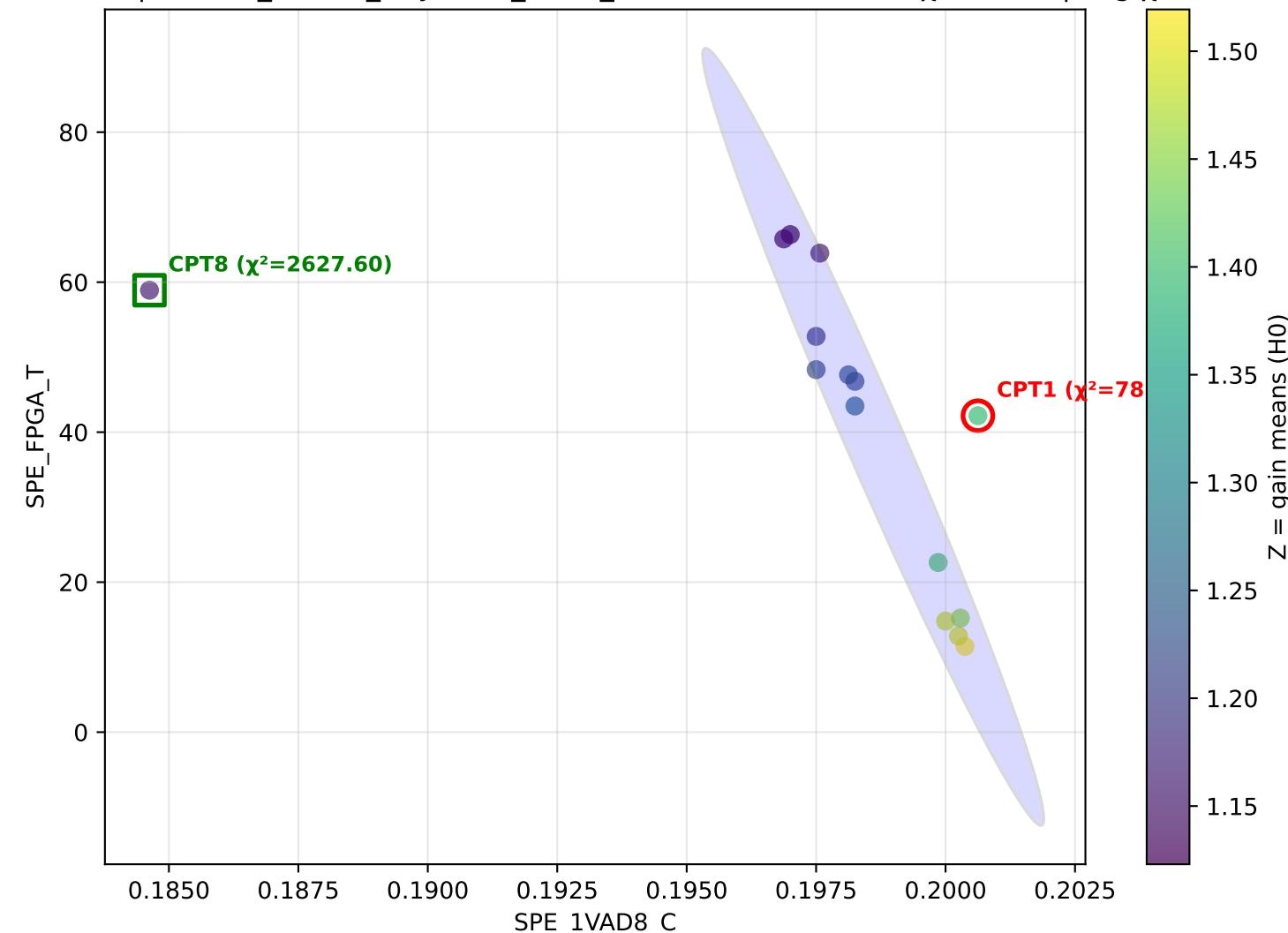
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA3\_T z=M3 — M3 CPT1  $\chi^2=16.08$  | avg  $\chi^2=36.07$



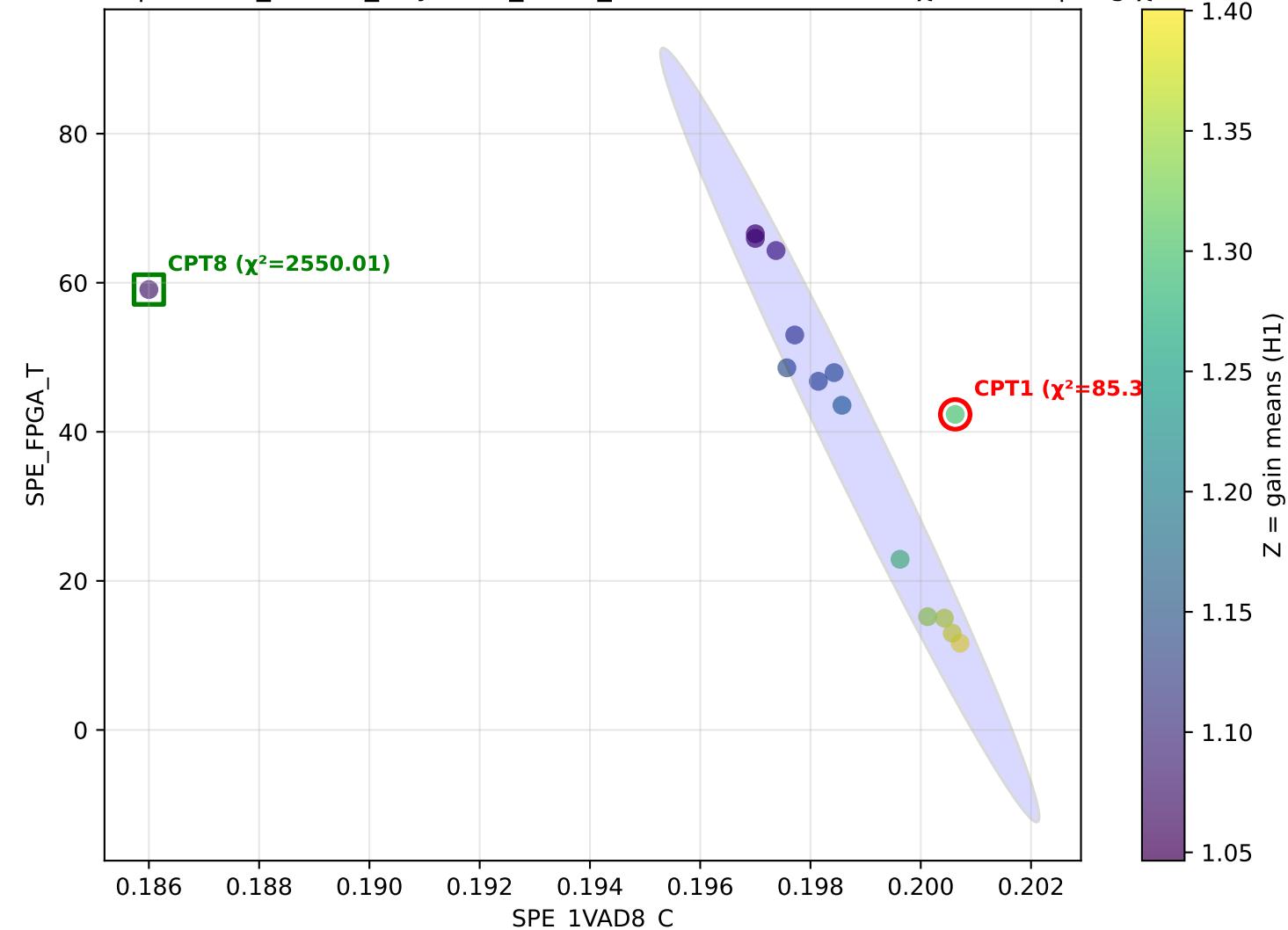
Pair: SPE\_1VAD8\_C vs SPE\_FPGA\_T

Average  $\chi^2$ (CPT1) across settings: 33.69

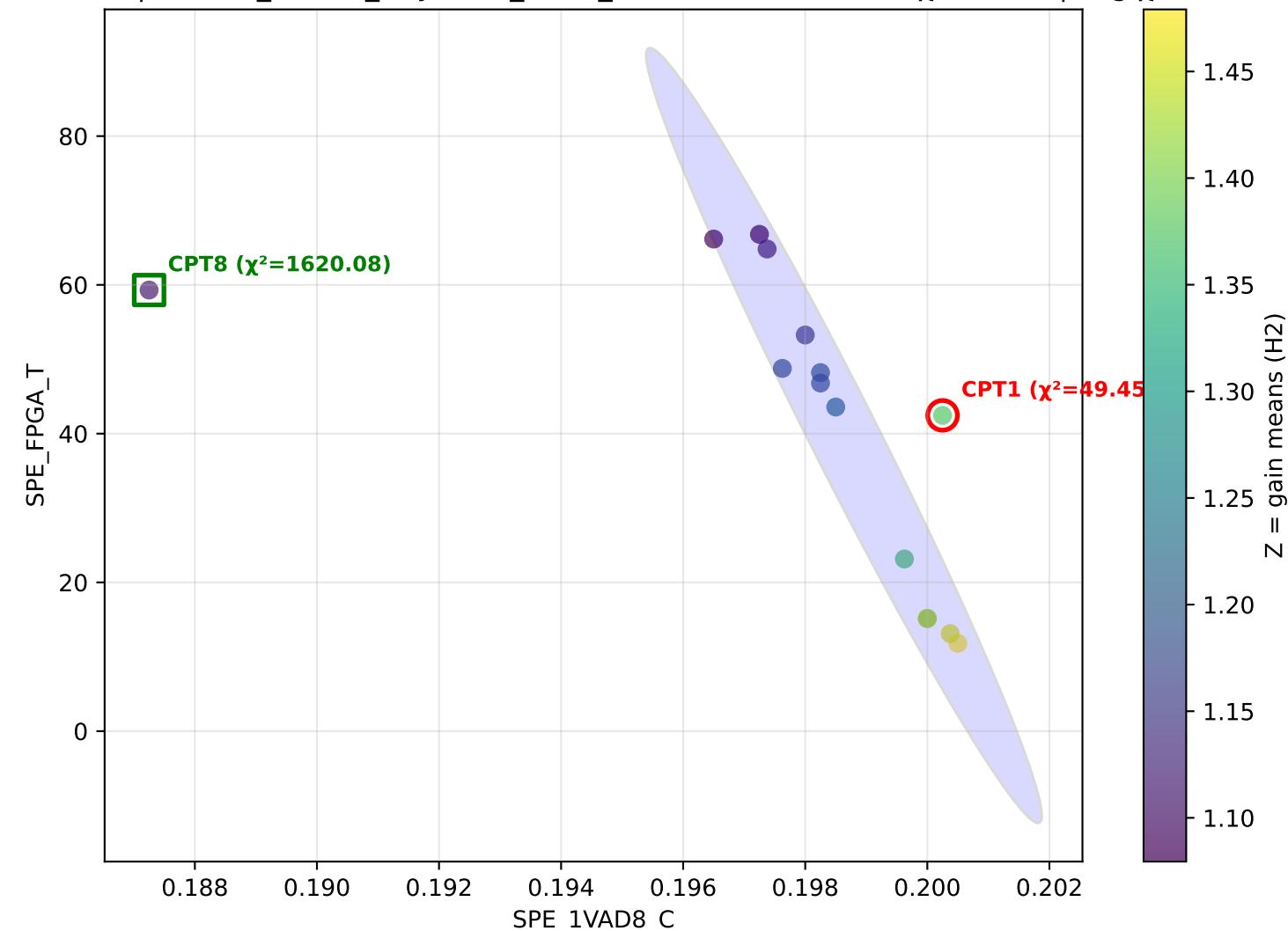
ithCPT1) | x=SPE\_1VAD8\_C y=SPE\_FPGA\_T z=H0 — H0 CPT1  $\chi^2=78.01$  | avg  $\chi^2=33.69$



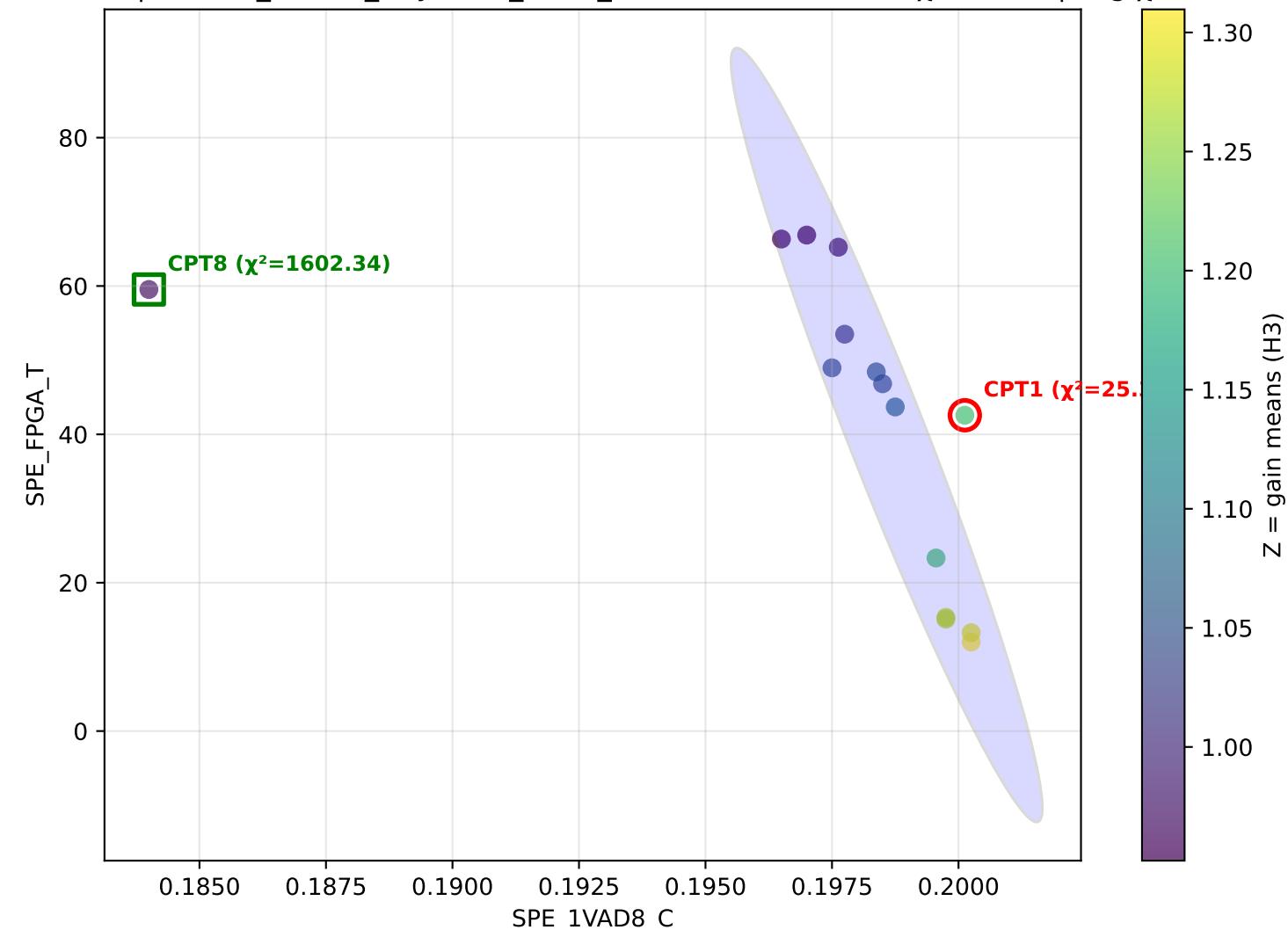
ithCPT1) | x=SPE\_1VAD8\_C y=SPE\_FPGA\_T z=H1 — H1 CPT1  $\chi^2=85.33$  | avg  $\chi^2=33.69$



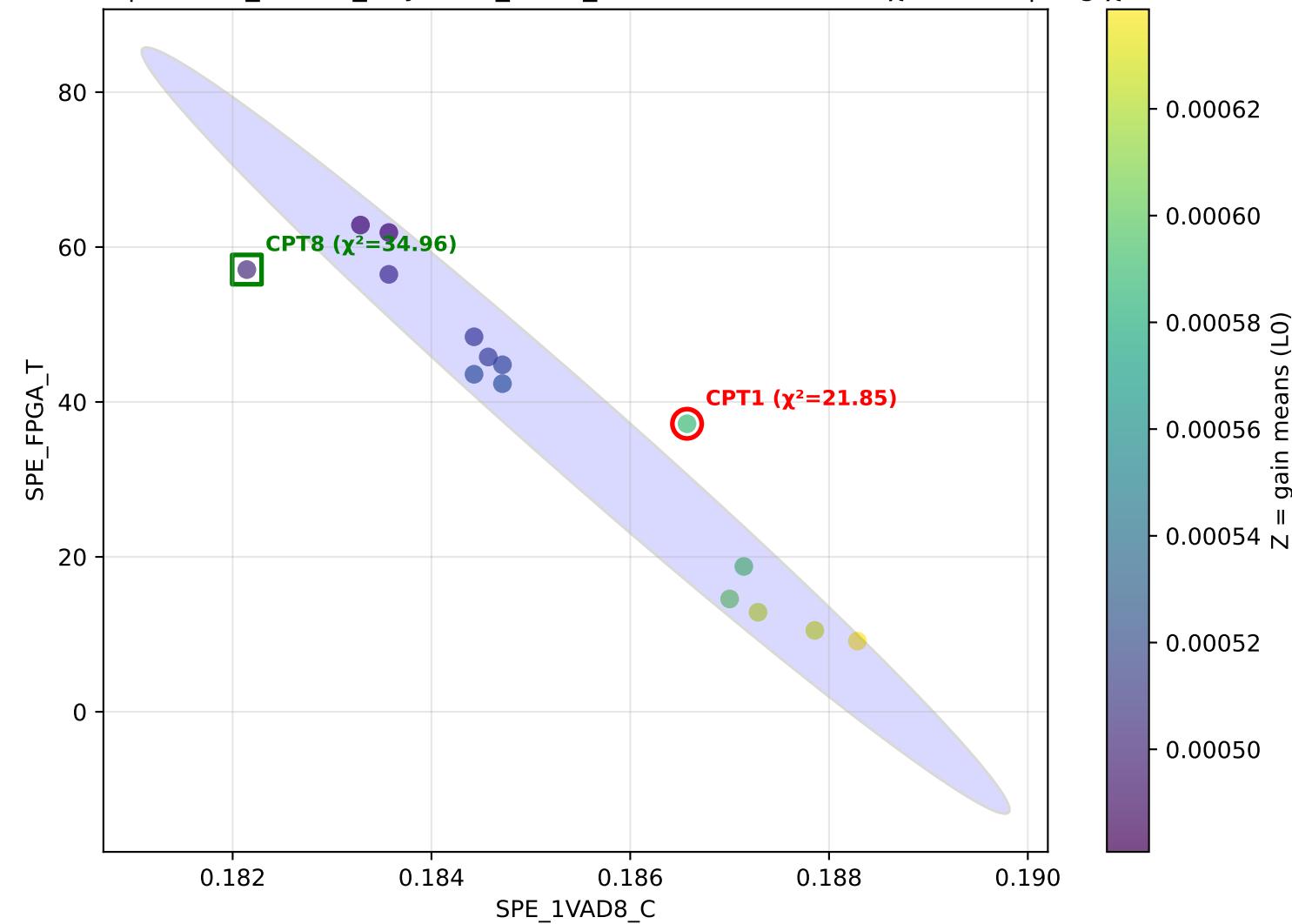
ithCPT1) | x=SPE\_1VAD8\_C y=SPE\_FPGA\_T z=H2 — H2 CPT1  $\chi^2=49.45$  | avg  $\chi^2=33.69$



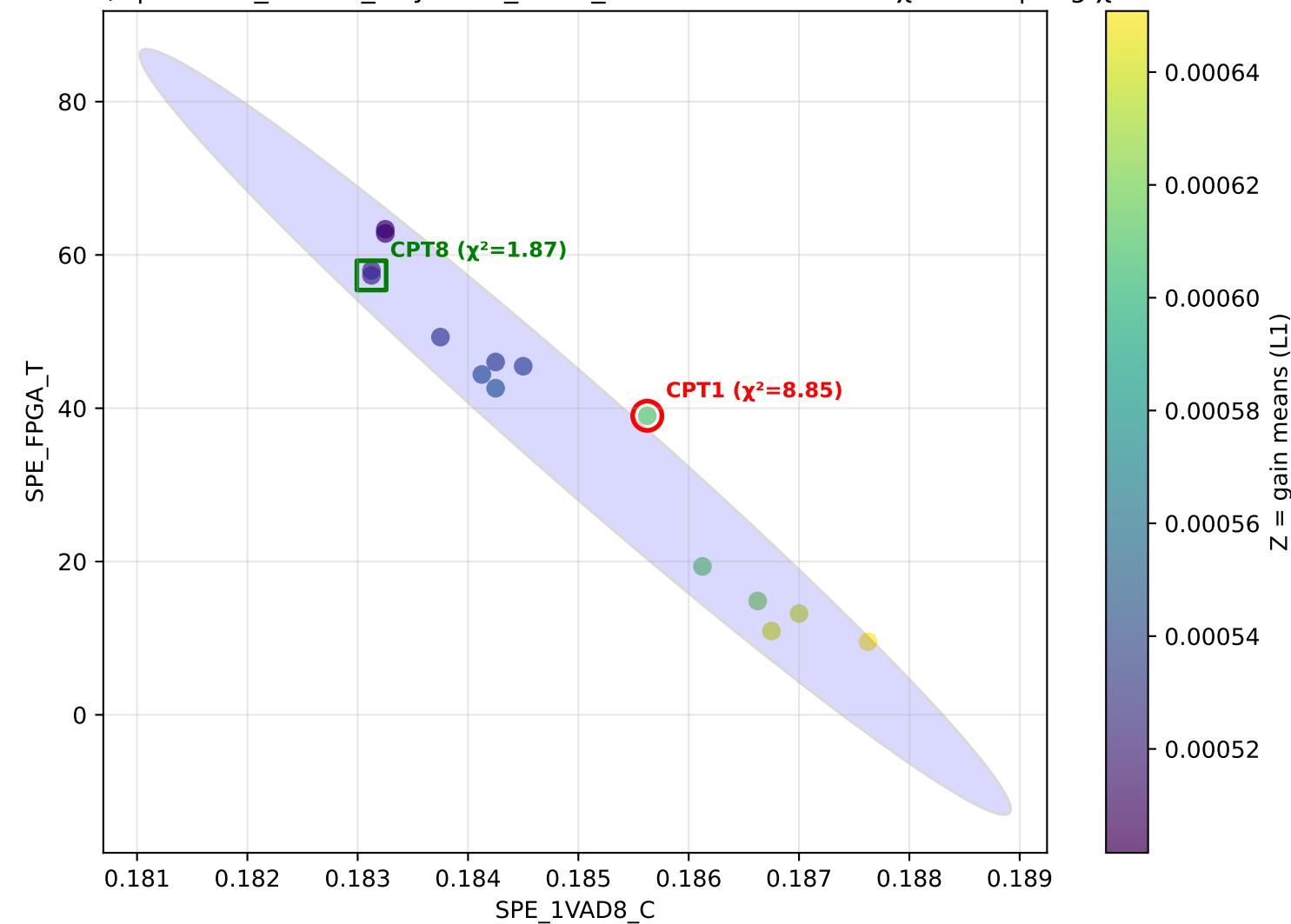
ithCPT1) | x=SPE\_1VAD8\_C y=SPE\_FPGA\_T z=H3 — H3 CPT1  $\chi^2=25.39$  | avg  $\chi^2=33.69$



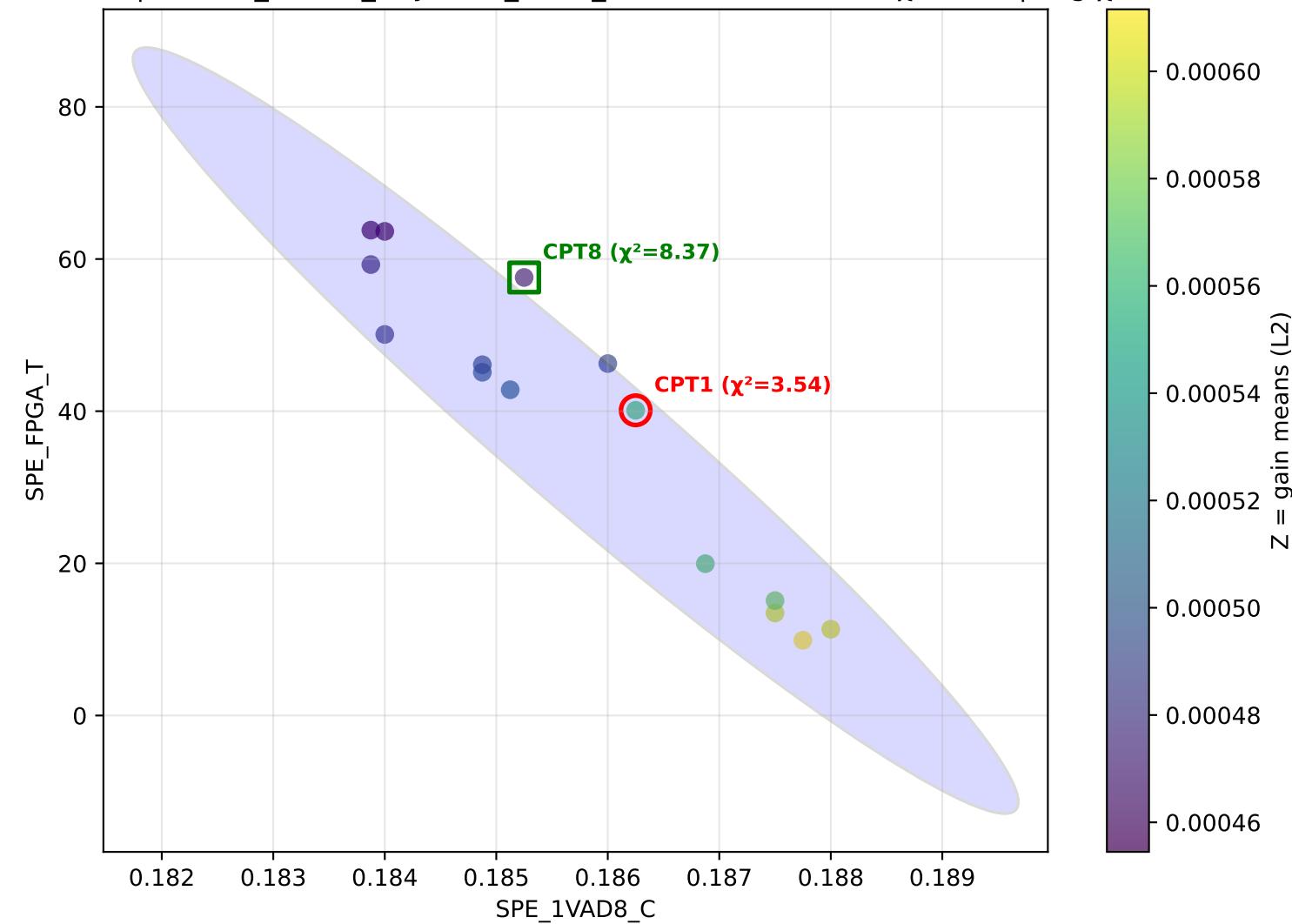
thCPT1) | x=SPE\_1VAD8\_C y=SPE\_FPGA\_T z=L0 — L0 CPT1  $\chi^2=21.85$  | avg  $\chi^2=33.69$



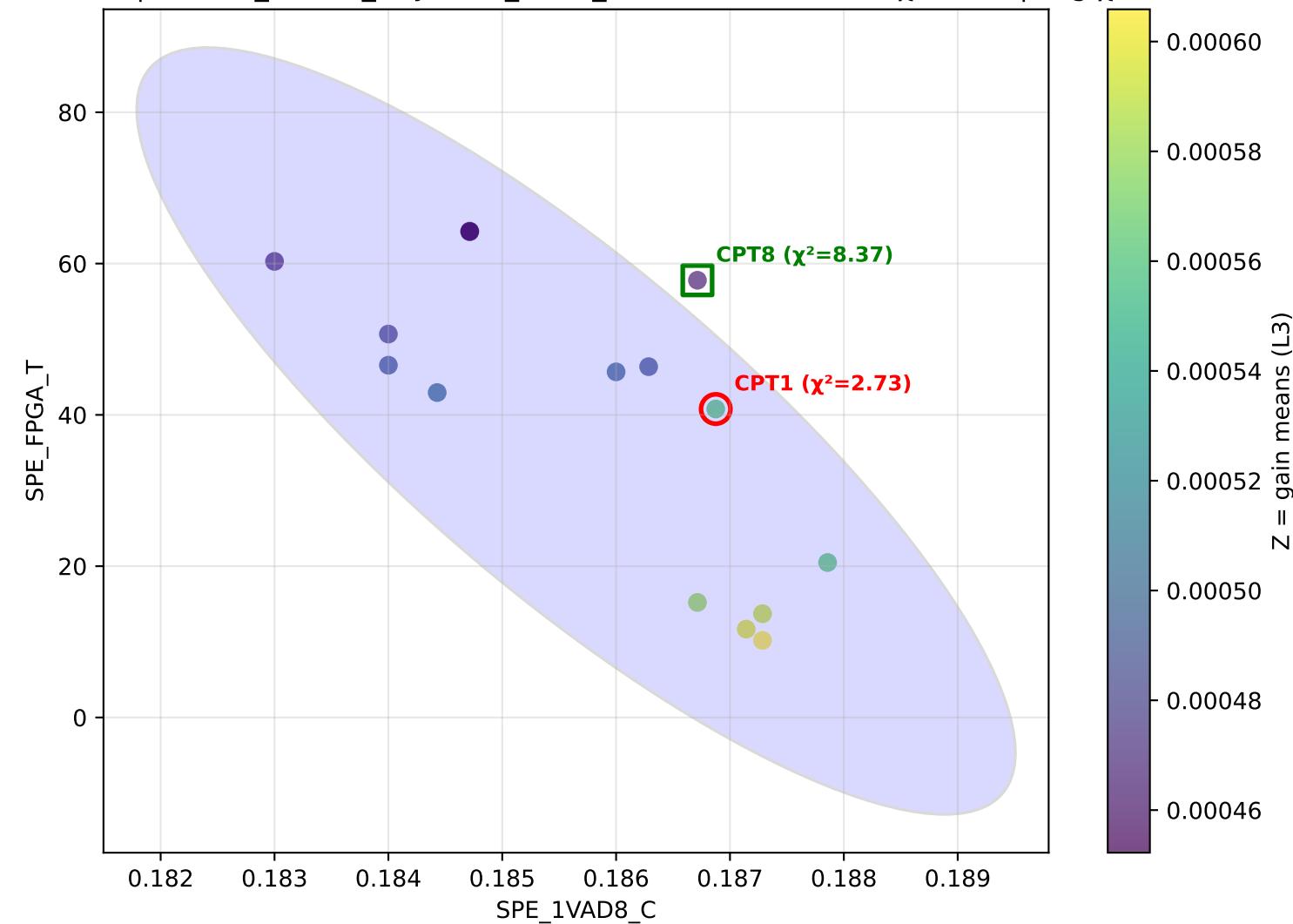
ithCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{SPE\_FPGA\_T}$   $z=L1$  — L1 CPT1  $\chi^2=8.85$  | avg  $\chi^2=33.69$



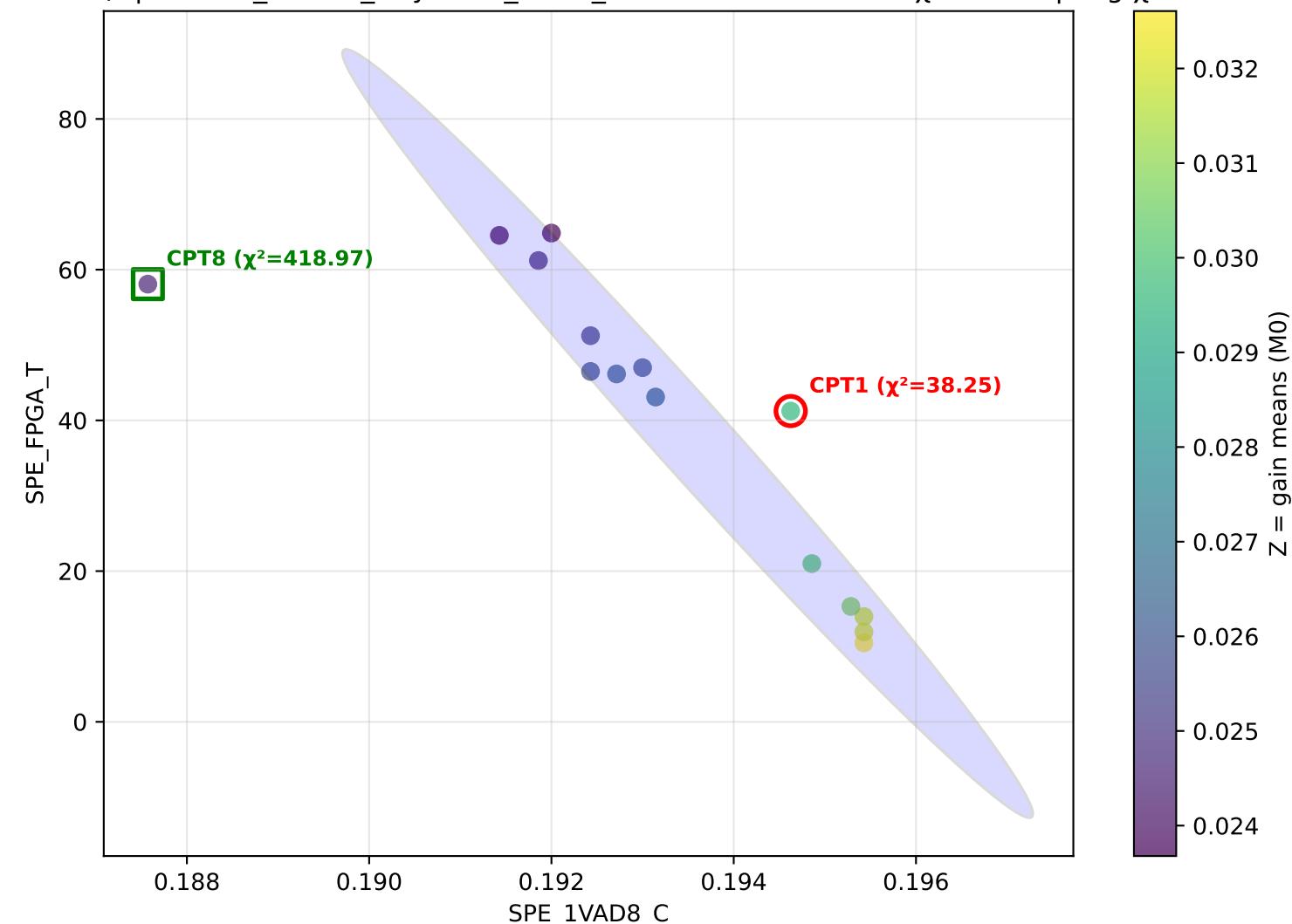
ithCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{SPE\_FPGA\_T}$   $z=L2$  — L2 CPT1  $\chi^2=3.54$  | avg  $\chi^2=33.69$



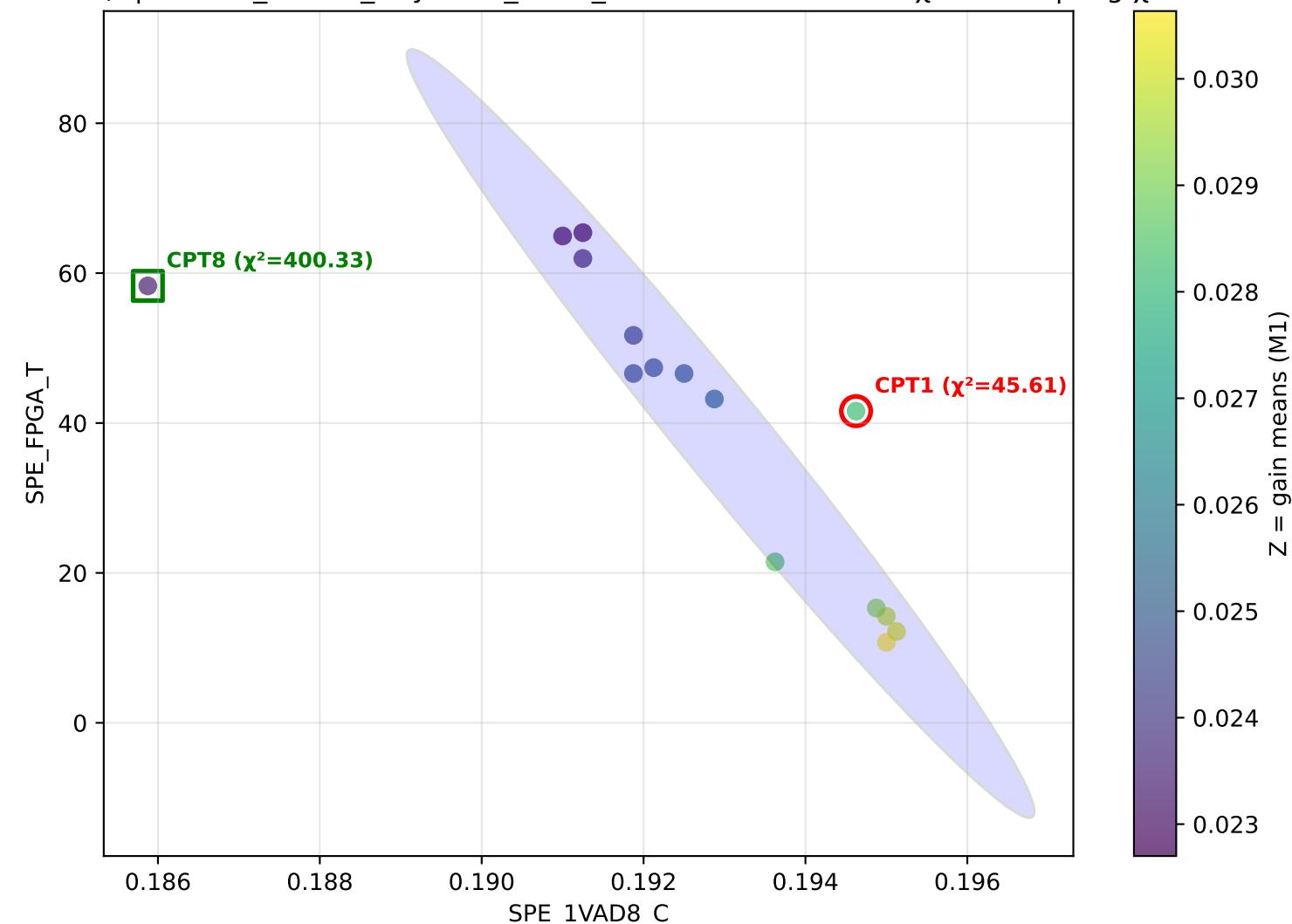
ithCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{SPE\_FPGA\_T}$   $z=L3$  — L3 CPT1  $\chi^2=2.73$  | avg  $\chi^2=33.69$



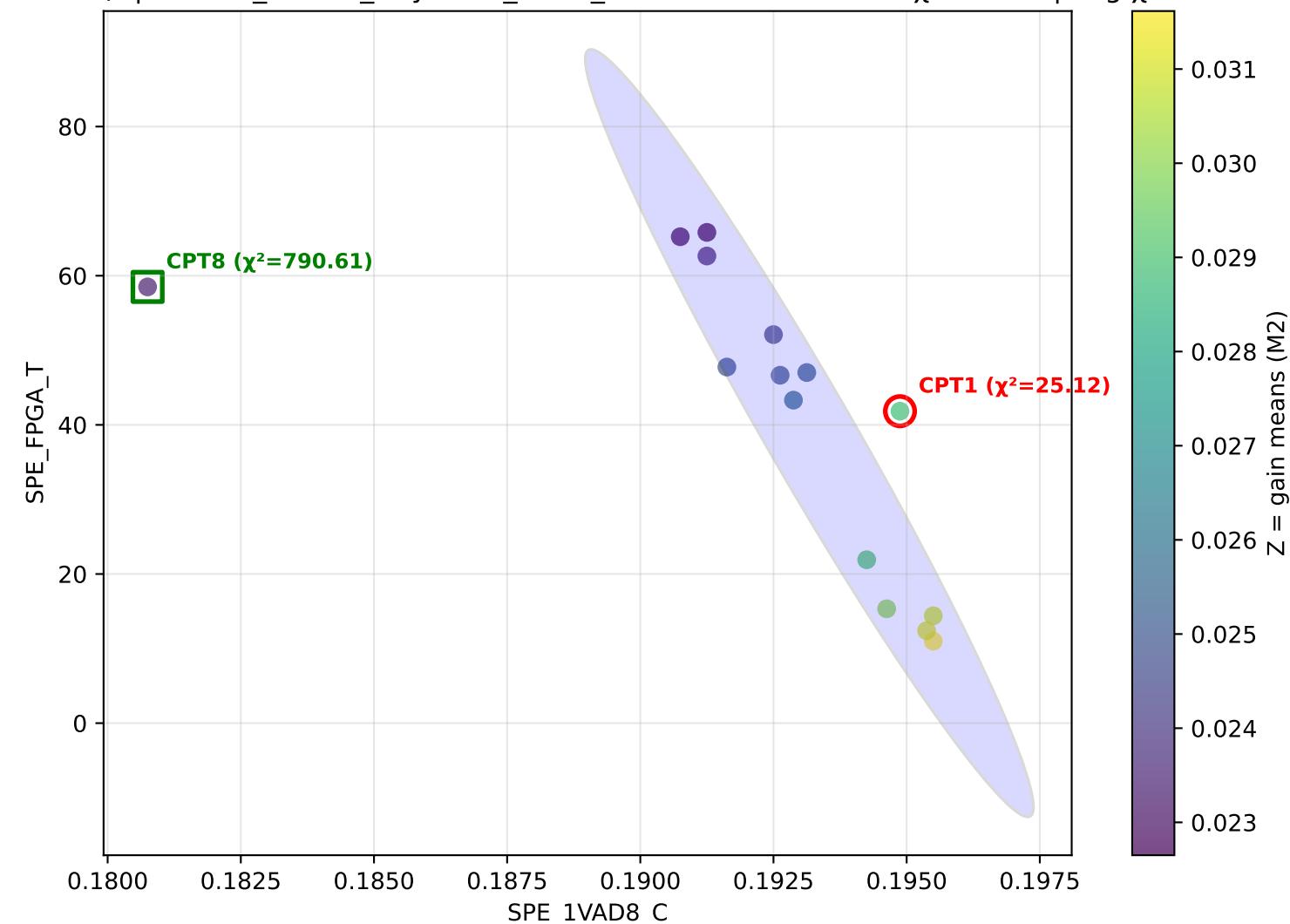
ithCPT1) | x=SPE\_1VAD8\_C y=SPE\_FPGA\_T z=M0 — M0 CPT1  $\chi^2=38.25$  | avg  $\chi^2=33.69$



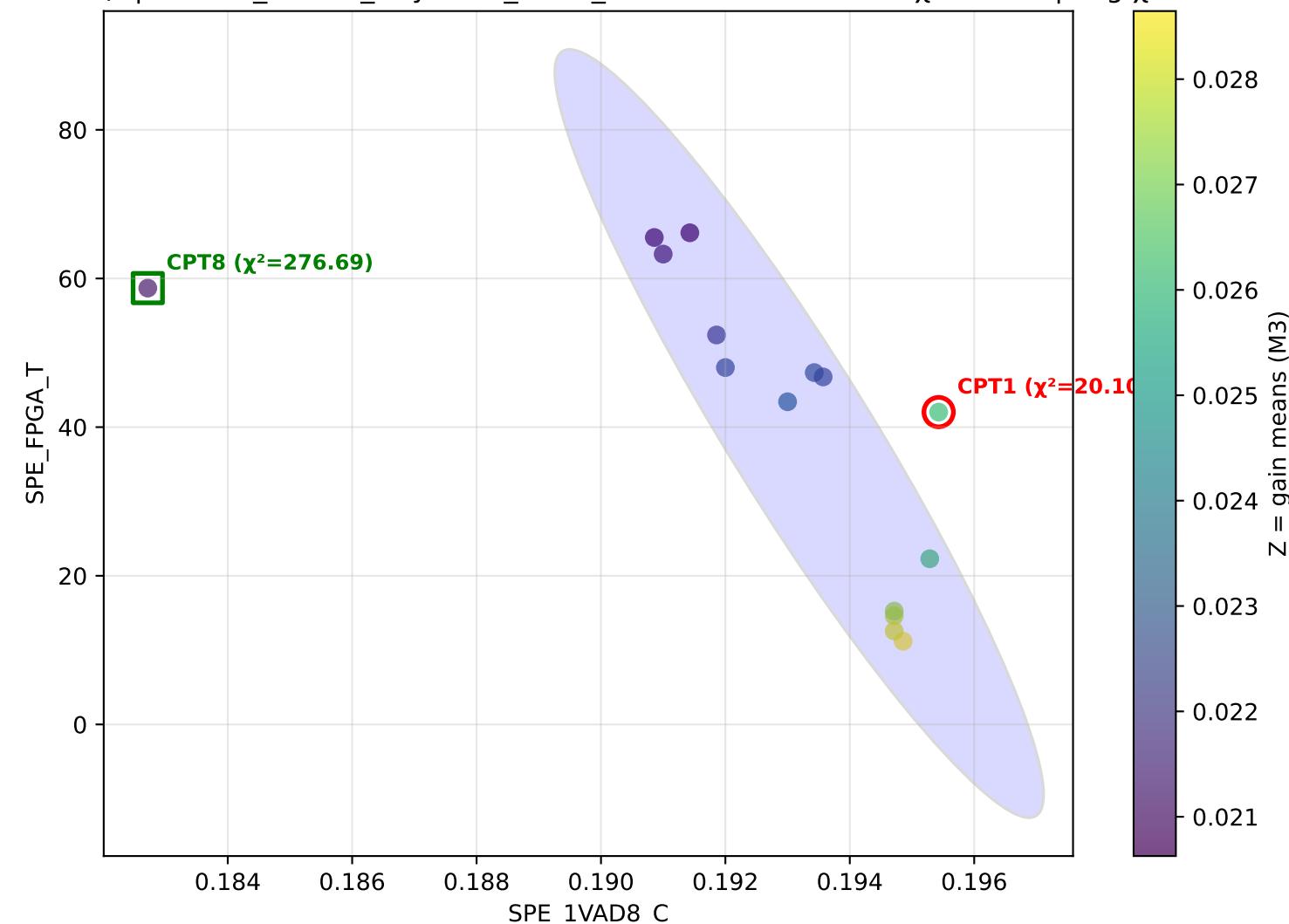
ithCPT1) | x=SPE\_1VAD8\_C y=SPE\_FPGA\_T z=M1 — M1 CPT1  $\chi^2=45.61$  | avg  $\chi^2=33.69$



ithCPT1) | x=SPE\_1VAD8\_C y=SPE\_FPGA\_T z=M2 — M2 CPT1  $\chi^2=25.12$  | avg  $\chi^2=33.69$



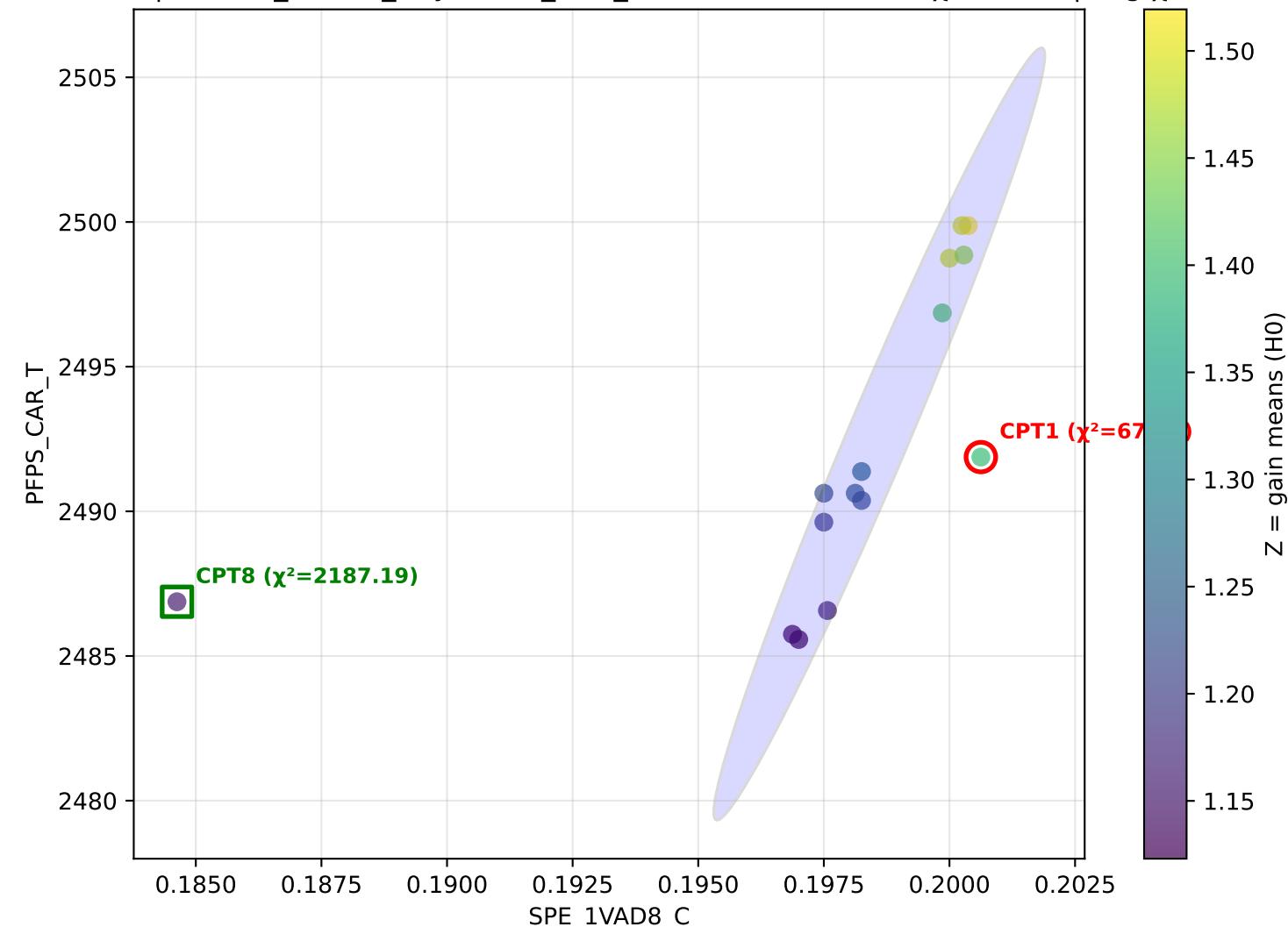
ithCPT1) | x=SPE\_1VAD8\_C y=SPE\_FPGA\_T z=M3 — M3 CPT1  $\chi^2=20.10$  | avg  $\chi^2=33.69$



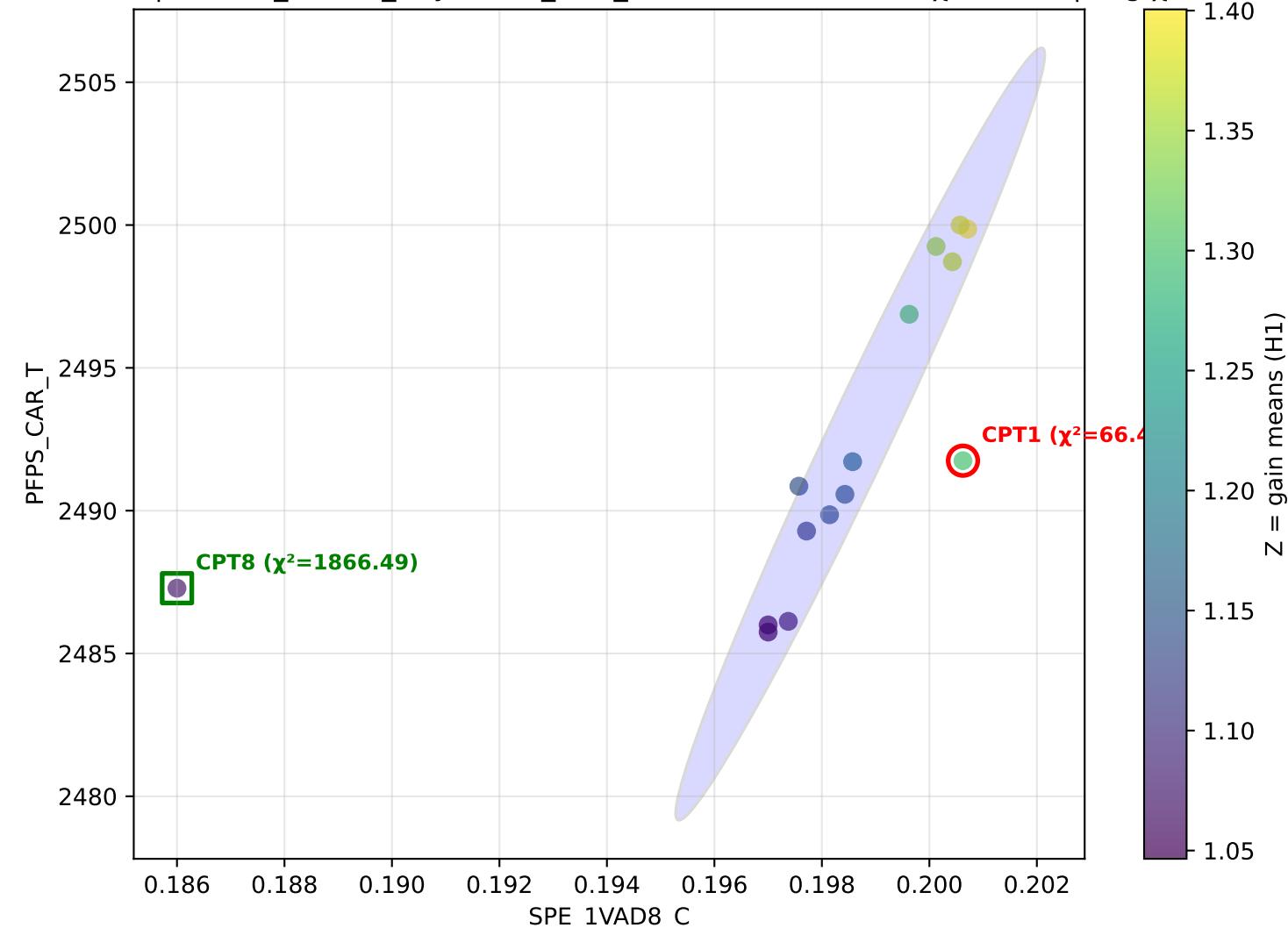
Pair: SPE\_1VAD8\_C vs PFPS\_CAR\_T

Average  $\chi^2$ (CPT1) across settings: 32.59

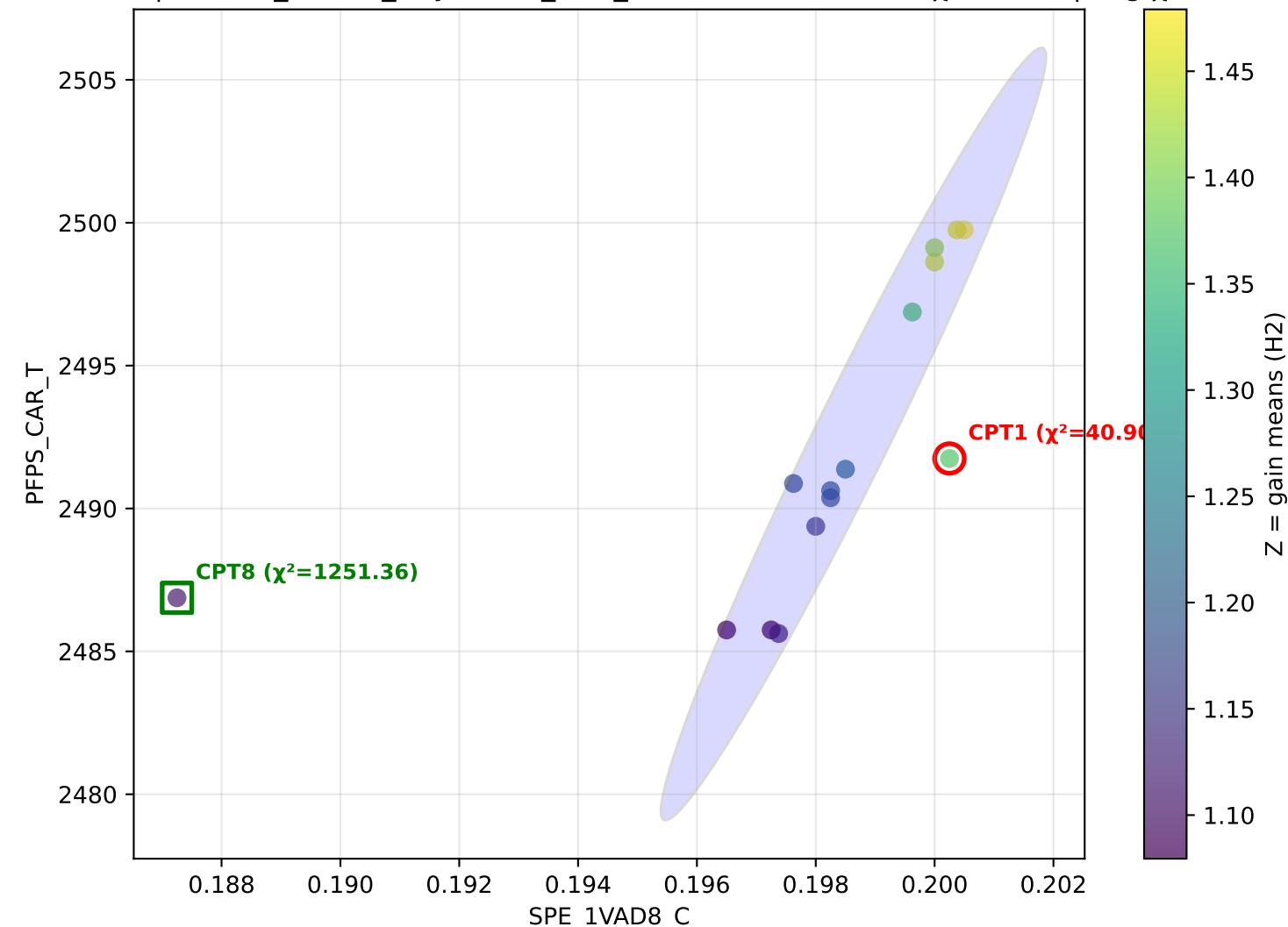
withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_CAR\_T}$   $z=\text{H0}$  —  $\text{H0}$  CPT1  $\chi^2=67.82$  | avg  $\chi^2=32.59$



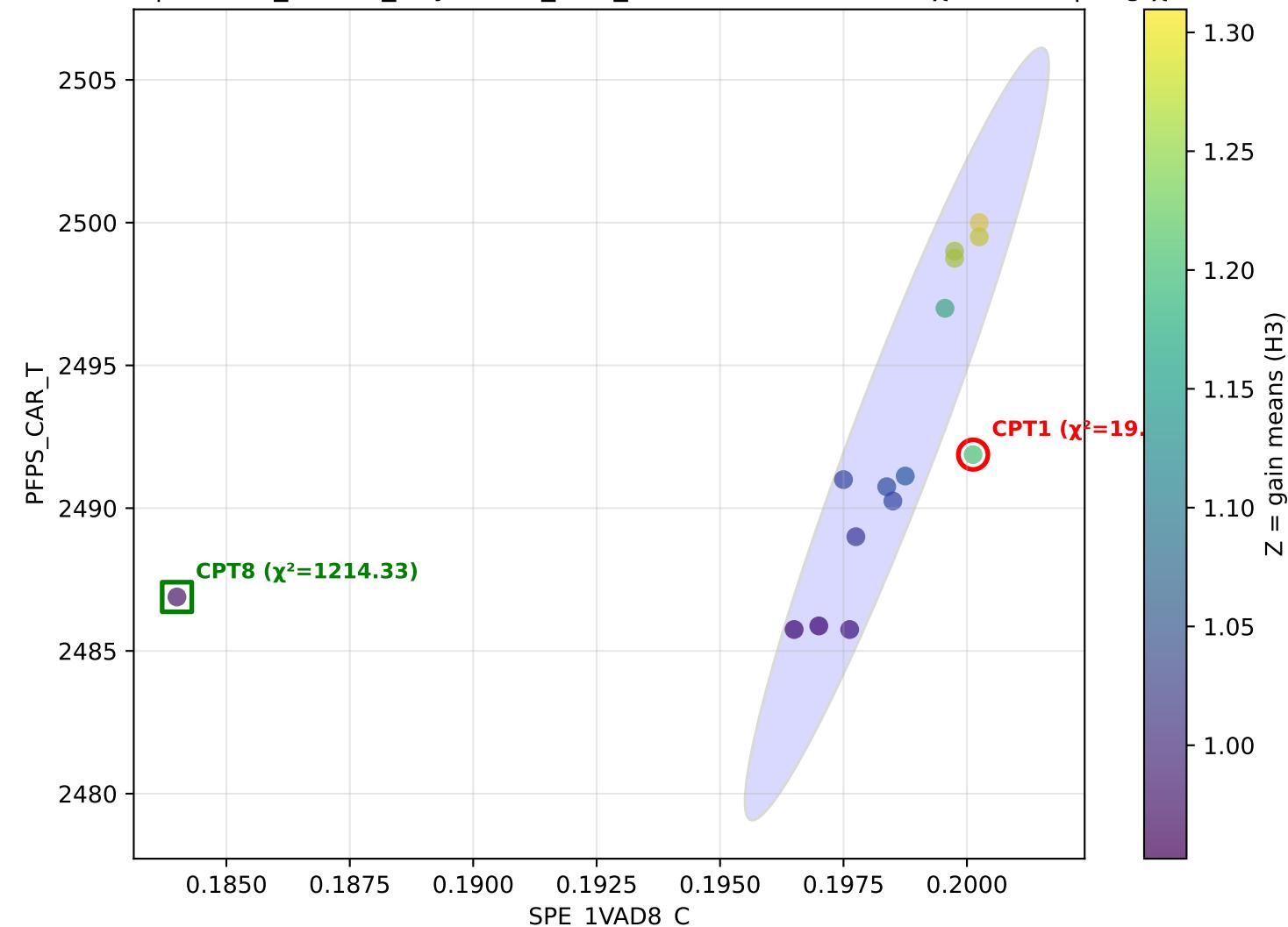
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_CAR\_T z=H1 — H1 CPT1  $\chi^2=66.42$  | avg  $\chi^2=32.59$



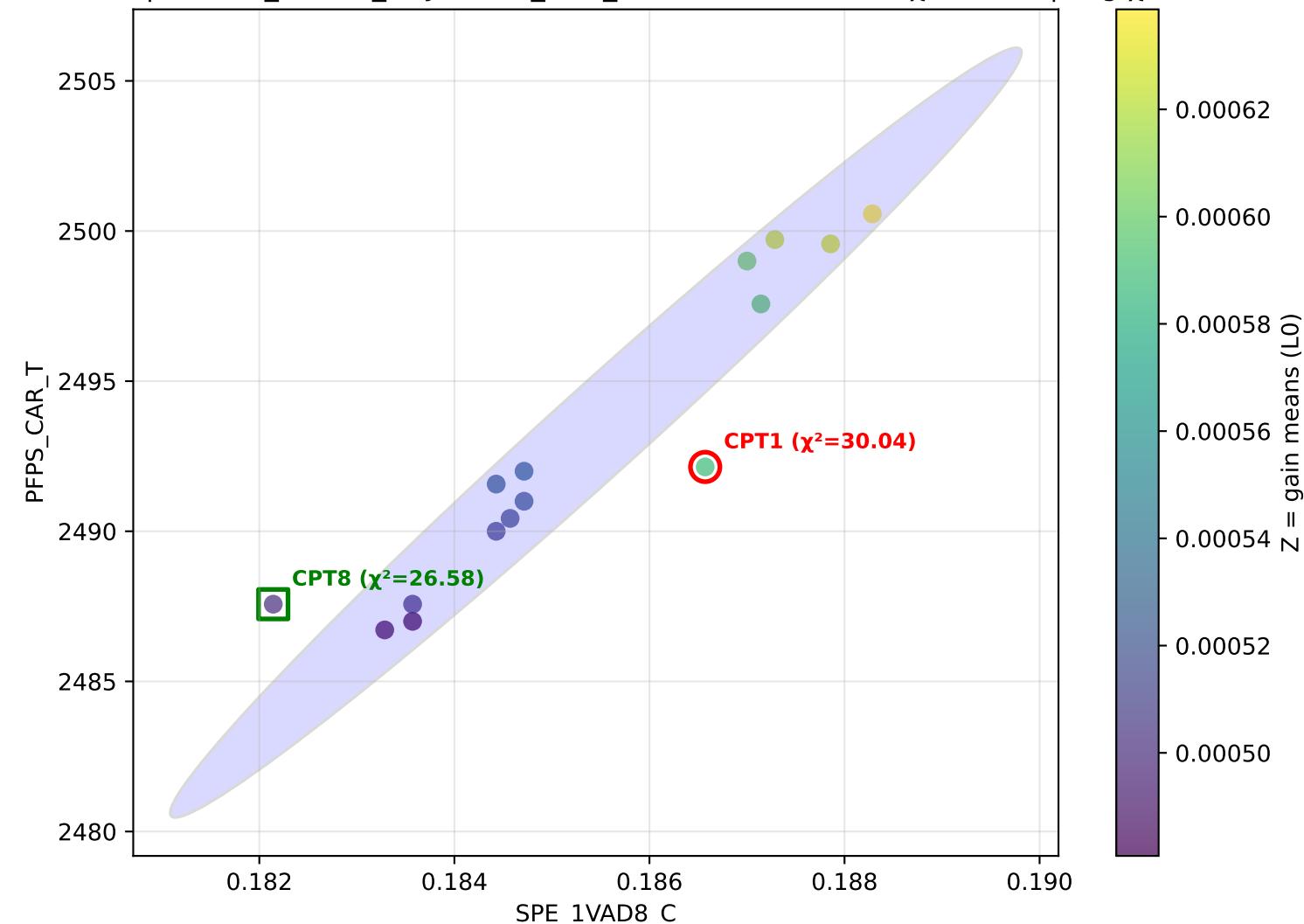
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_CAR\_T z=H2 — H2 CPT1  $\chi^2=40.90$  | avg  $\chi^2=32.59$



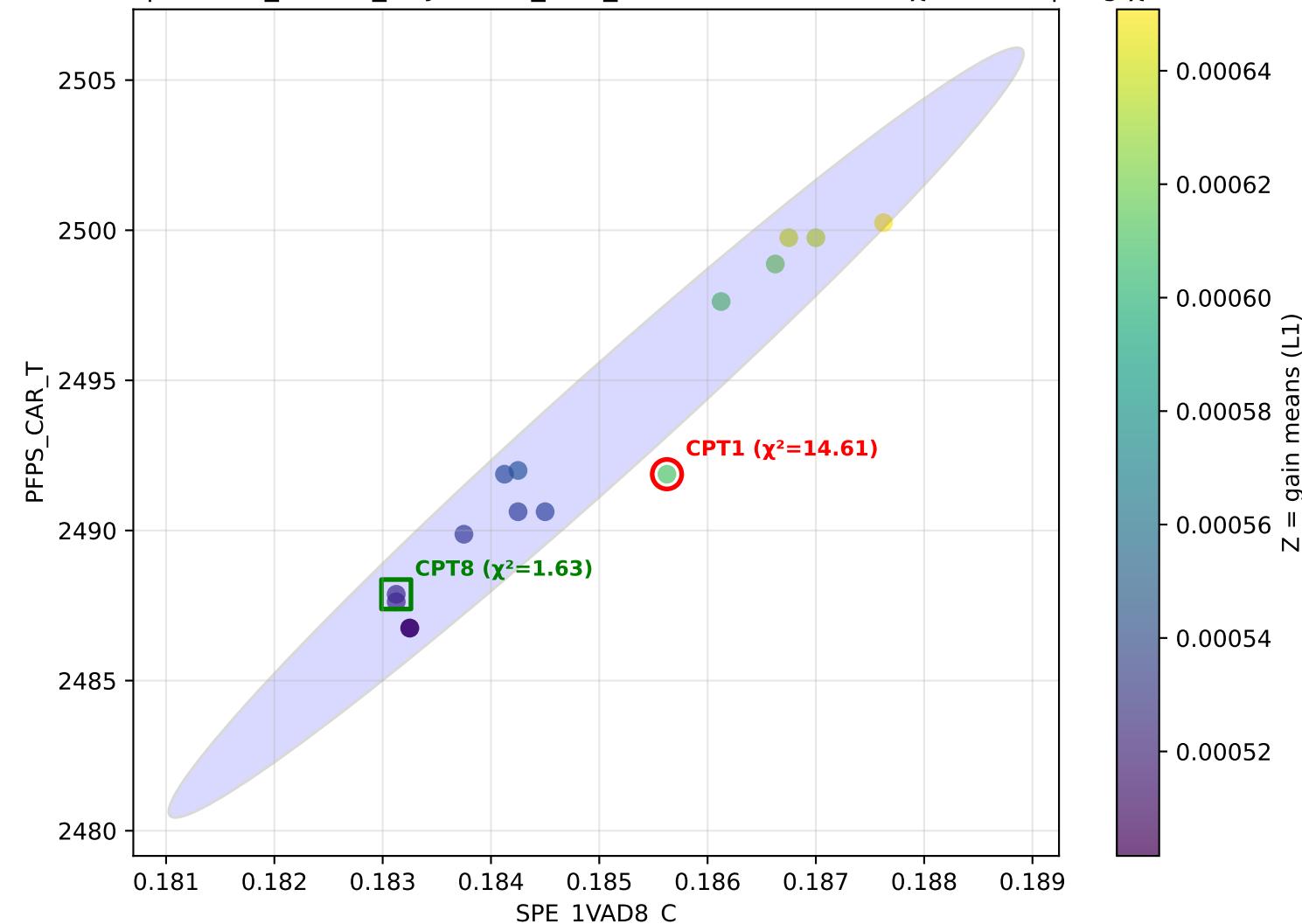
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_CAR\_T z=H3 — H3 CPT1  $\chi^2=19.70$  | avg  $\chi^2=32.59$



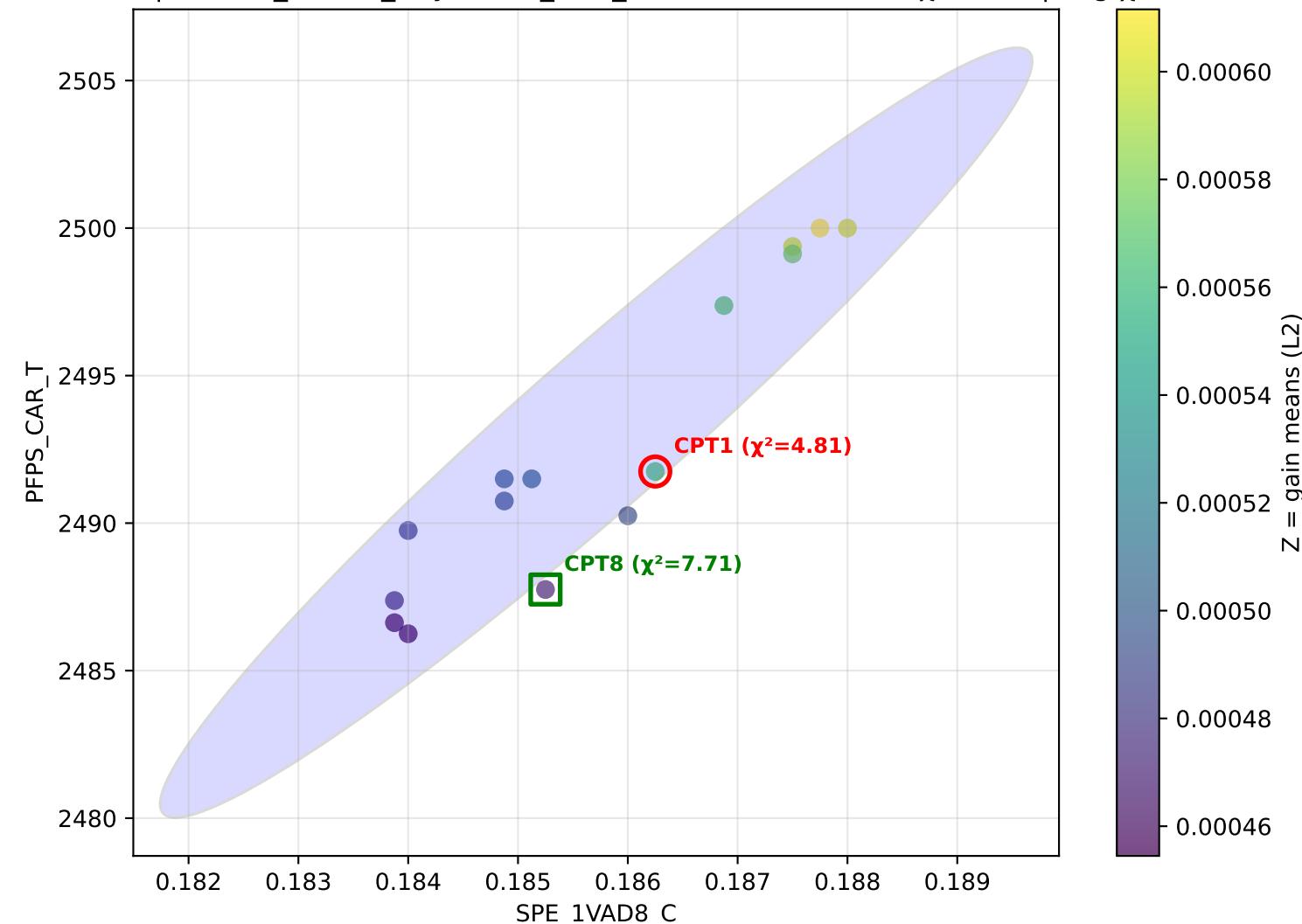
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_CAR\_T z=L0 — L0 CPT1  $\chi^2=30.04$  | avg  $\chi^2=32.59$

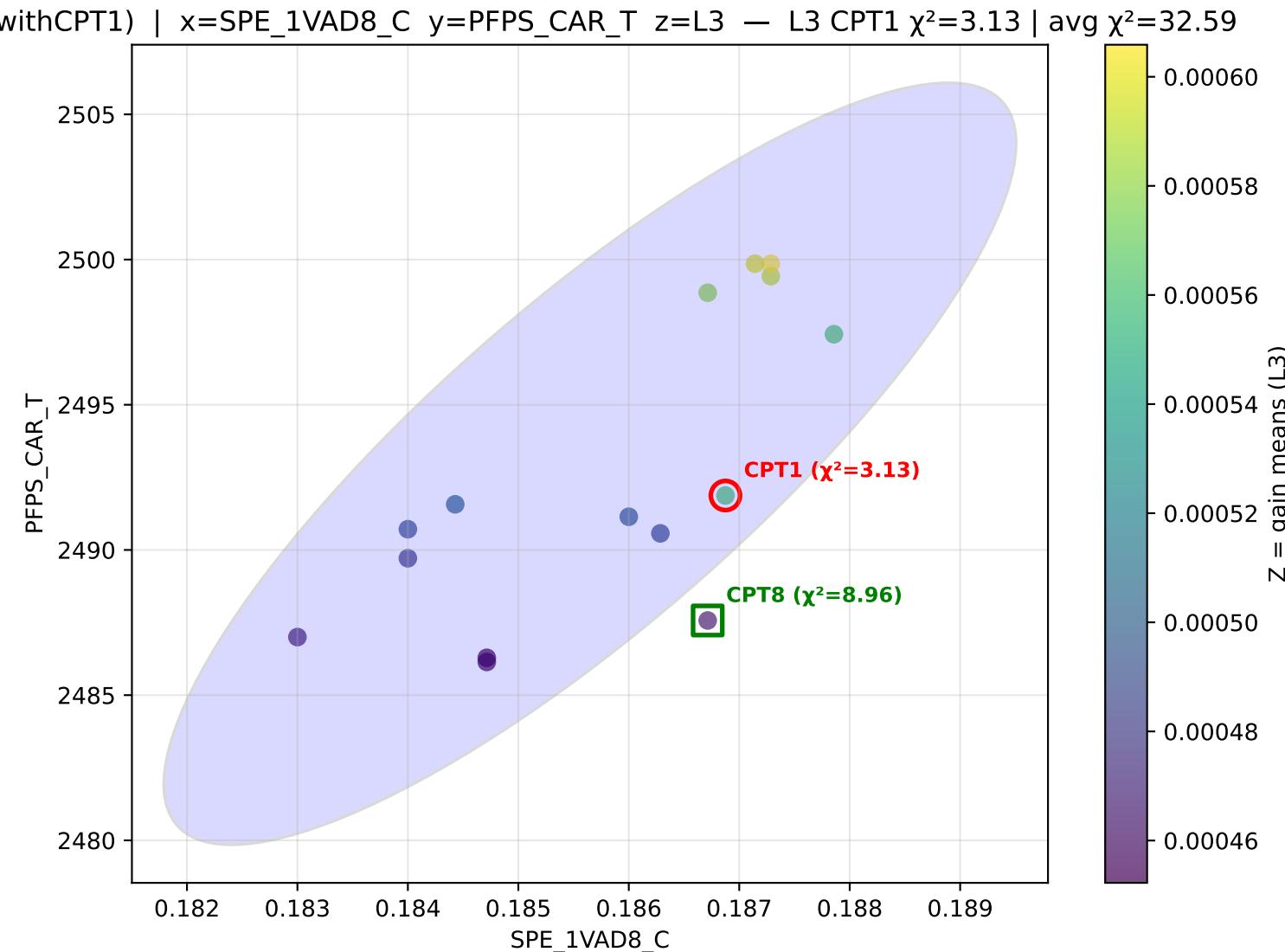


withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_CAR\_T z=L1 — L1 CPT1  $\chi^2=14.61$  | avg  $\chi^2=32.59$

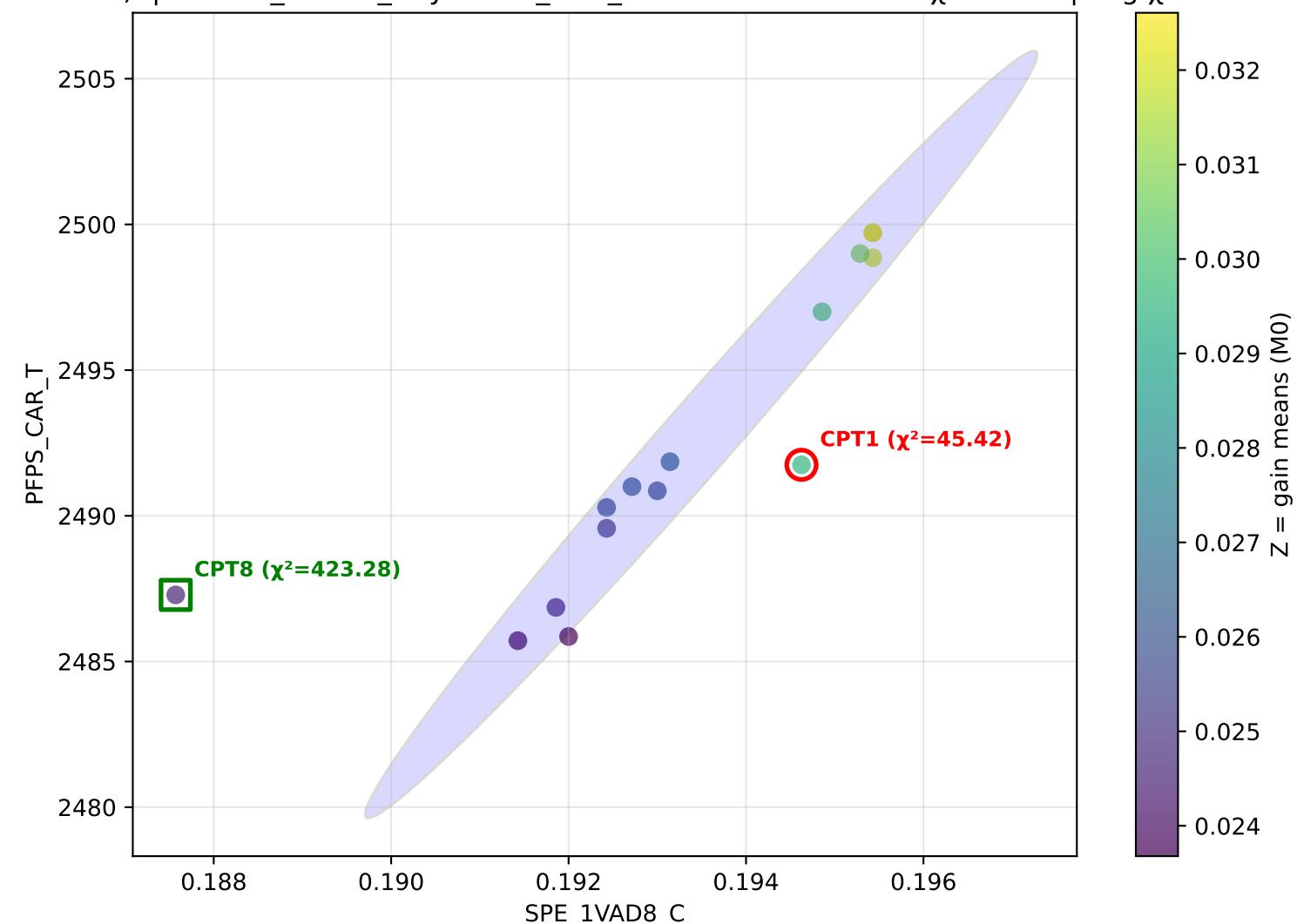


withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_CAR\_T z=L2 — L2 CPT1  $\chi^2=4.81$  | avg  $\chi^2=32.59$

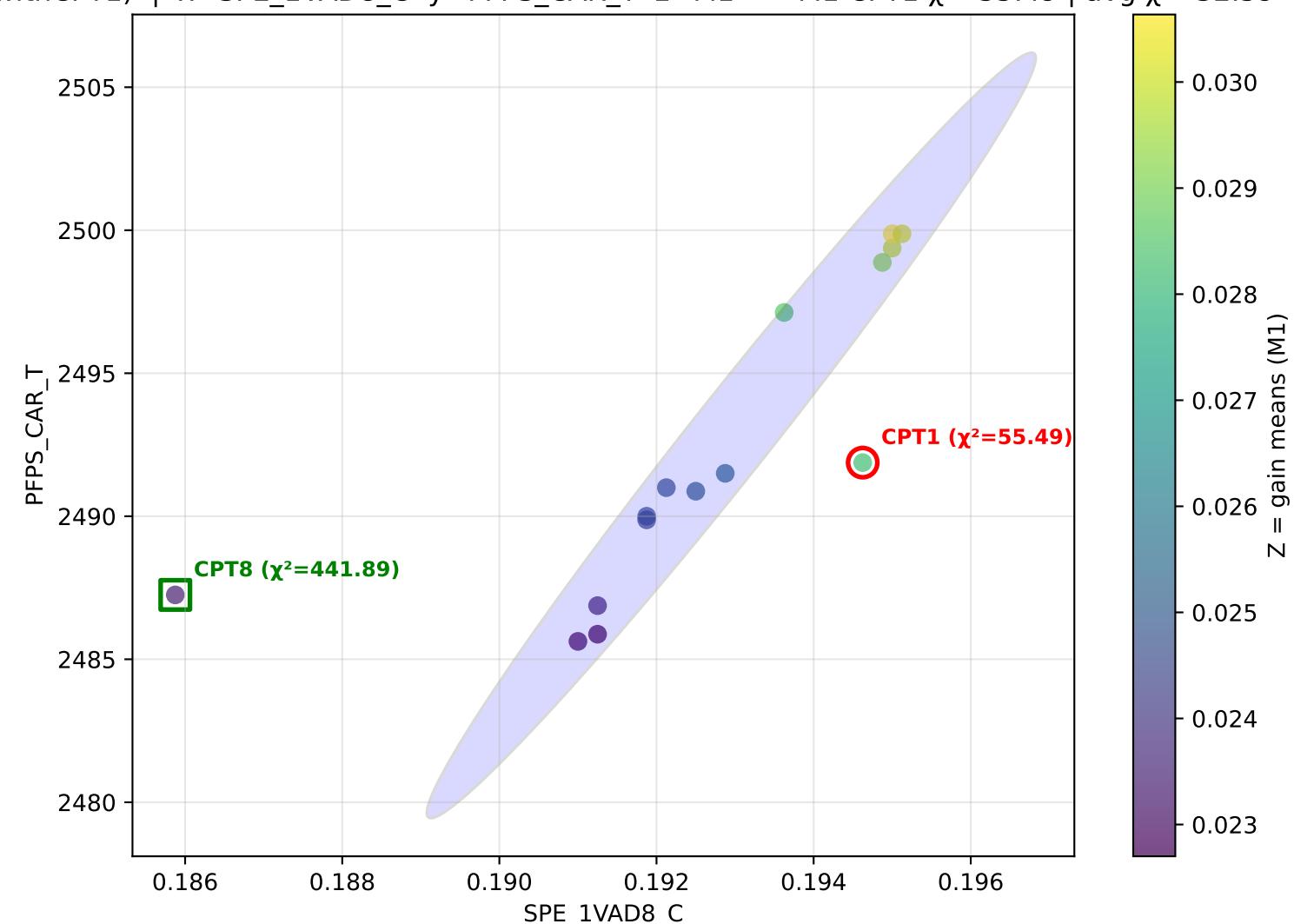




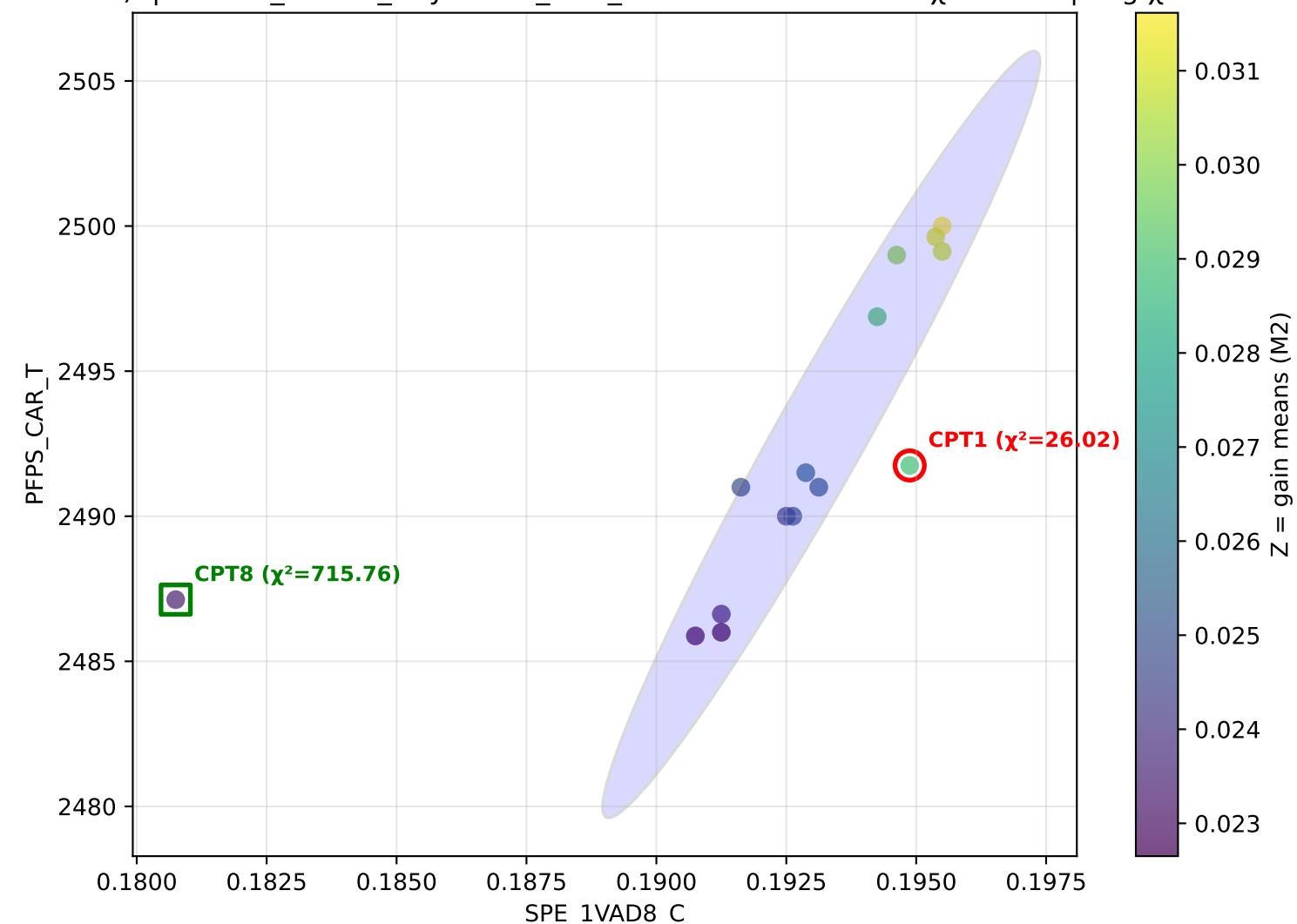
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_CAR\_T z=M0 — M0 CPT1  $\chi^2=45.42$  | avg  $\chi^2=32.59$



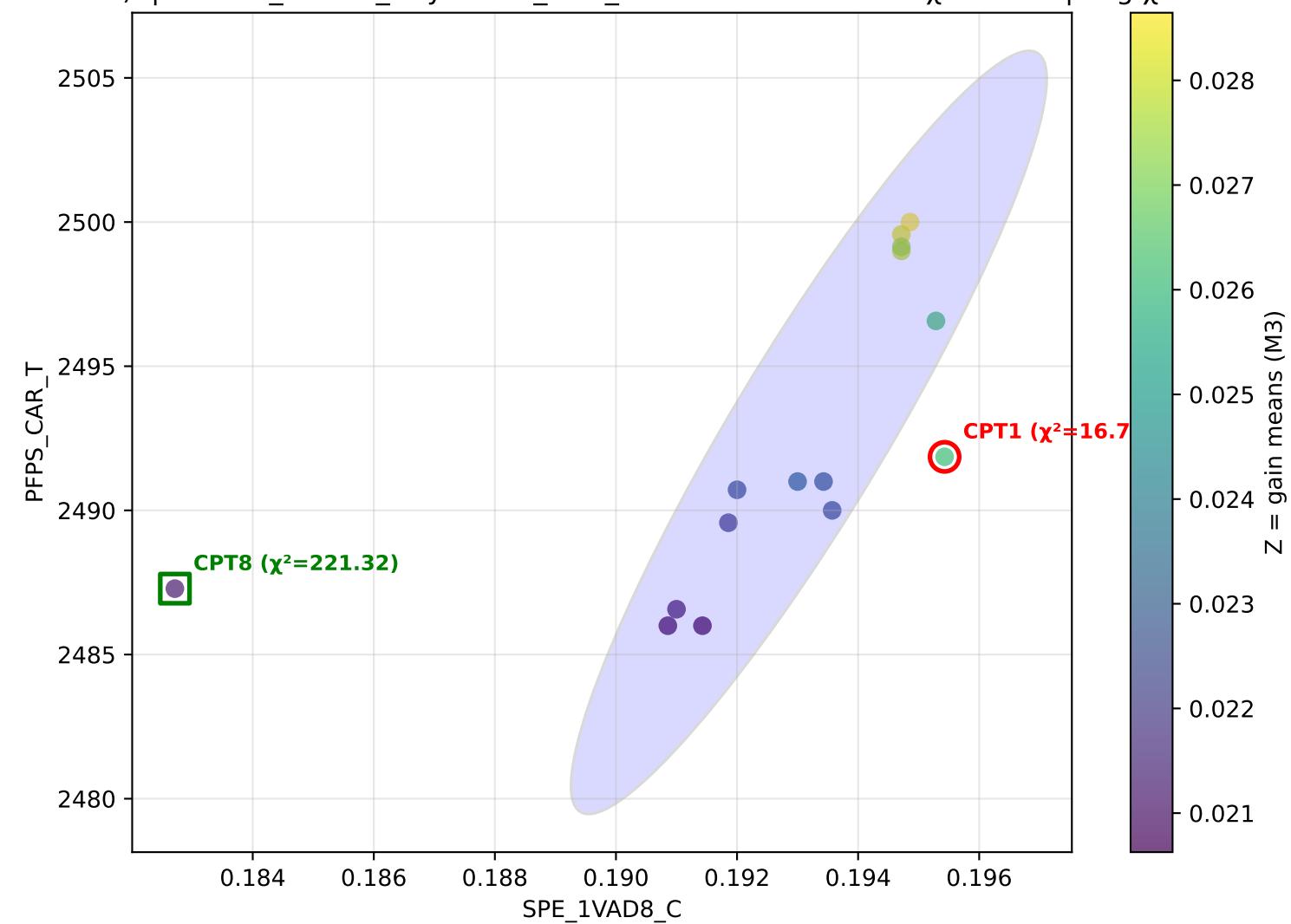
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_CAR\_T z=M1 — M1 CPT1  $\chi^2=55.49$  | avg  $\chi^2=32.59$



withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_CAR\_T z=M2 — M2 CPT1  $\chi^2=26.02$  | avg  $\chi^2=32.59$



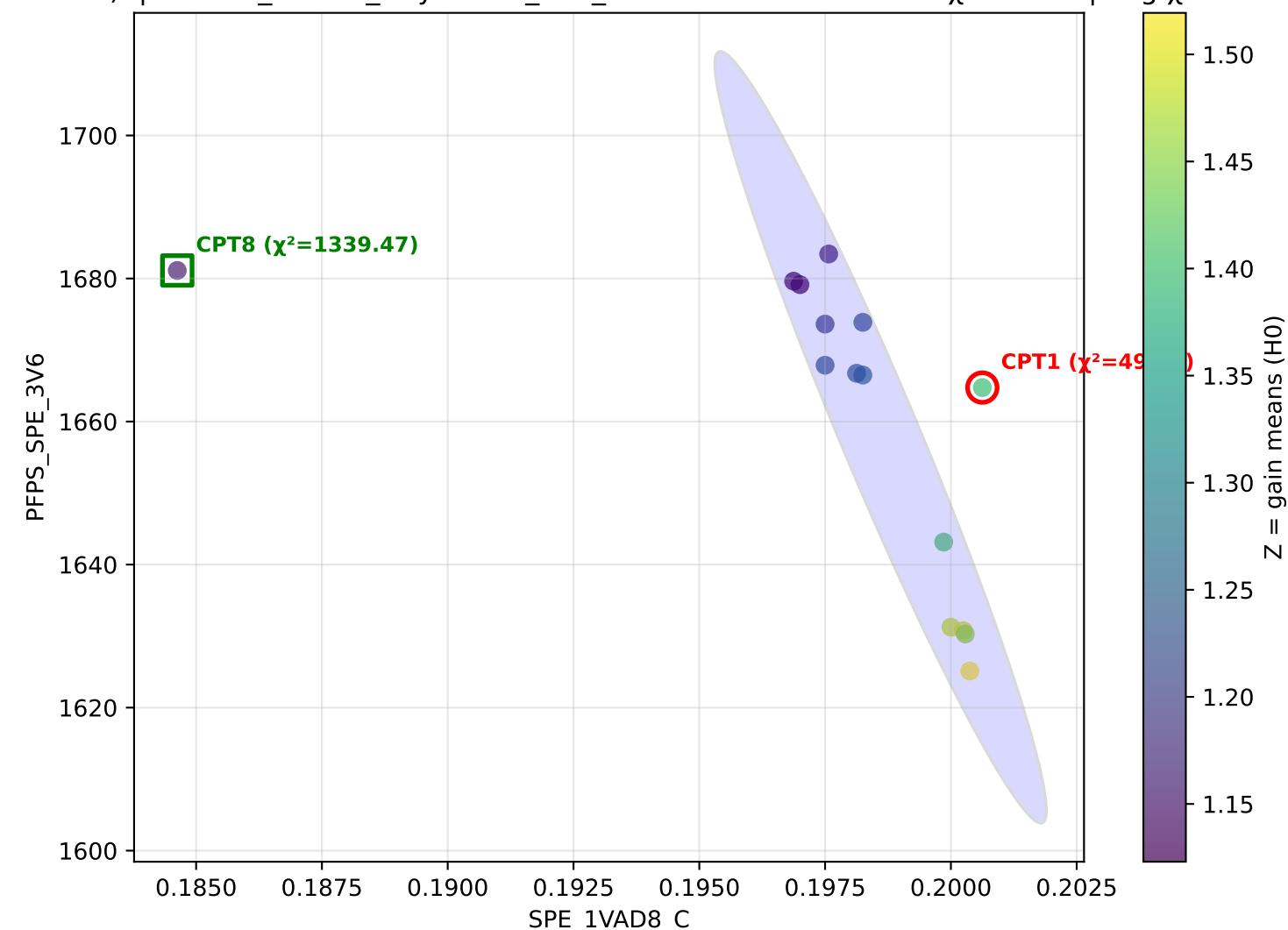
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_CAR\_T z=M3 — M3 CPT1  $\chi^2=16.74$  | avg  $\chi^2=32.59$



Pair: SPE\_1VAD8\_C vs PFPS\_SPE\_3V6

Average  $\chi^2$ (CPT1) across settings: 29.96

iithCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_SPE\_3V6}$   $z=\text{H0}$  — H0 CPT1  $\chi^2=49.96$  | avg  $\chi^2=29.96$



i CPT1) | x=SPE\_1VAD8\_C y=PFPS\_SPE\_3V6 z=H1 — H1 CPT1  $\chi^2=68.60$  | avg  $\chi^2=29.96$ |

PFPS\_SPE\_3V6

1700

1680

1660

1640

1620

1600

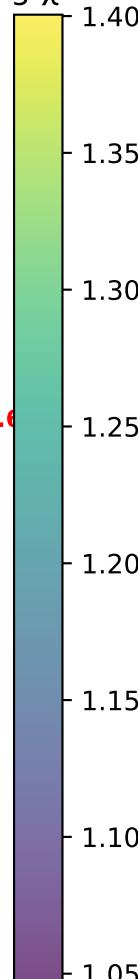
0.186 0.188 0.190 0.192 0.194 0.196 0.198 0.200 0.202

SPE\_1VAD8\_C

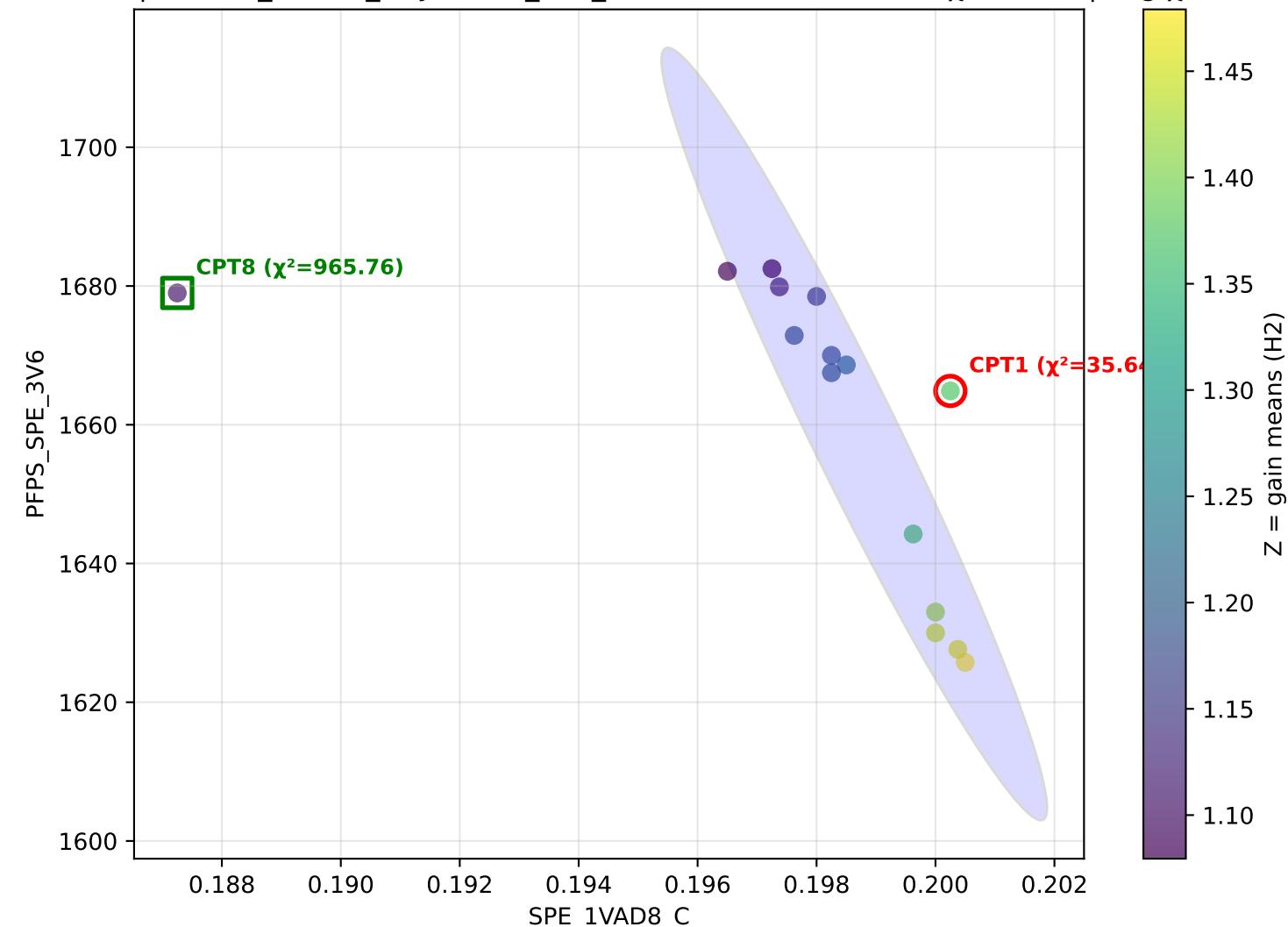
CPT8 ( $\chi^2=1719.99$ )

CPT1 ( $\chi^2=68.60$ )

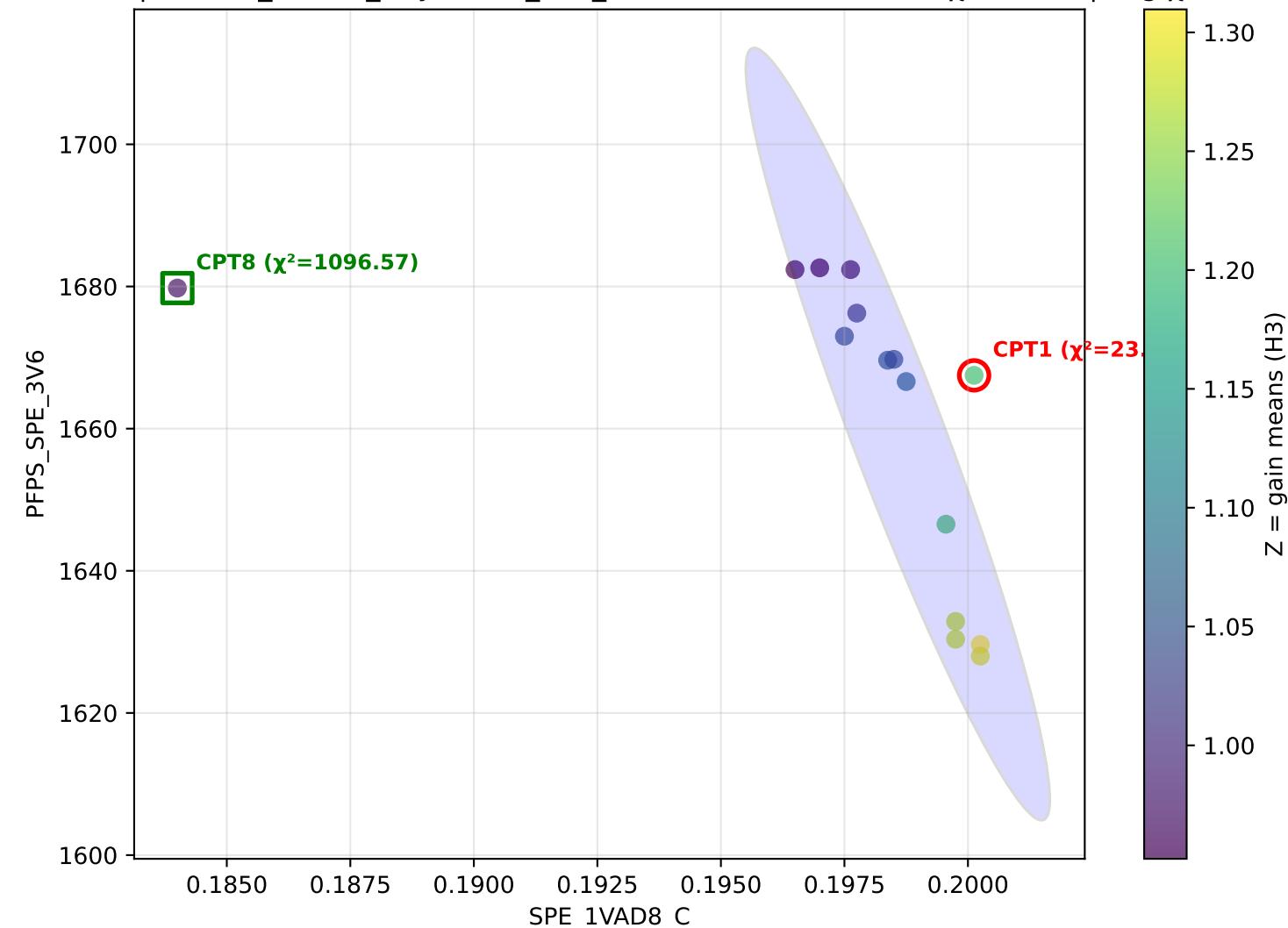
Z = gain means (H1)



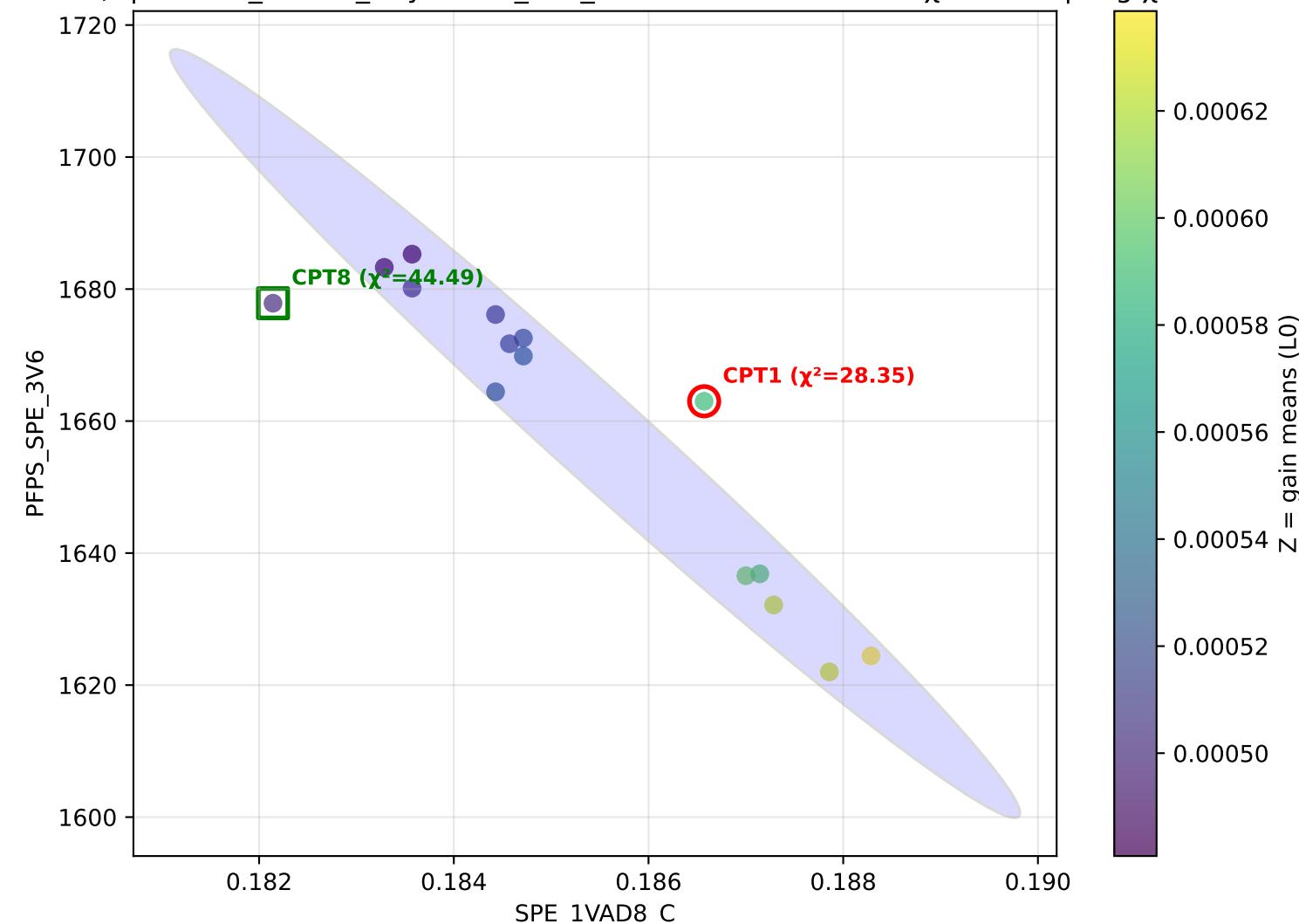
ithCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_SPE\_3V6}$   $z=\text{H2}$  — H2 CPT1  $\chi^2=35.64$  | avg  $\chi^2=29.96$

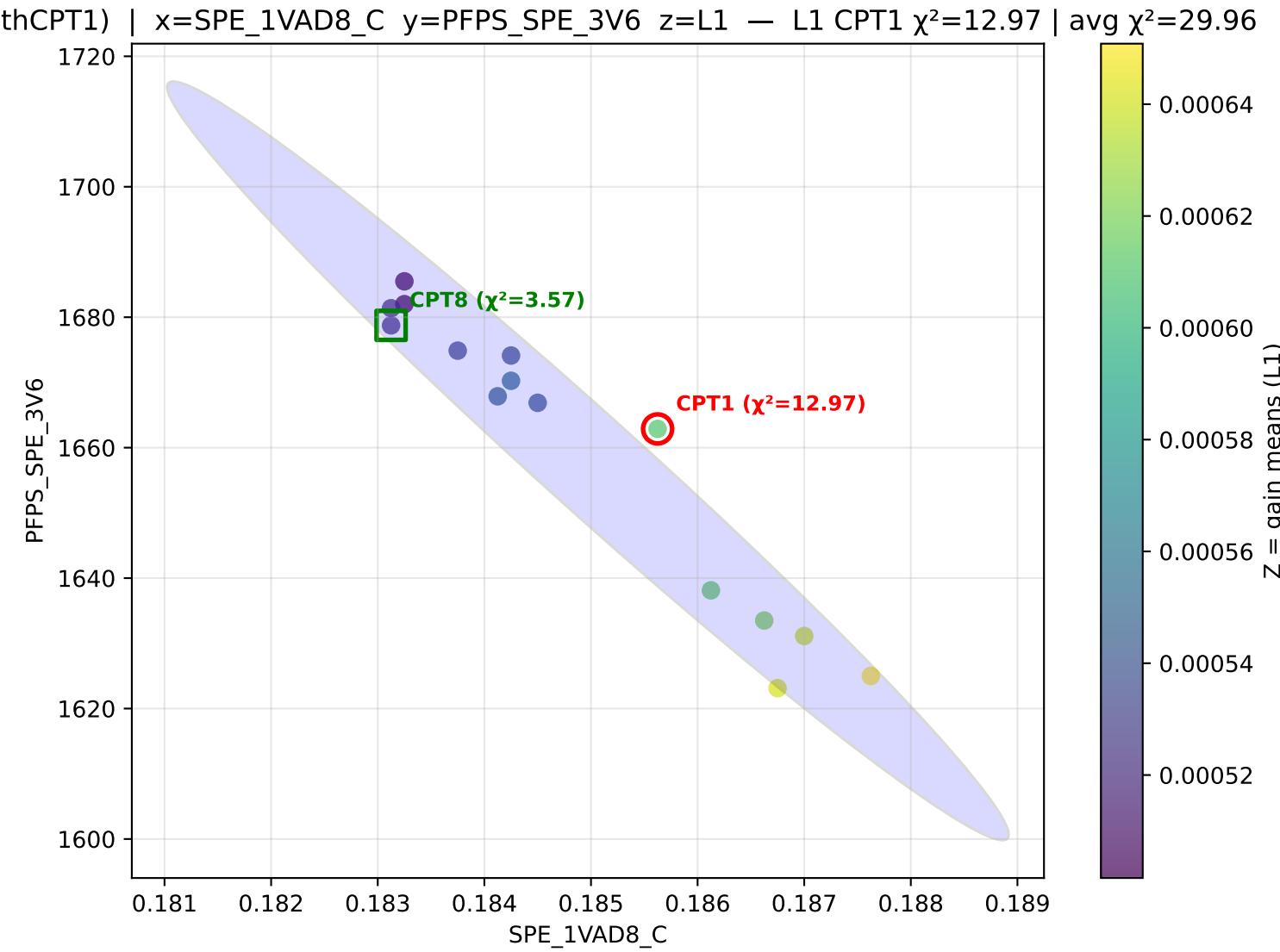


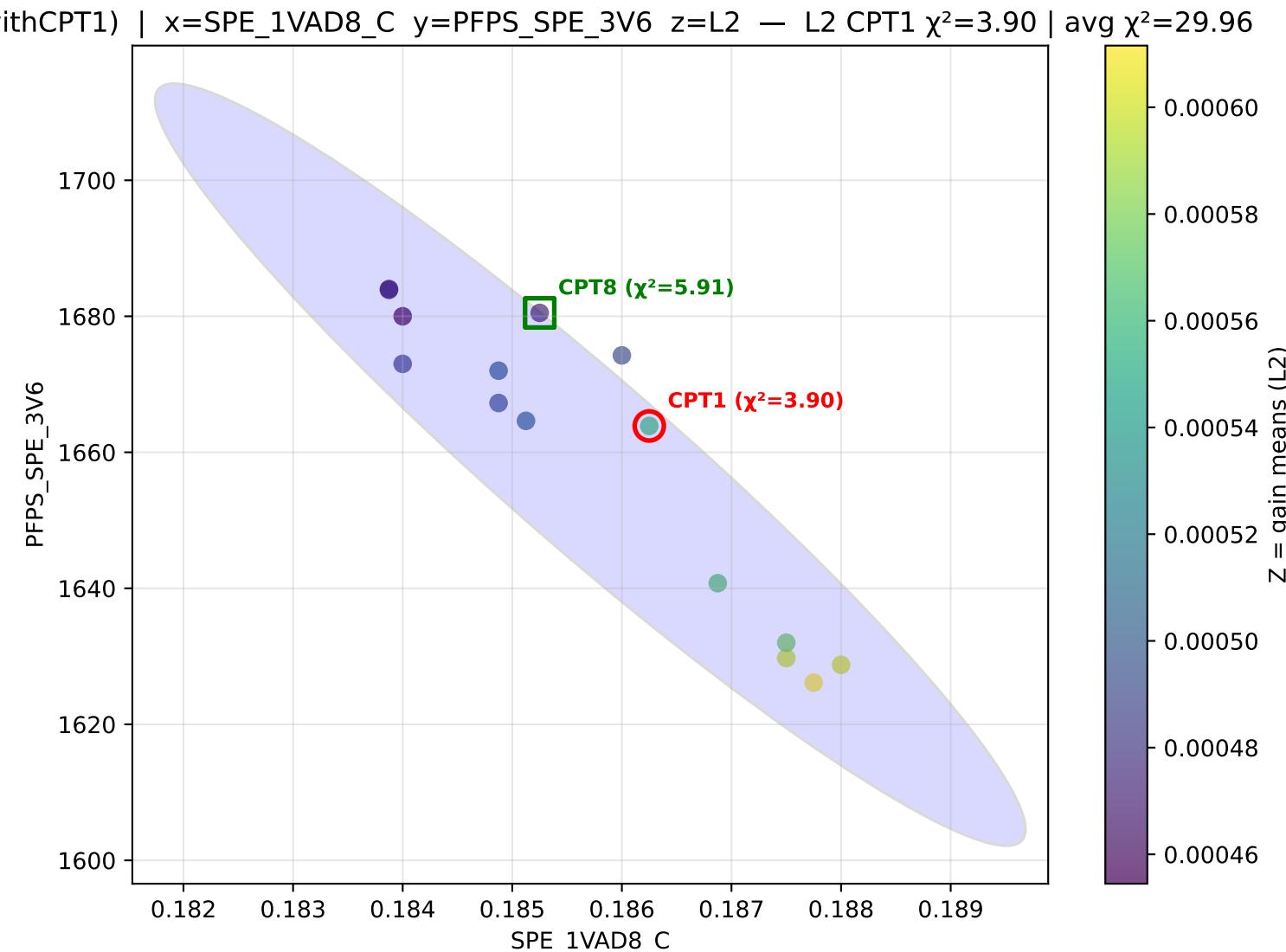
ithCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_SPE\_3V6}$   $z=\text{H3}$  — H3 CPT1  $\chi^2=23.92$  | avg  $\chi^2=29.96$



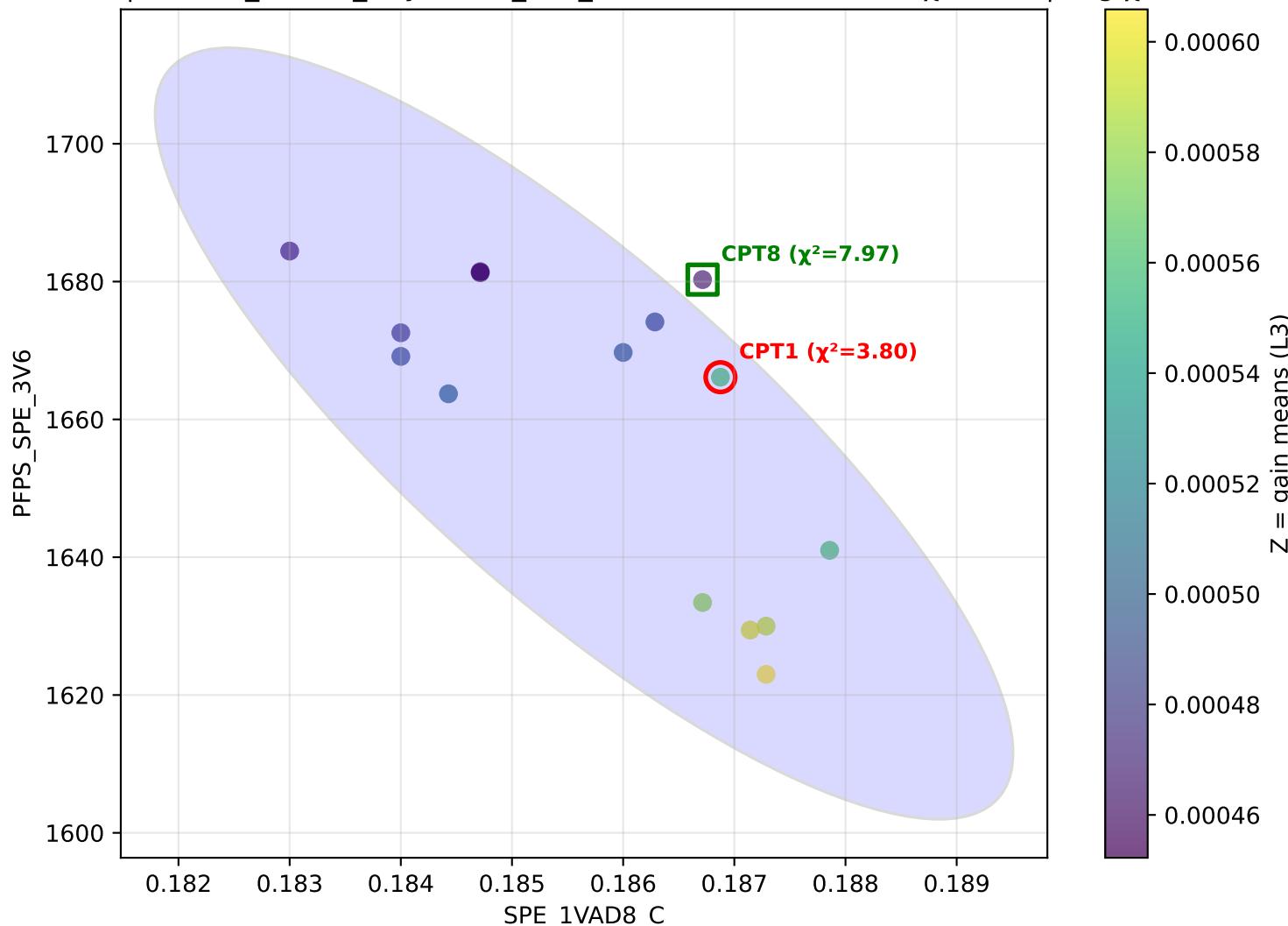
thCPT1) | x=SPE\_1VAD8\_C y=PFPS\_SPE\_3V6 z=L0 — L0 CPT1  $\chi^2=28.35$  | avg  $\chi^2=29.96$

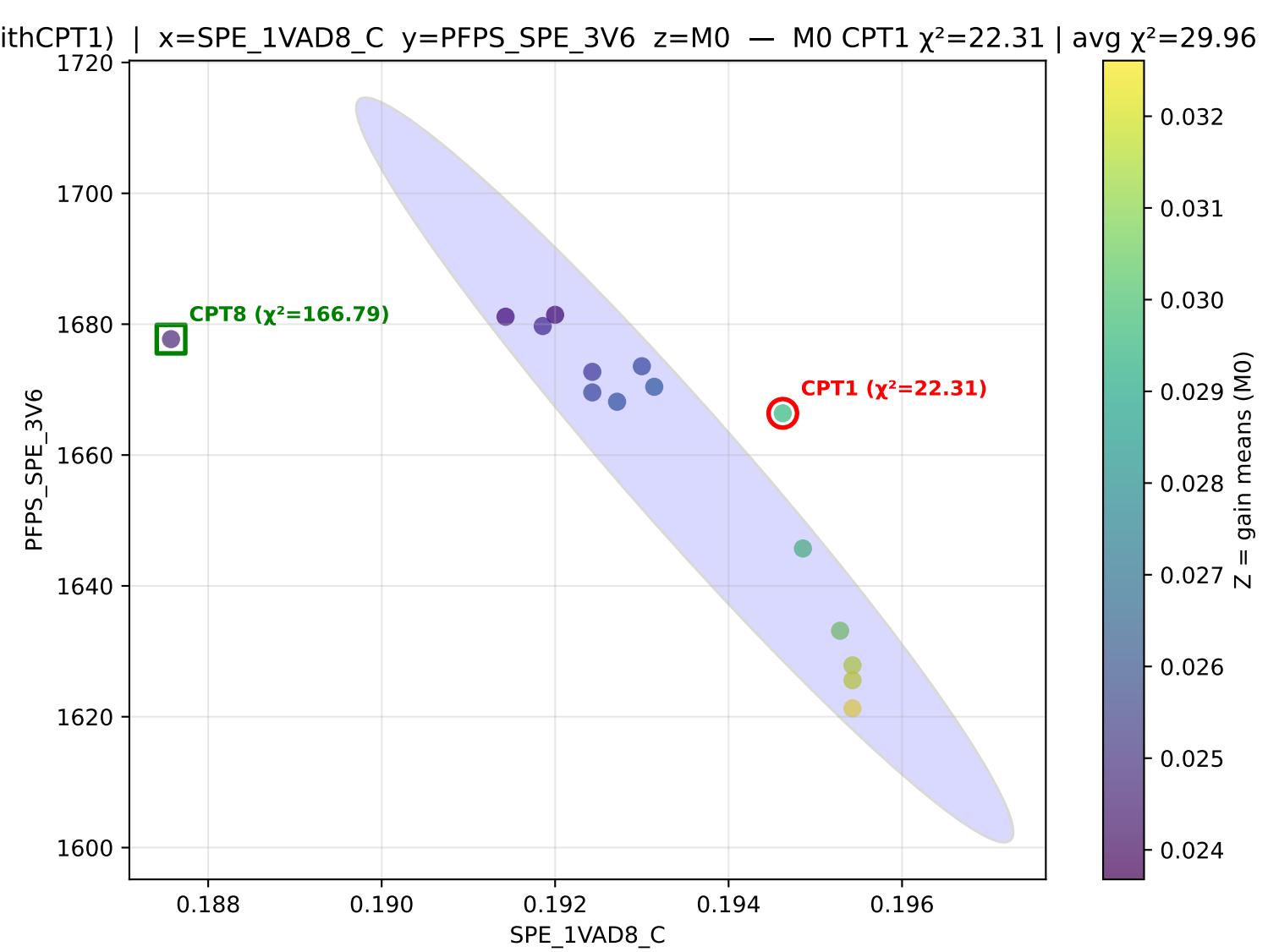




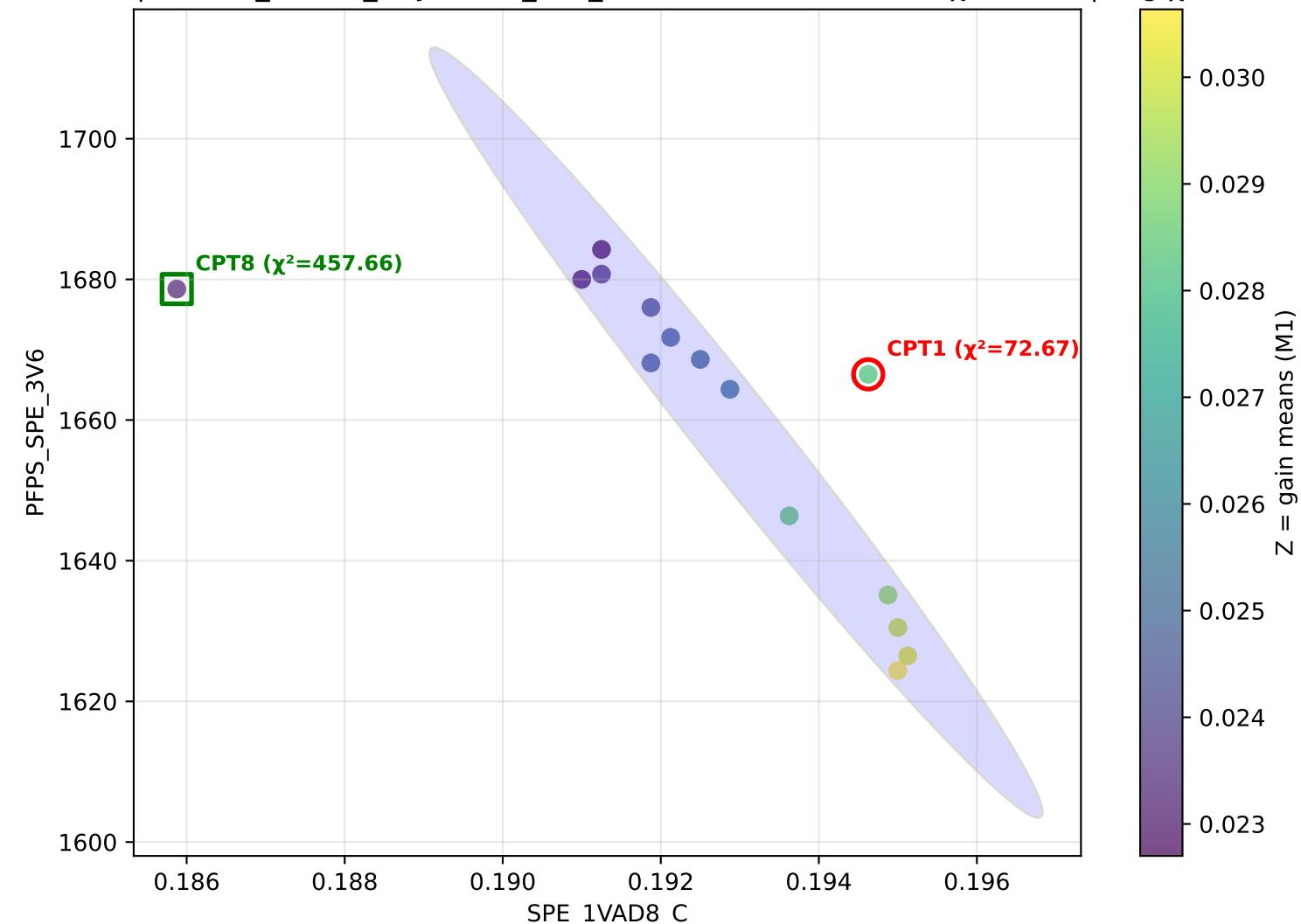


iithCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_SPE\_3V6}$   $z=L3$  — L3 CPT1  $\chi^2=3.80$  | avg  $\chi^2=29.96$

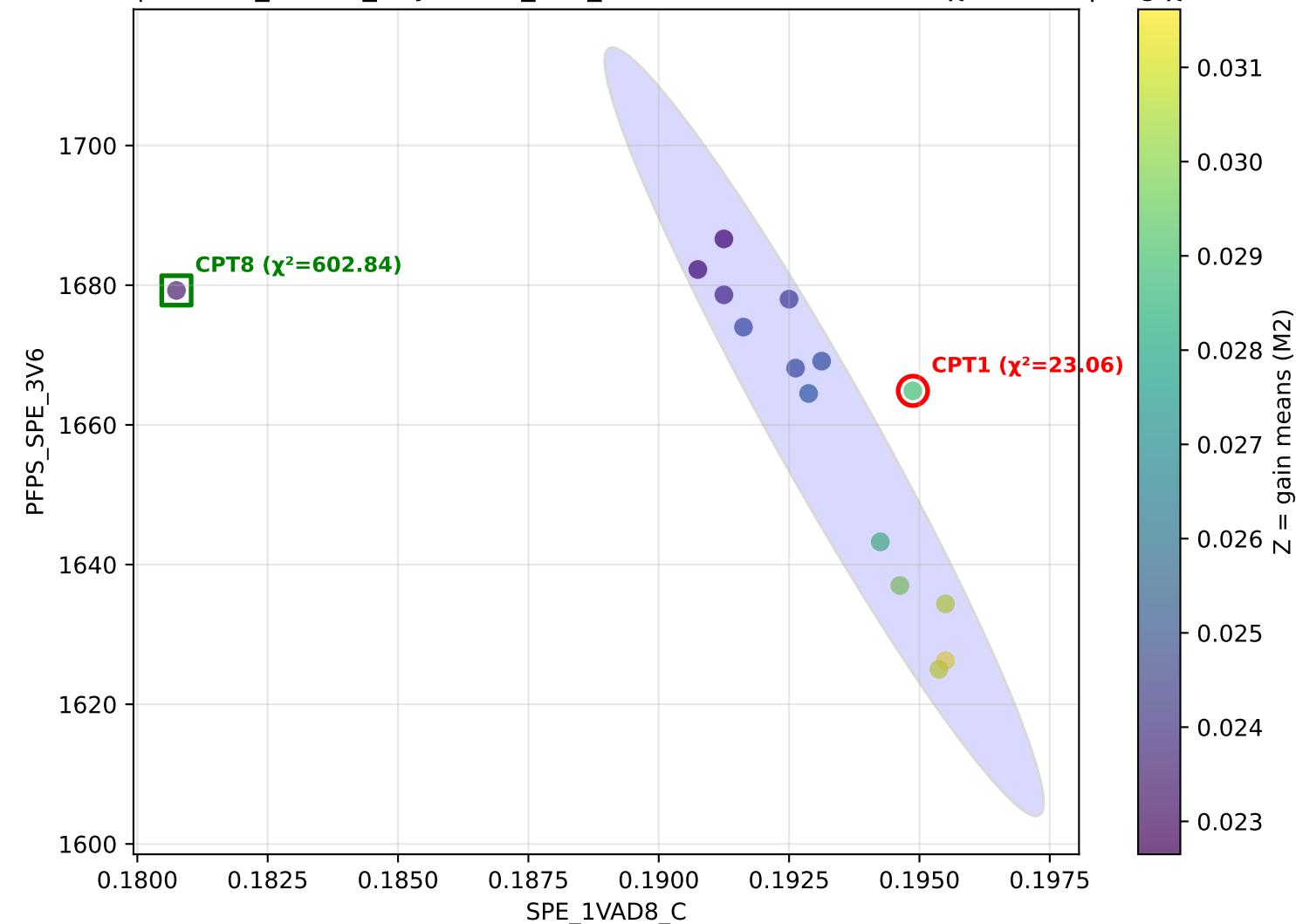


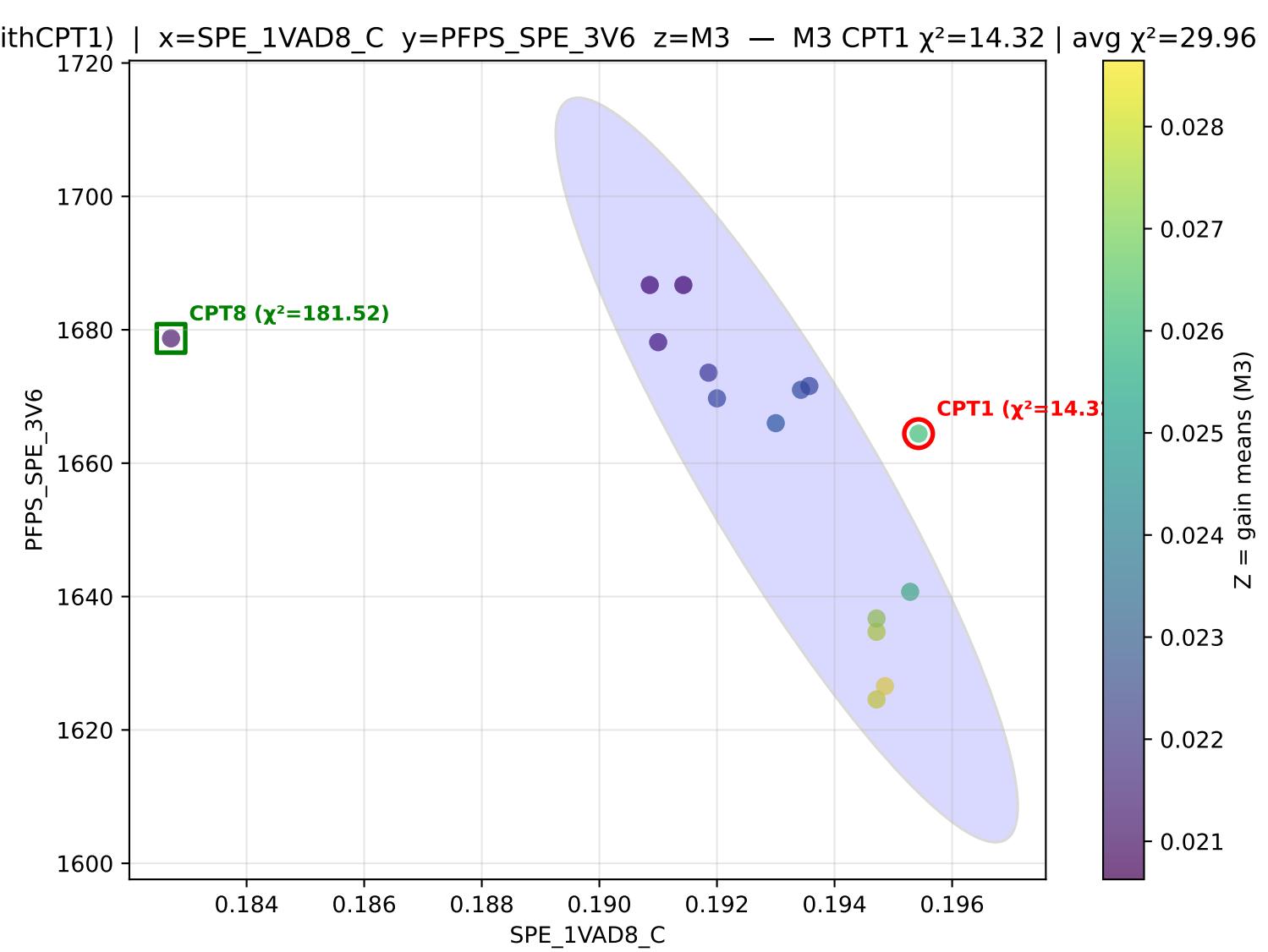


ithCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_SPE\_3V6}$   $z=\text{M1}$  — M1 CPT1  $\chi^2=72.67$  | avg  $\chi^2=29.96$



ithCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_SPE\_3V6}$   $z=\text{M2}$  — M2 CPT1  $\chi^2=23.06$  | avg  $\chi^2=29.96$

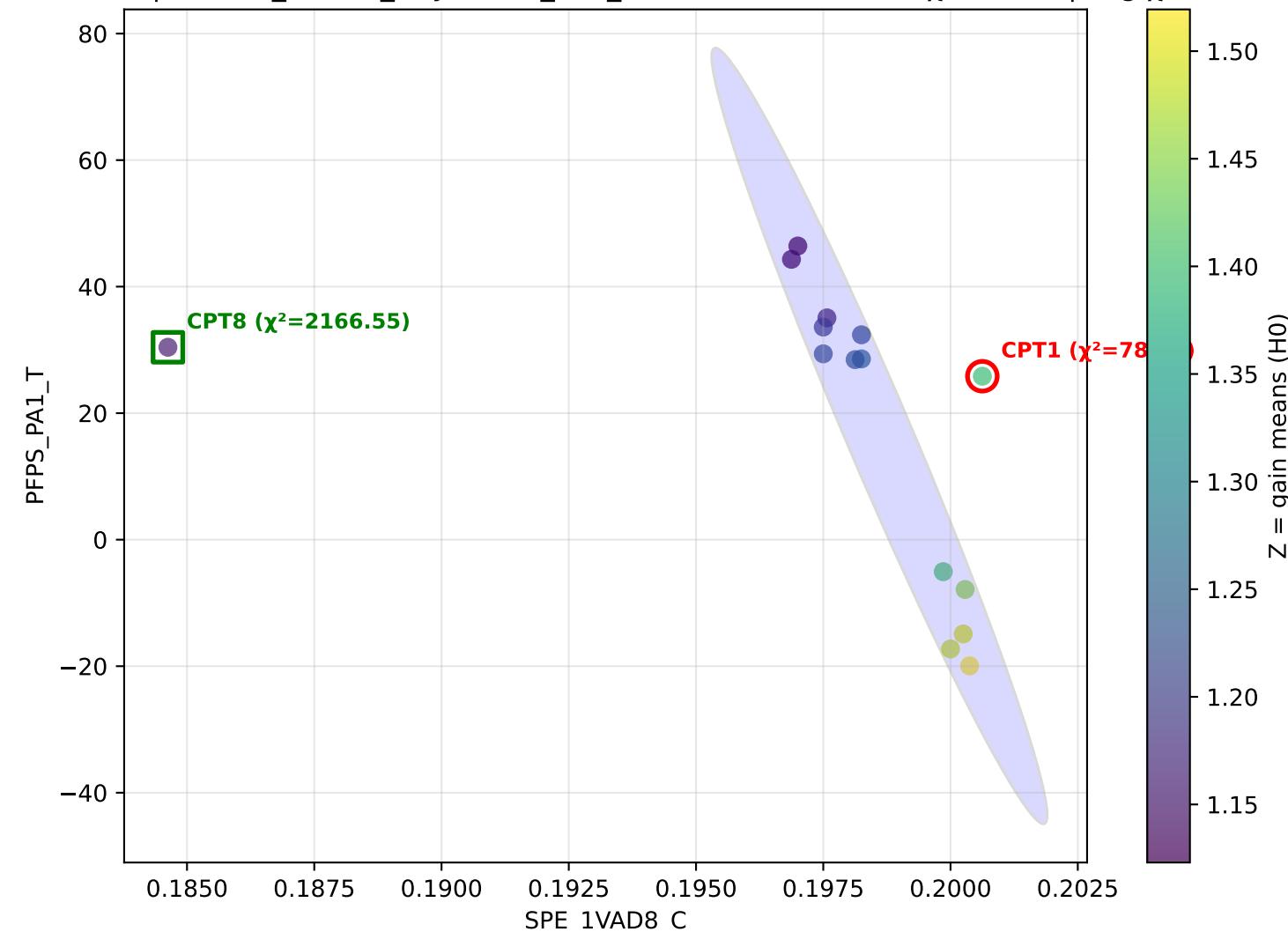




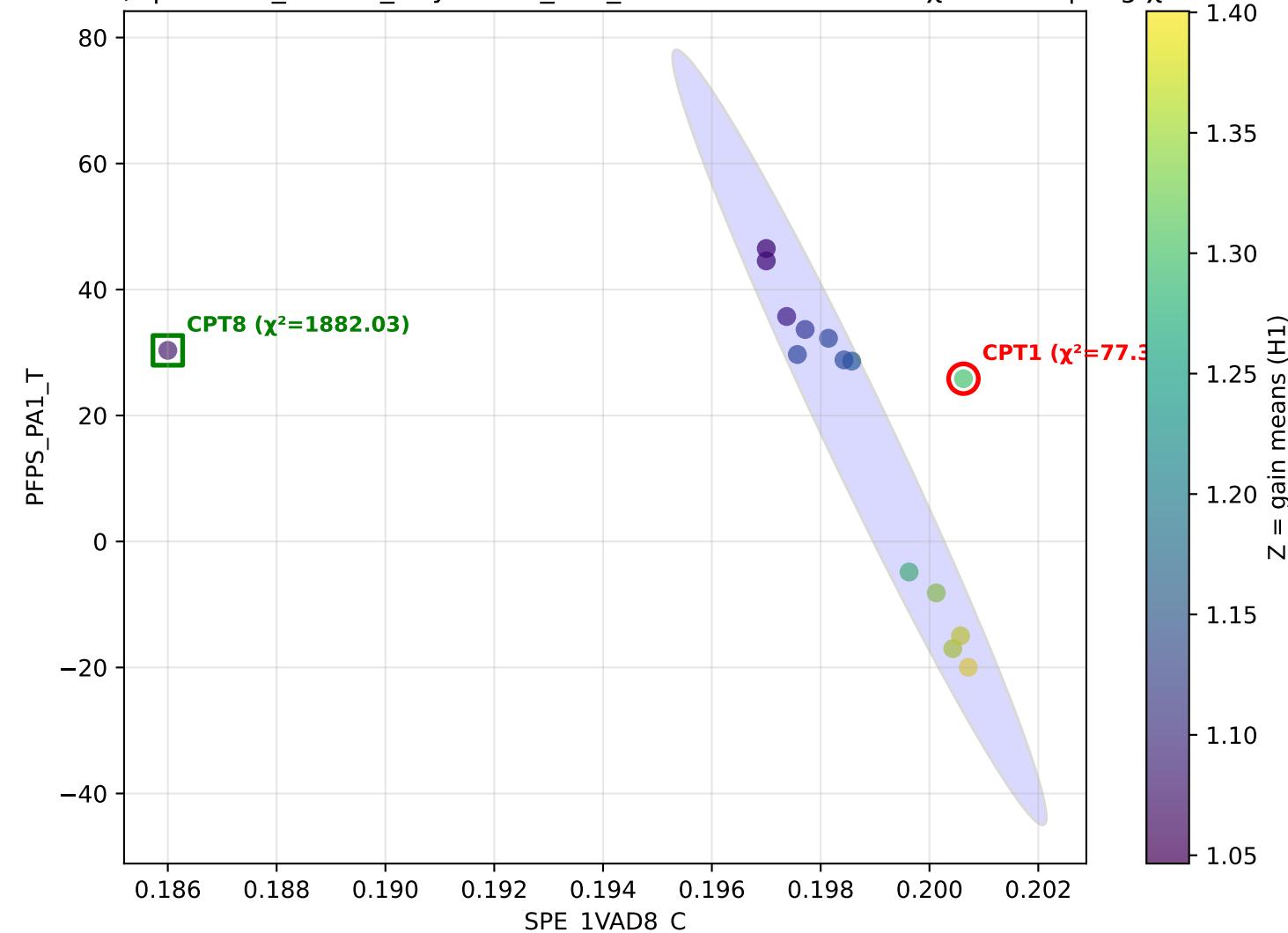
Pair: SPE\_1VAD8\_C vs PFPS\_PA1\_T

Average  $\chi^2$ (CPT1) across settings: 29.75

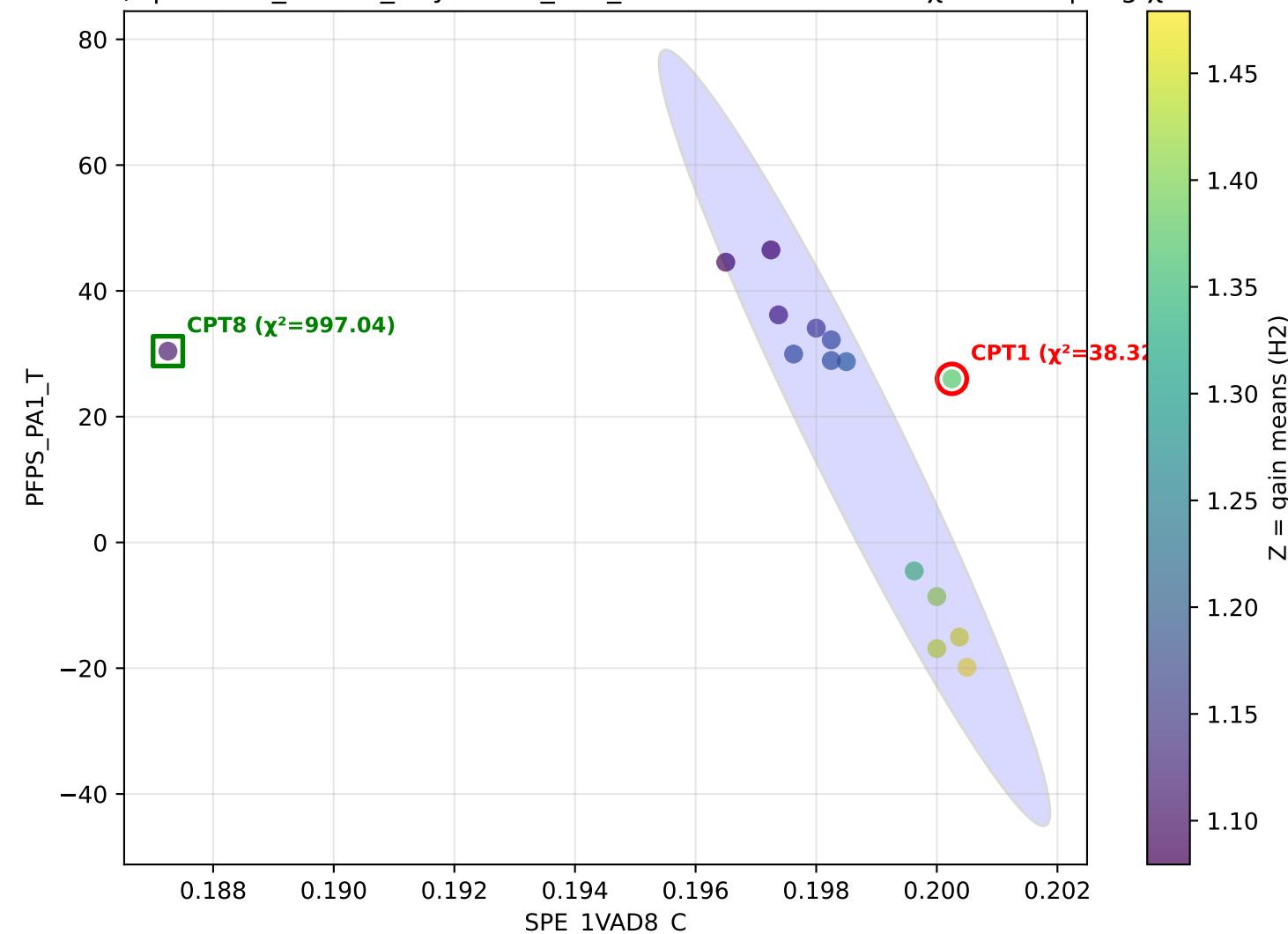
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA1\_T z=H0 — H0 CPT1  $\chi^2=78.47$  | avg  $\chi^2=29.75$



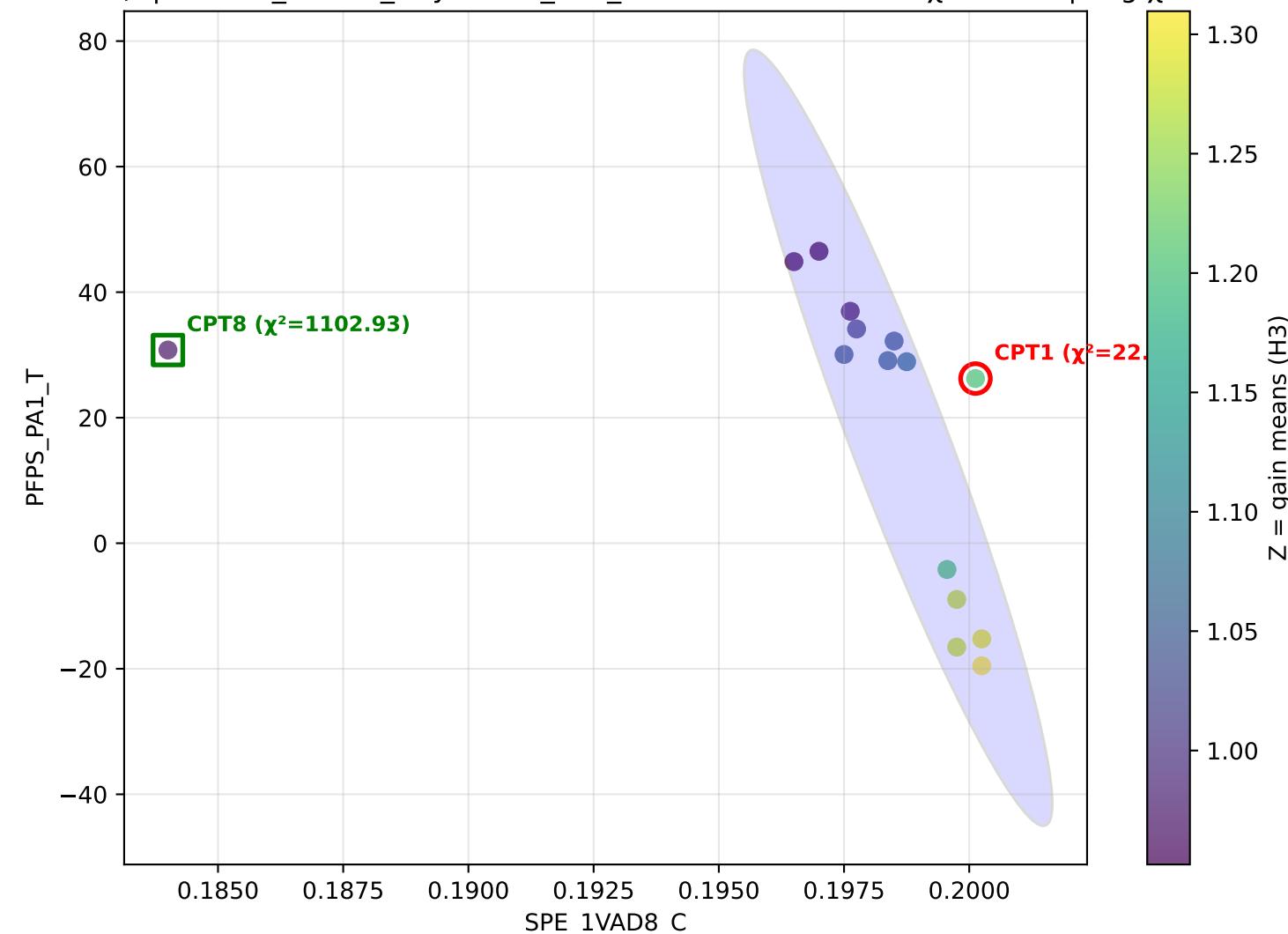
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA1\_T z=H1 — H1 CPT1  $\chi^2=77.32$  | avg  $\chi^2=29.75$

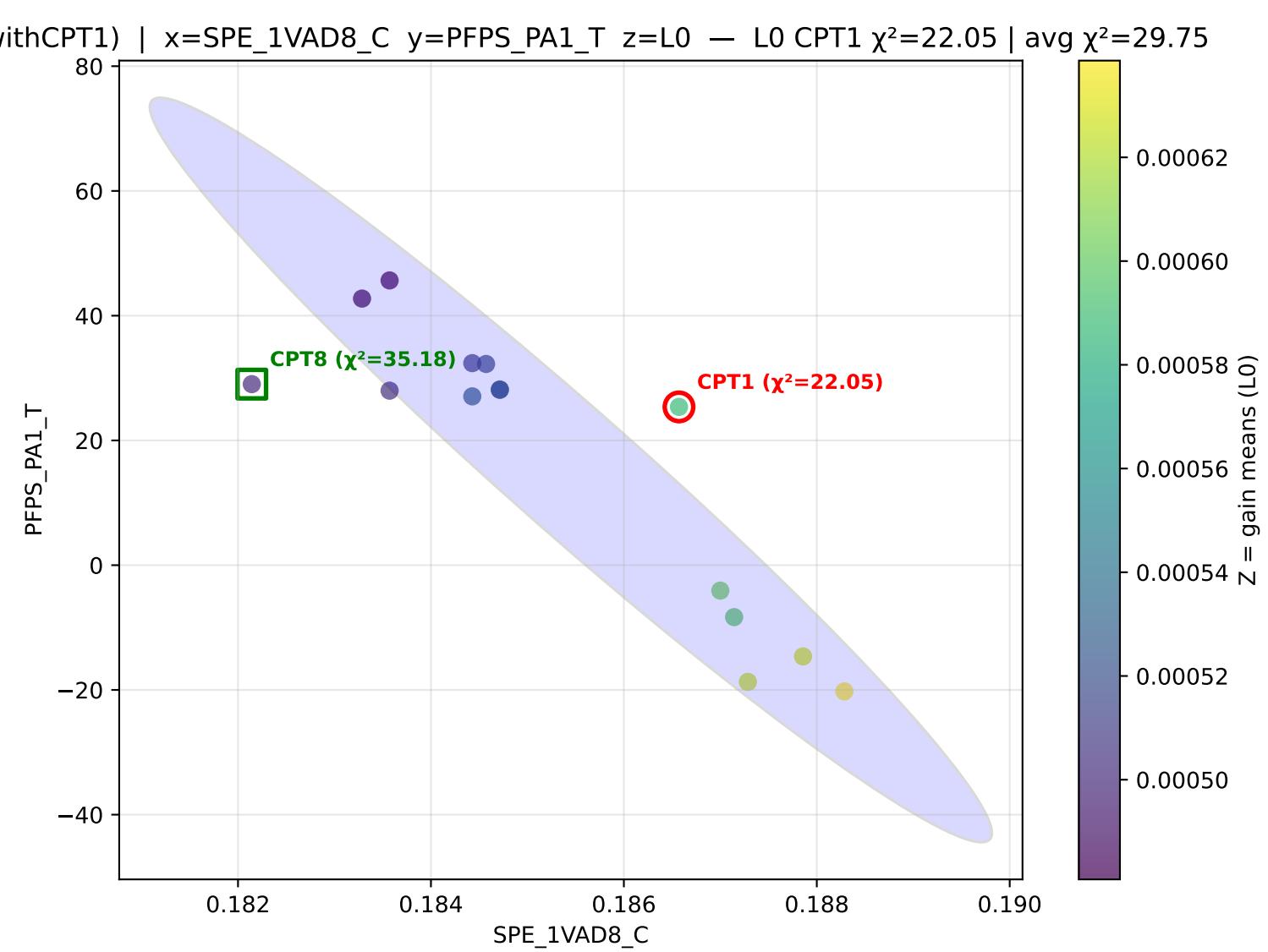


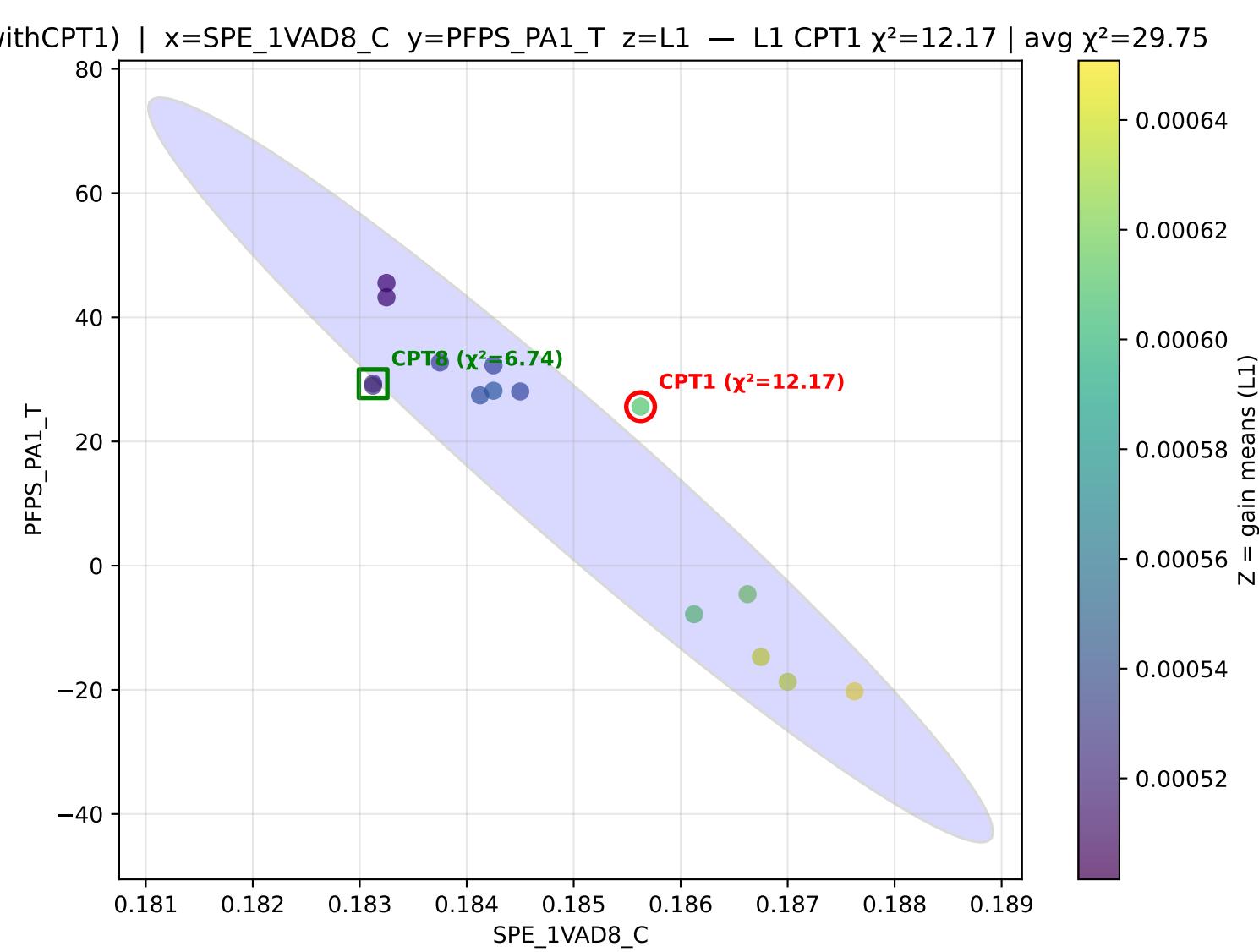
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA1\_T z=H2 — H2 CPT1  $\chi^2=38.32$  | avg  $\chi^2=29.75$



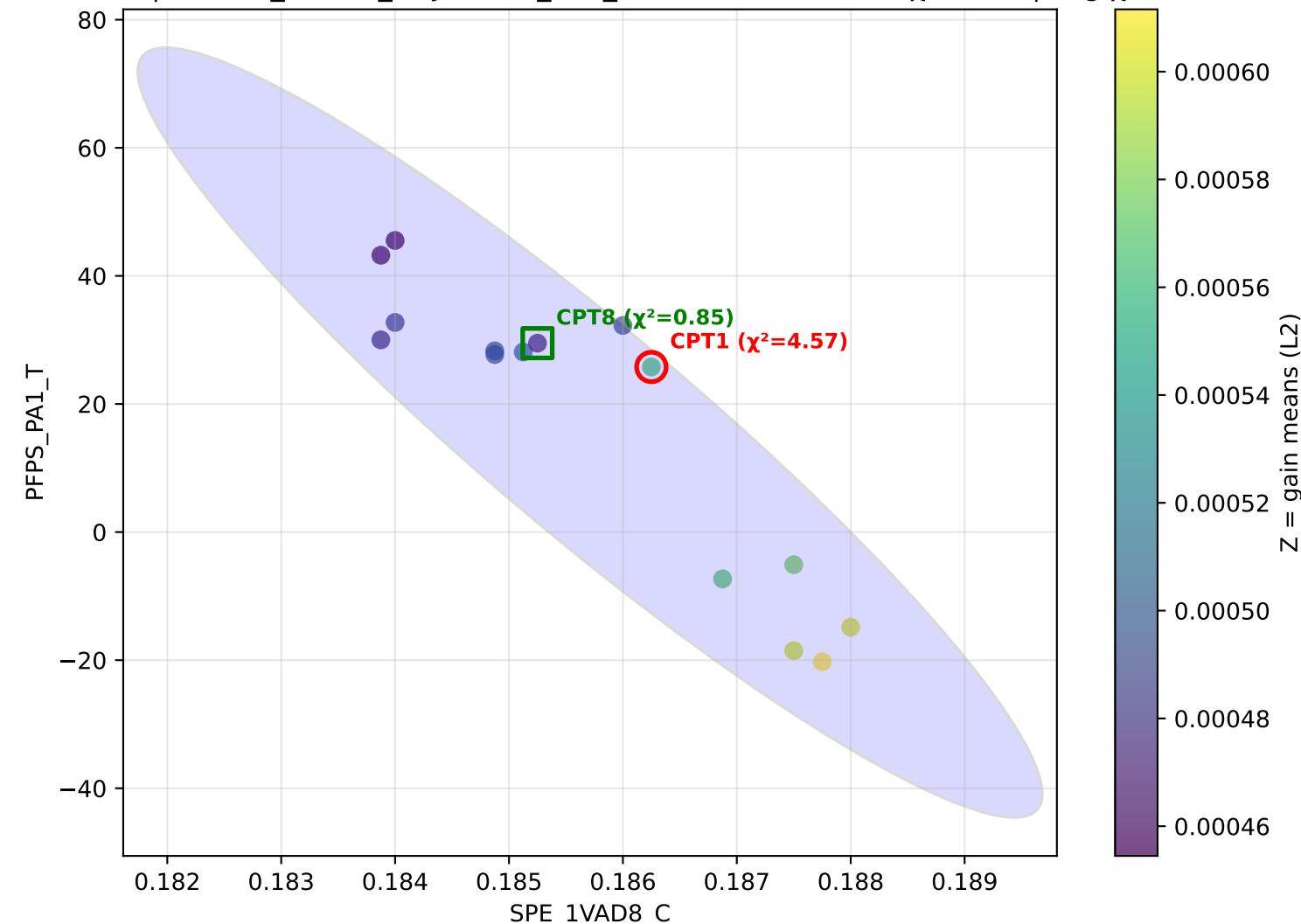
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA1\_T z=H3 — H3 CPT1  $\chi^2=22.58$  | avg  $\chi^2=29.75$

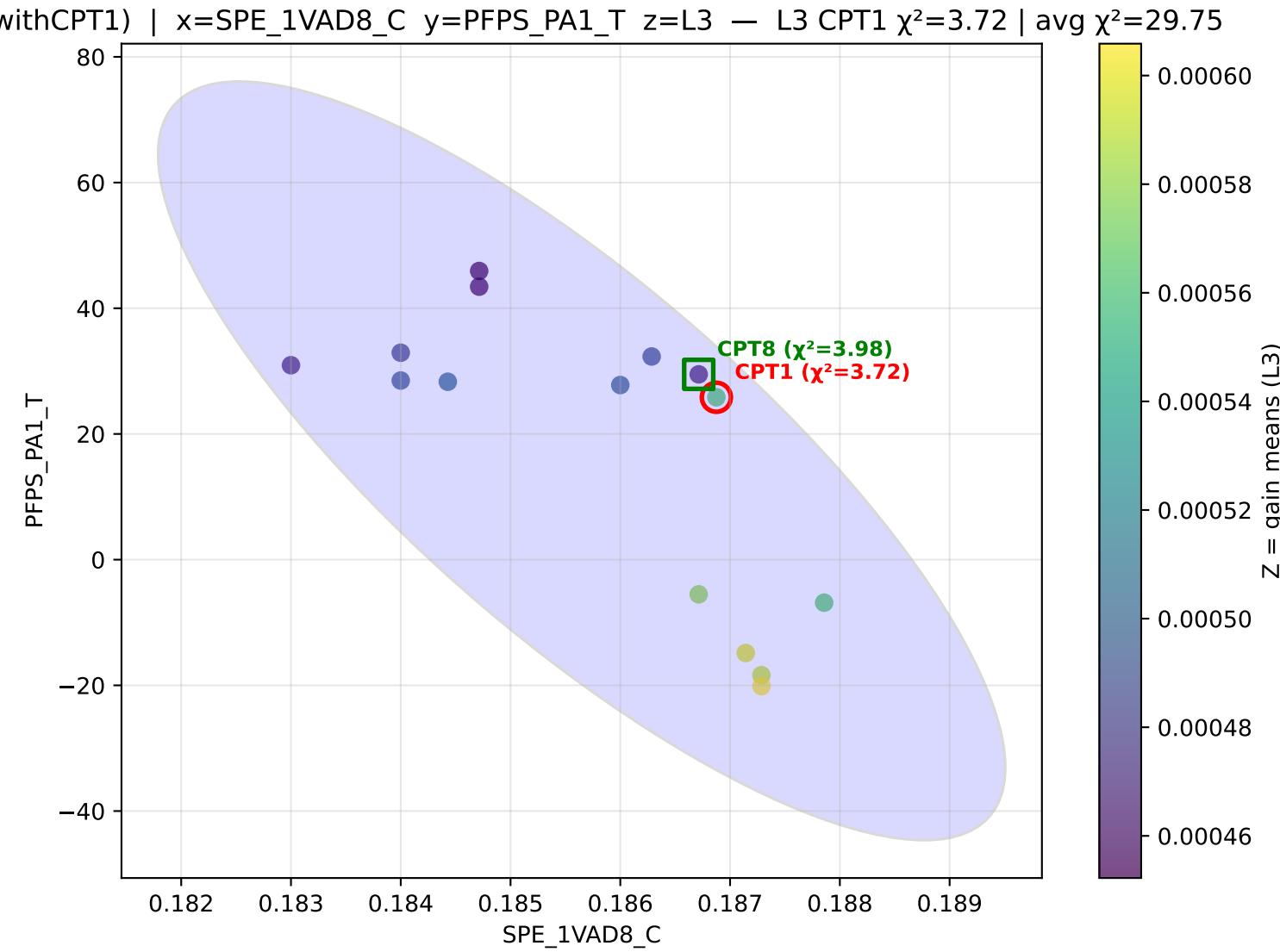




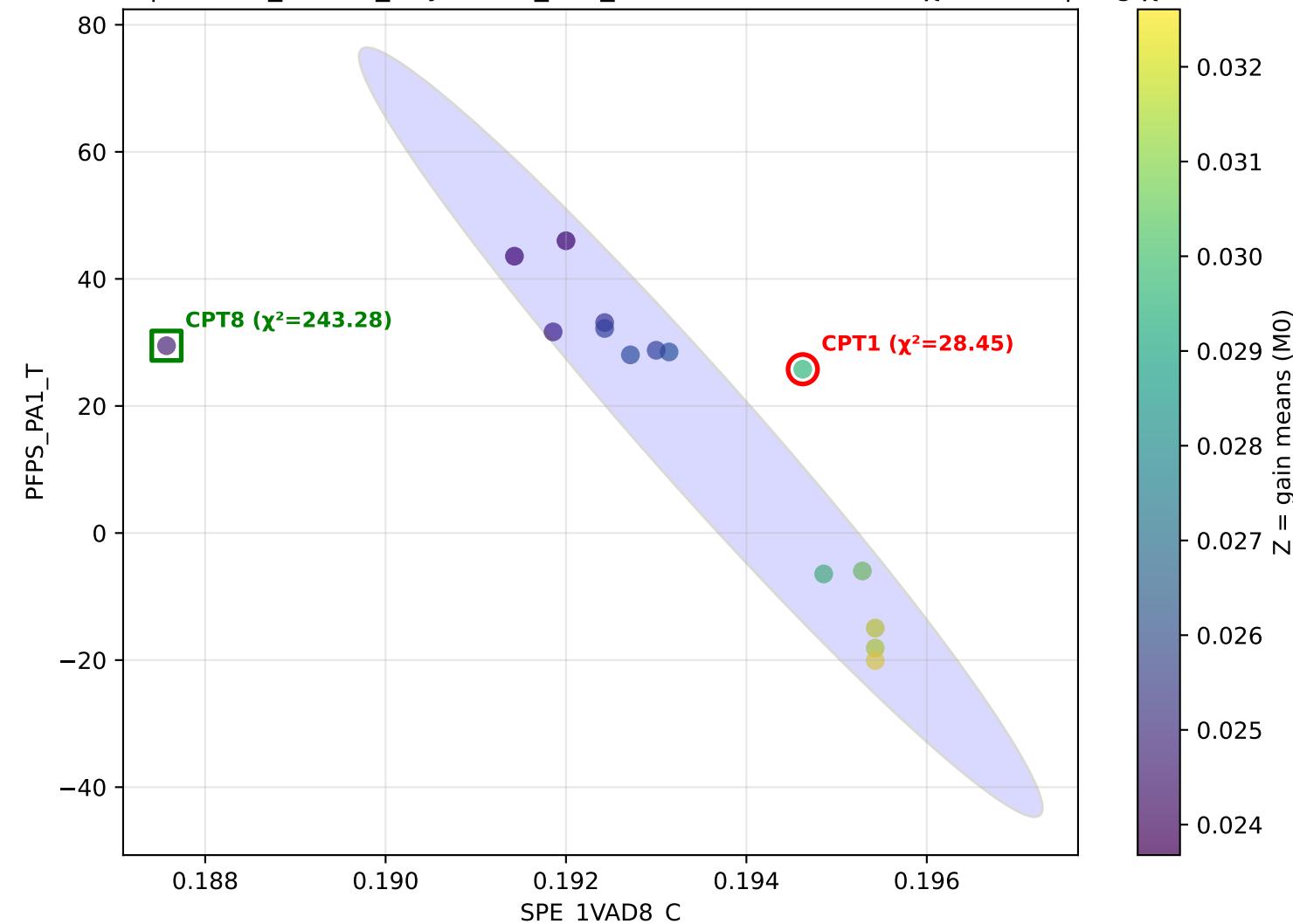


withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA1\_T z=L2 — L2 CPT1  $\chi^2=4.57$  | avg  $\chi^2=29.75$

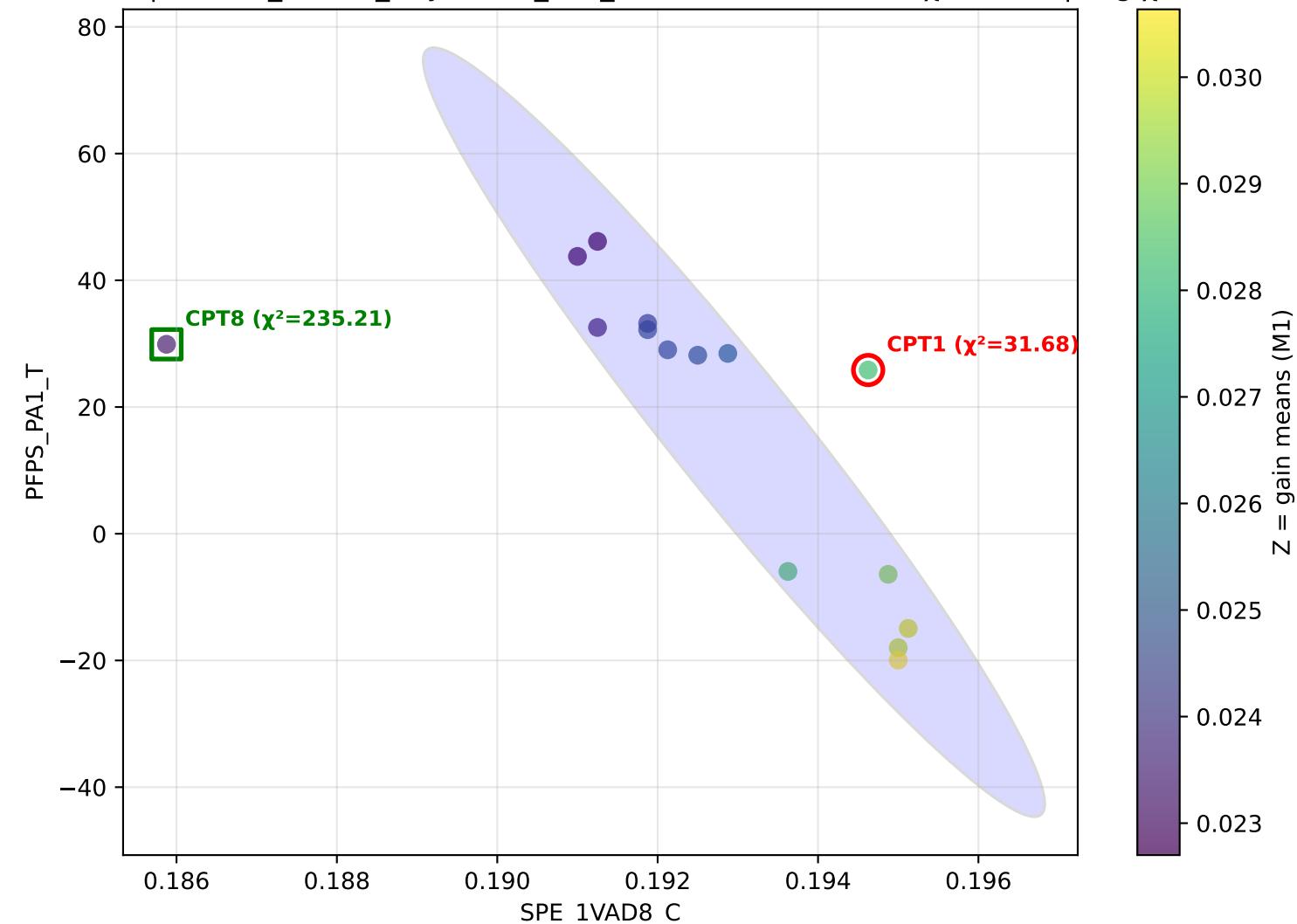




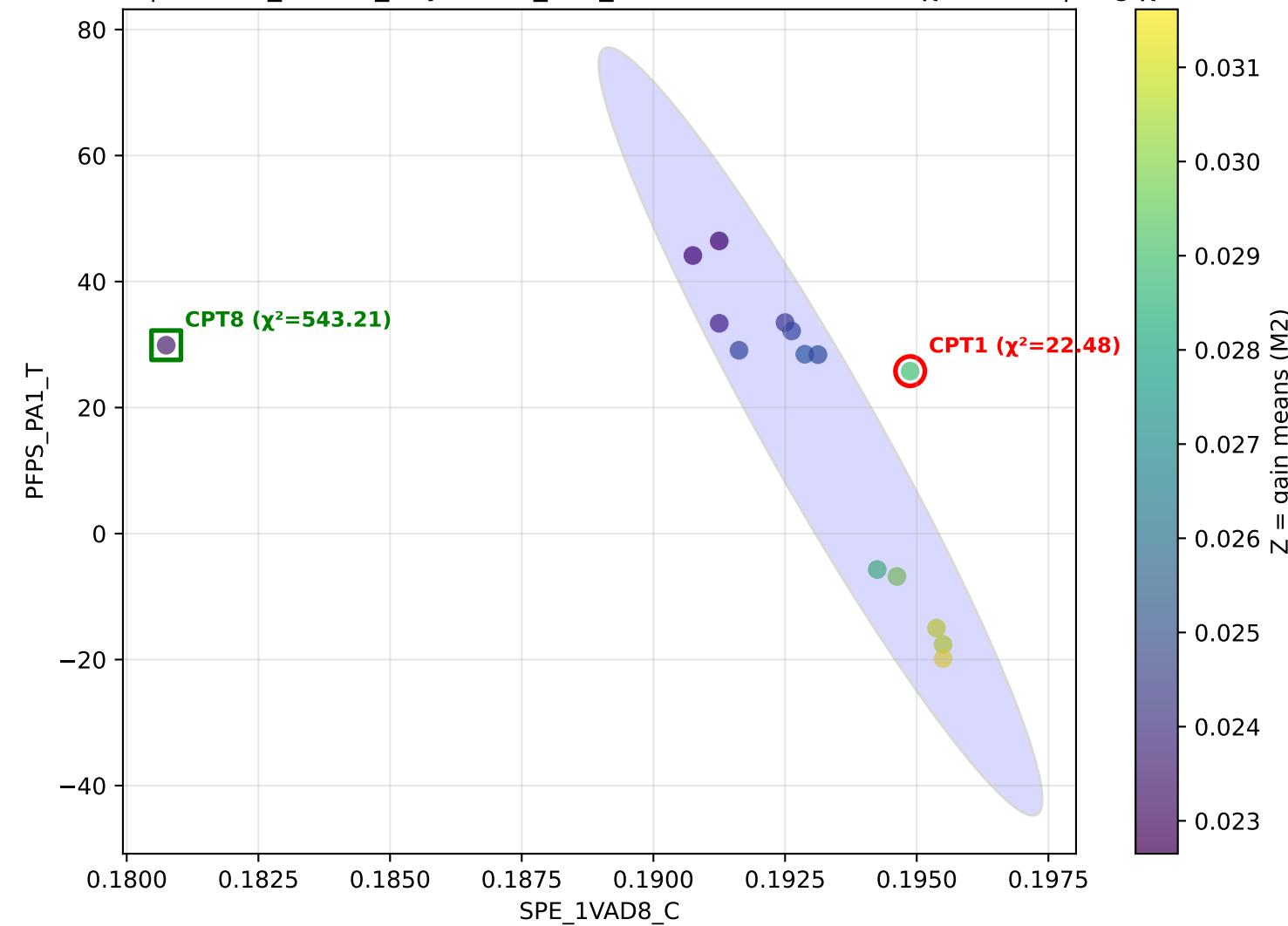
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA1\_T z=M0 — M0 CPT1  $\chi^2=28.45$  | avg  $\chi^2=29.75$



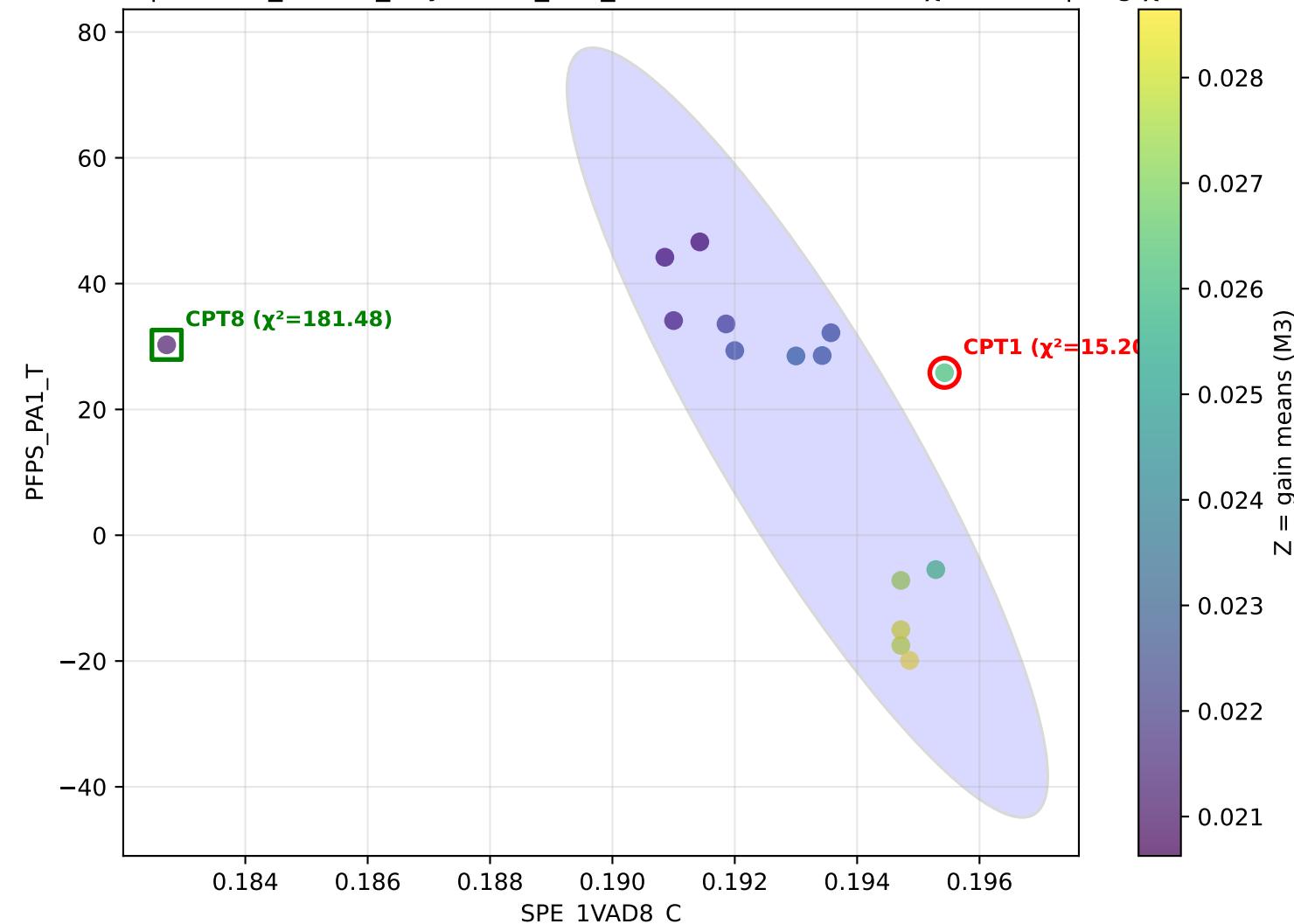
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA1\_T z=M1 — M1 CPT1  $\chi^2=31.68$  | avg  $\chi^2=29.75$



withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA1\_T z=M2 — M2 CPT1  $\chi^2=22.48$  | avg  $\chi^2=29.75$



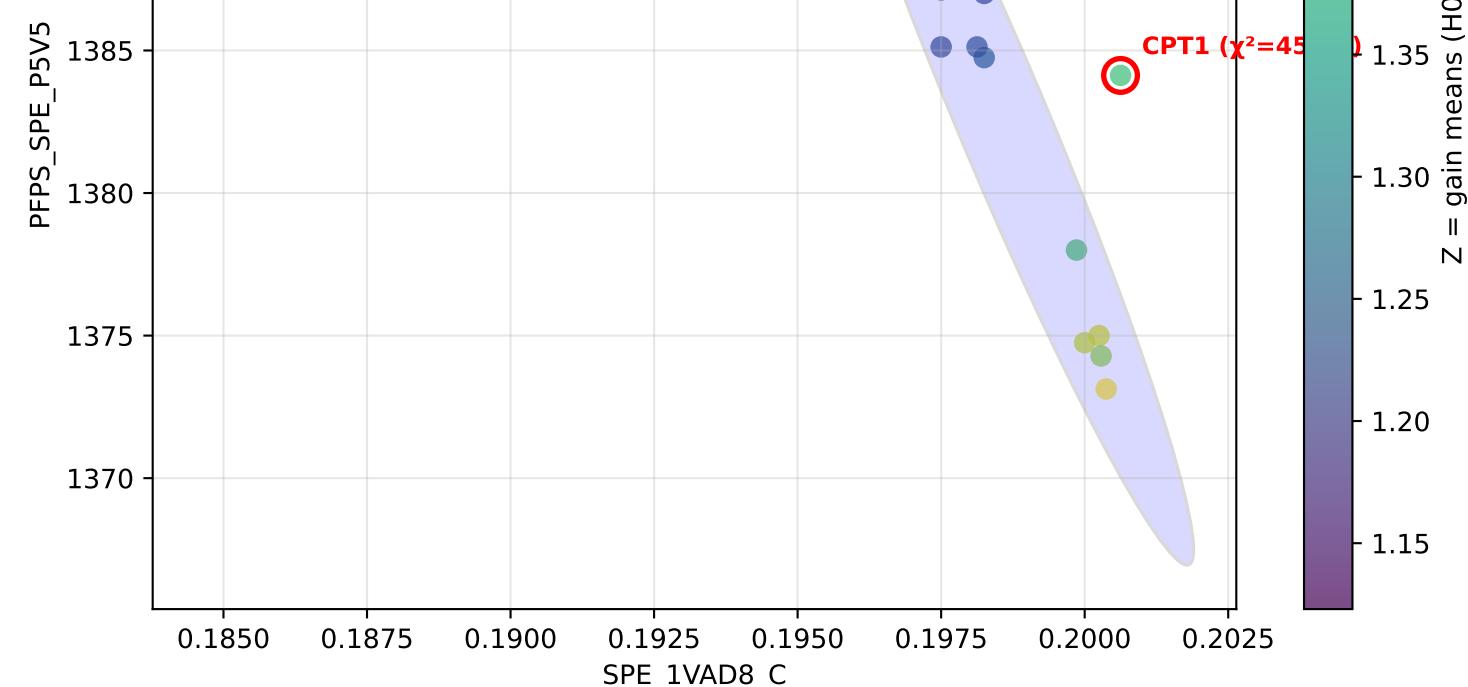
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA1\_T z=M3 — M3 CPT1  $\chi^2=15.20$  | avg  $\chi^2=29.75$

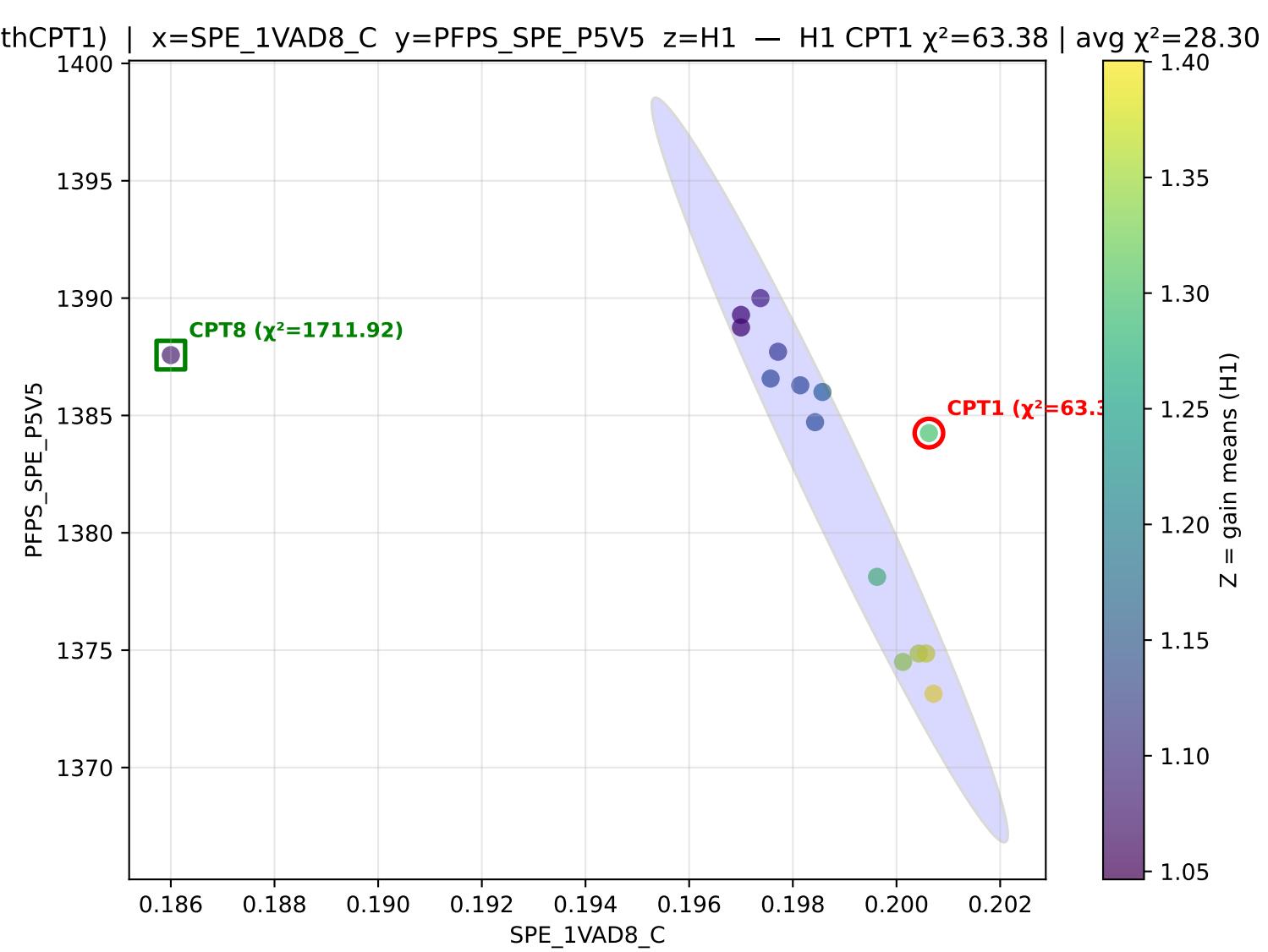


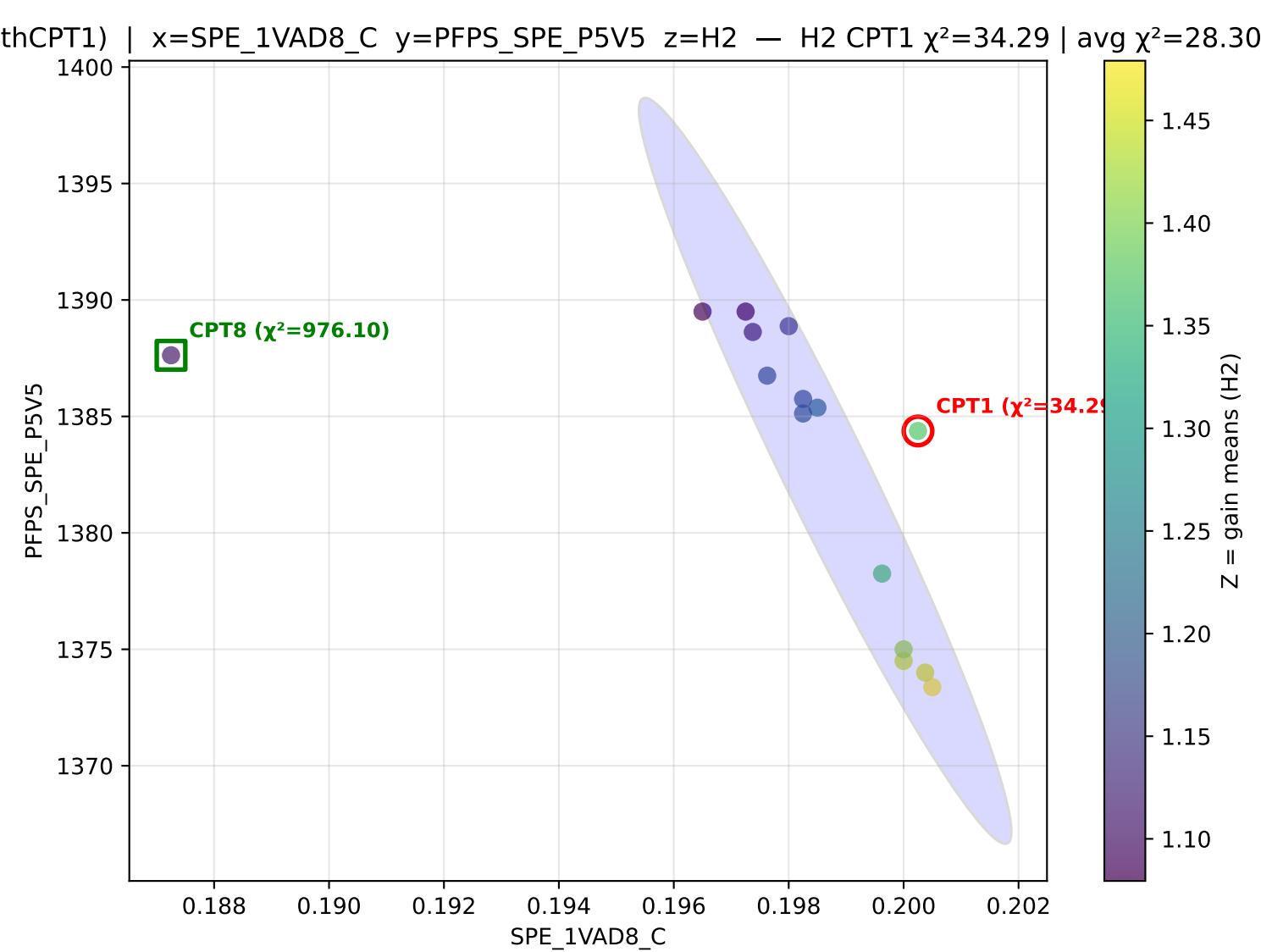
Pair: SPE\_1VAD8\_C vs PFPS\_SPE\_P5V5

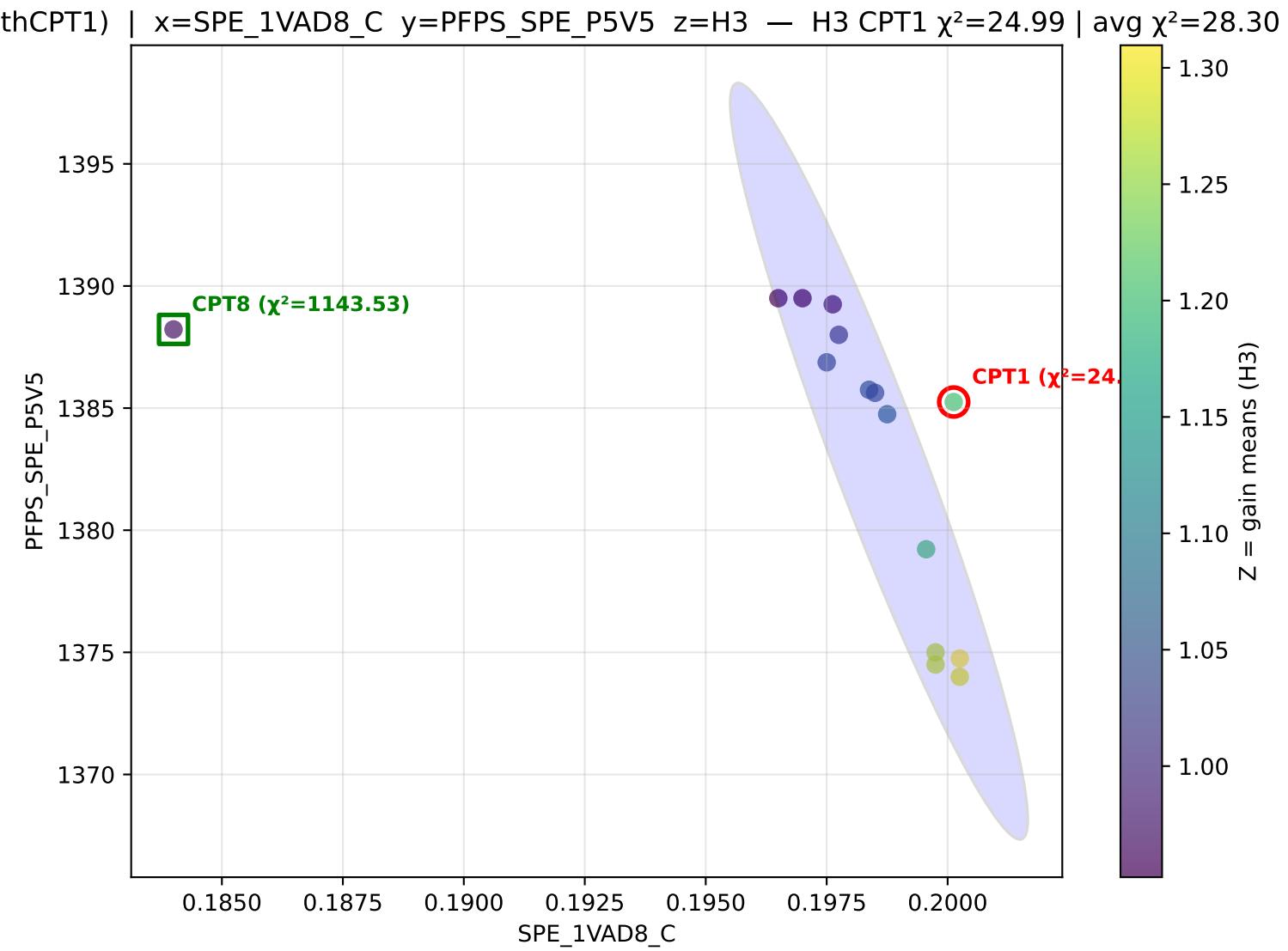
Average  $\chi^2$ (CPT1) across settings: 28.30

thCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_SPE\_P5V5}$   $z=\text{H0}$  —  $\text{H0 CPT1 } \chi^2=45.90$  | avg  $\chi^2=28.30$

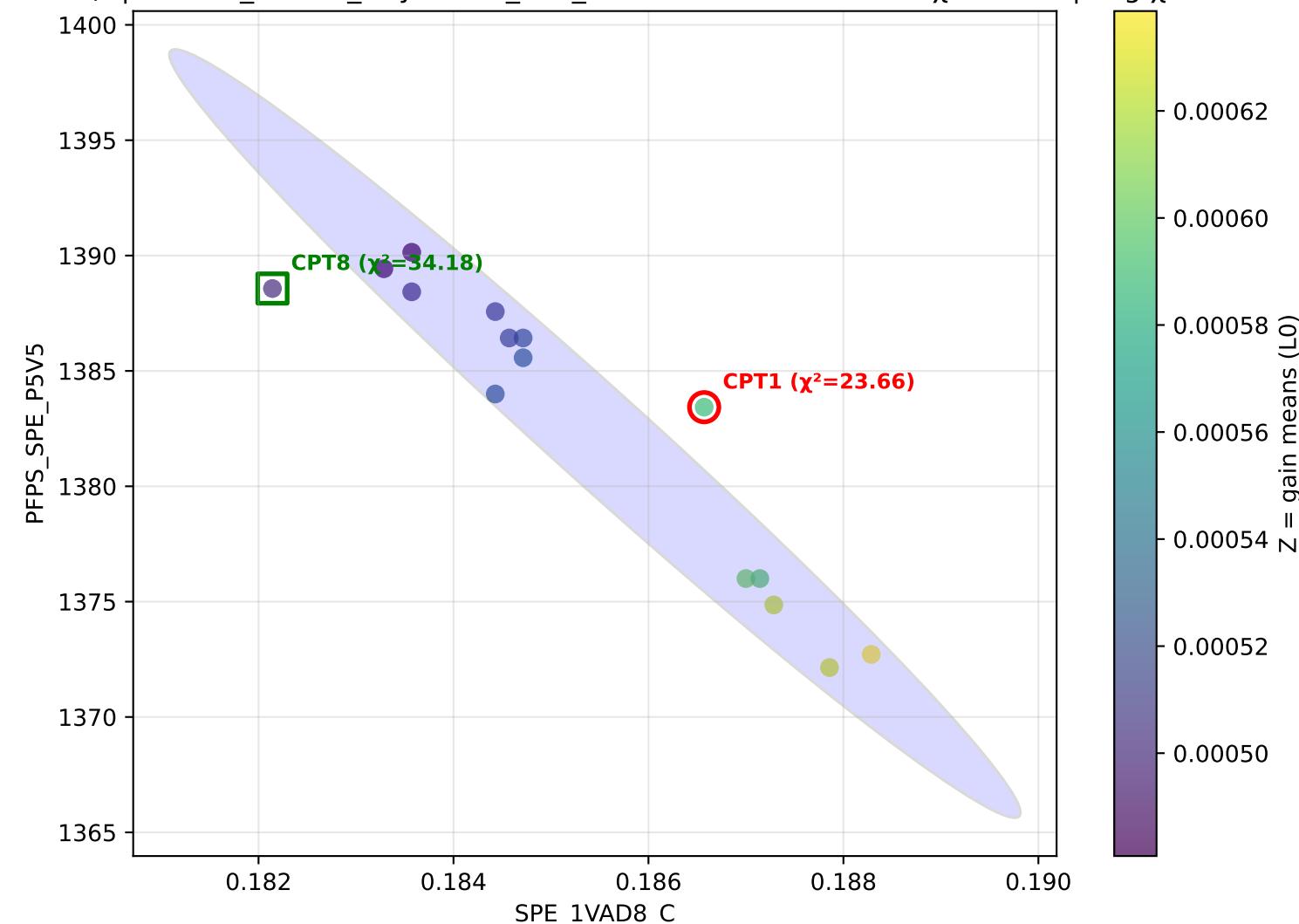


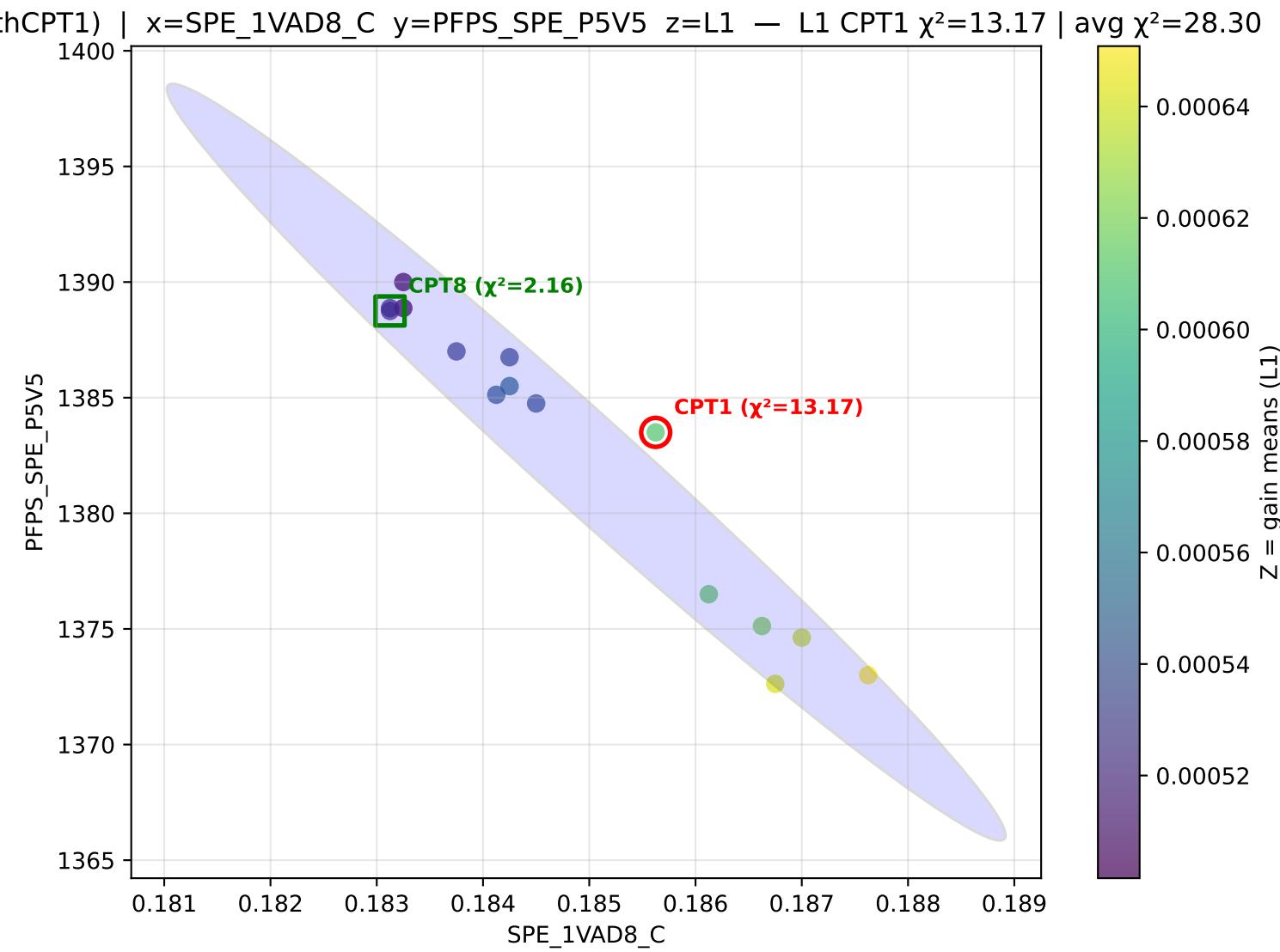


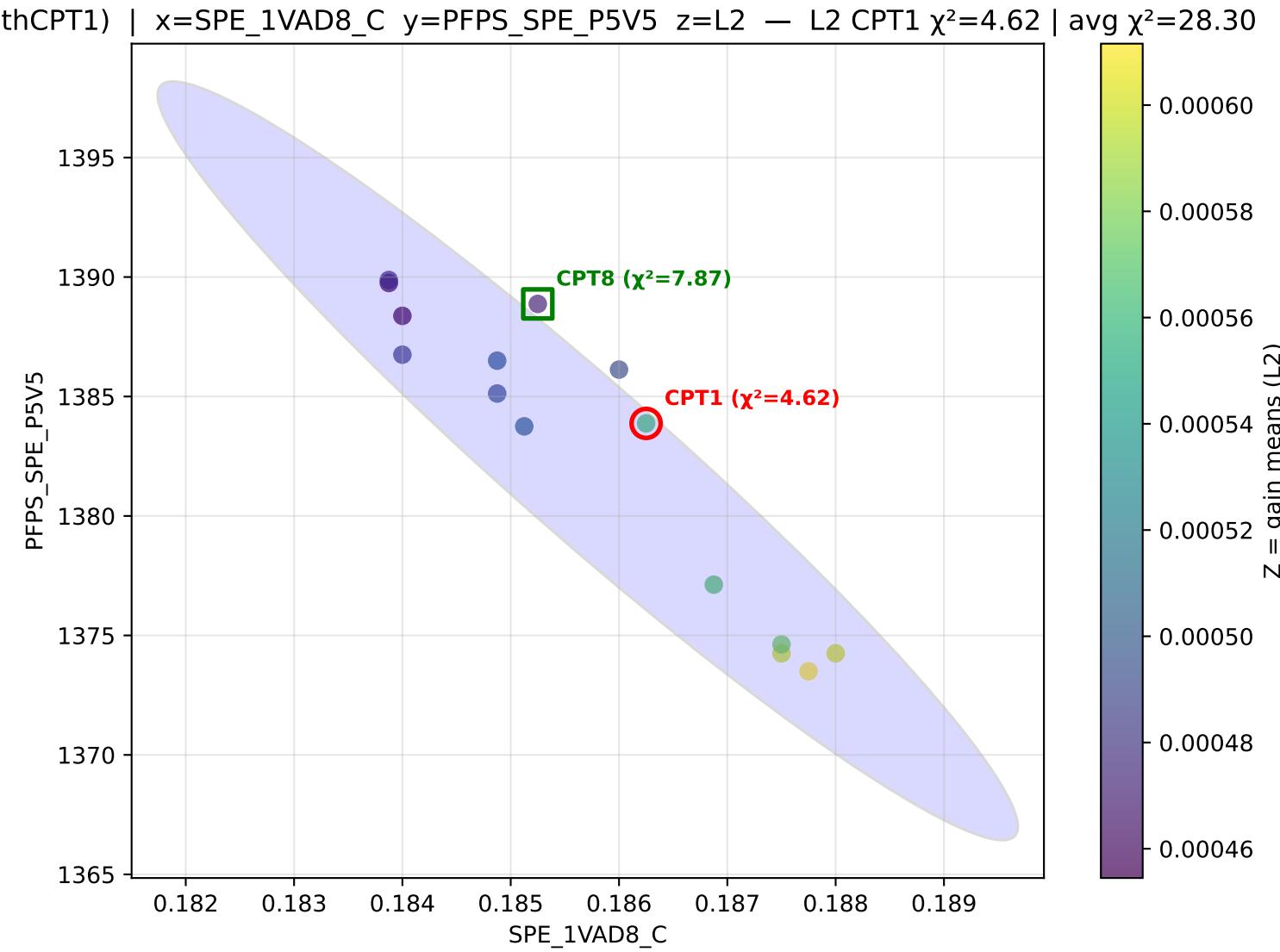


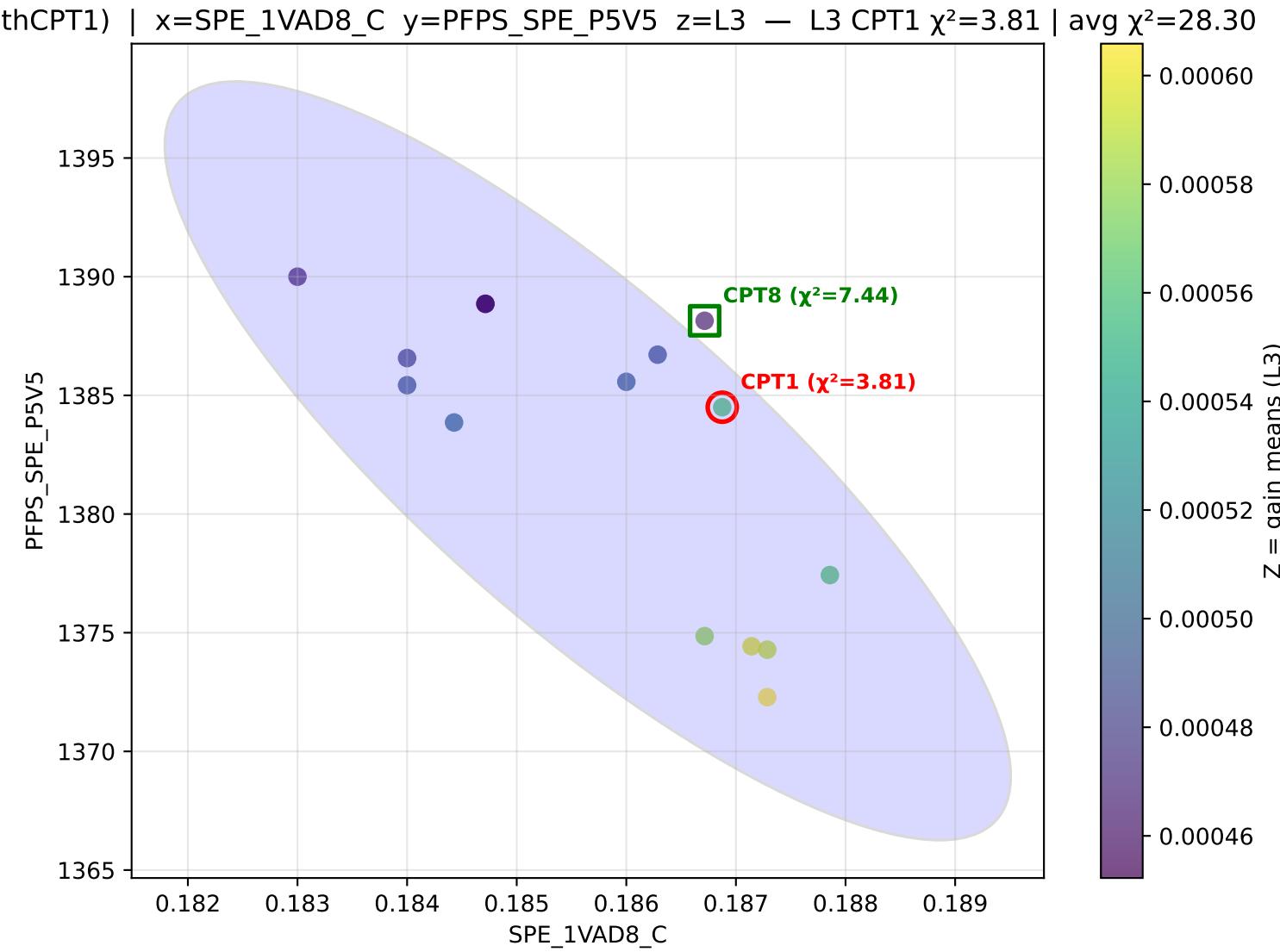


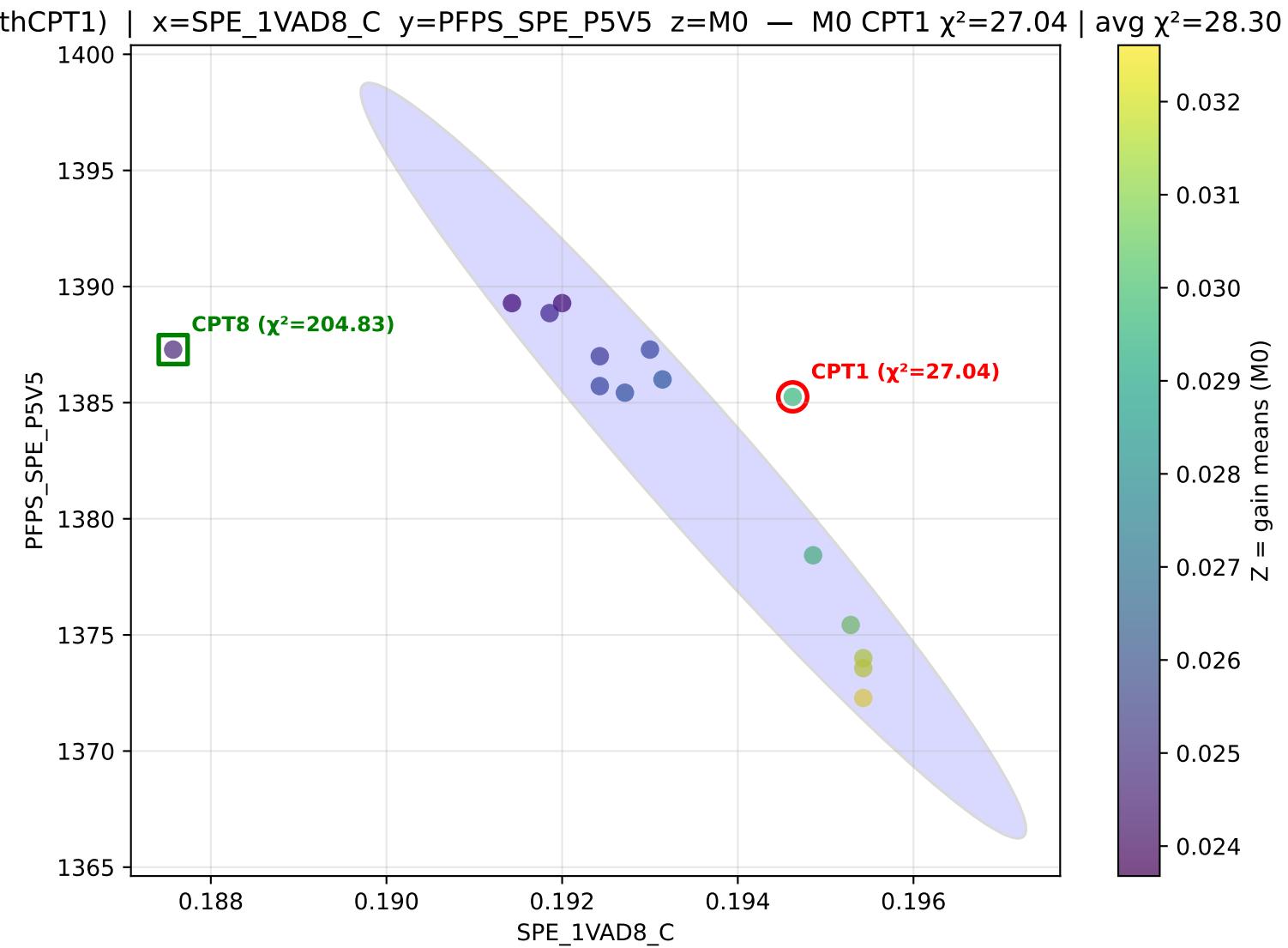
hCPT1 | x=SPE\_1VAD8\_C y=PFPS\_SPE\_P5V5 z=L0 — L0 CPT1  $\chi^2=23.66$  | avg  $\chi^2=28.30$

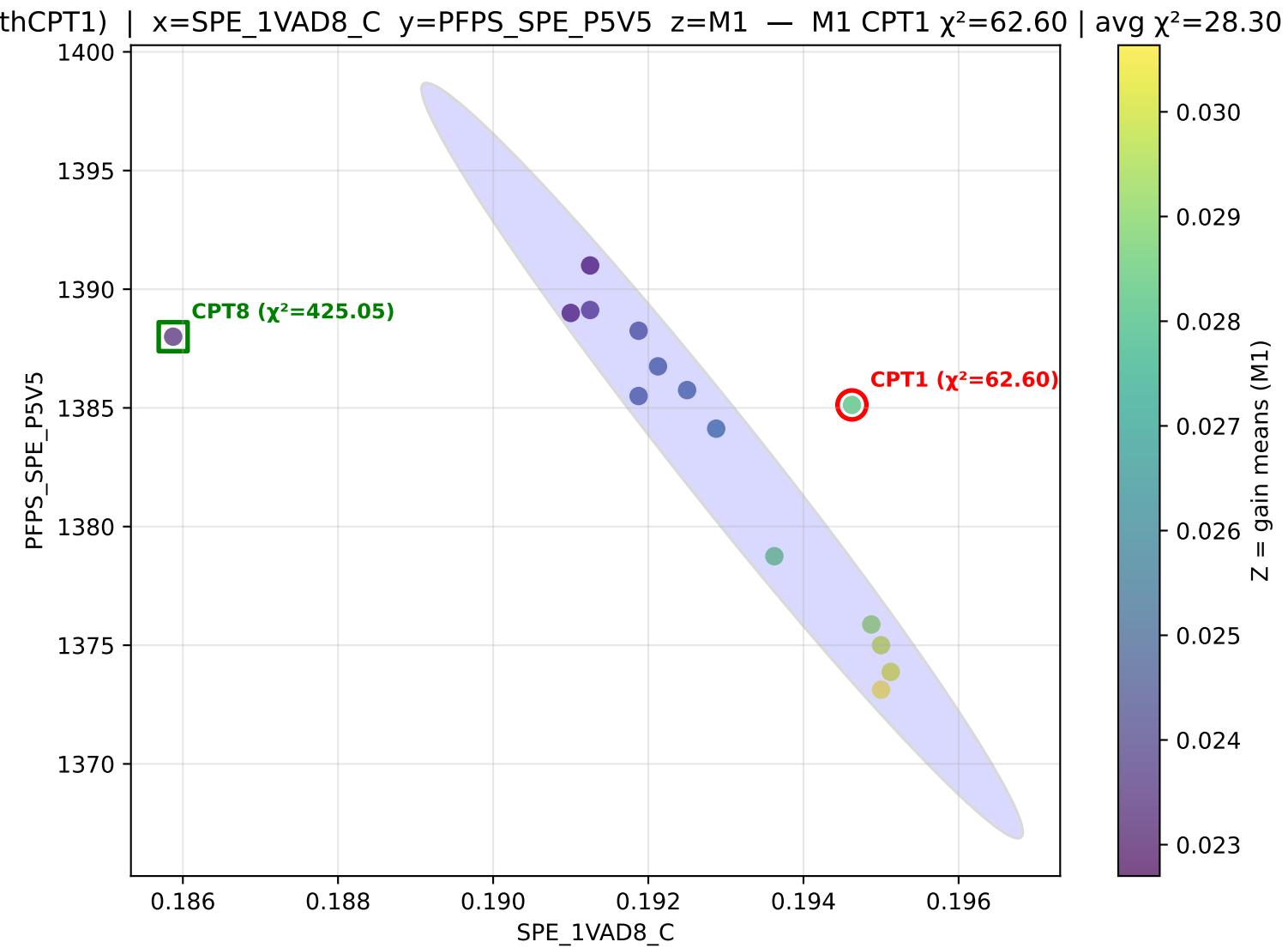


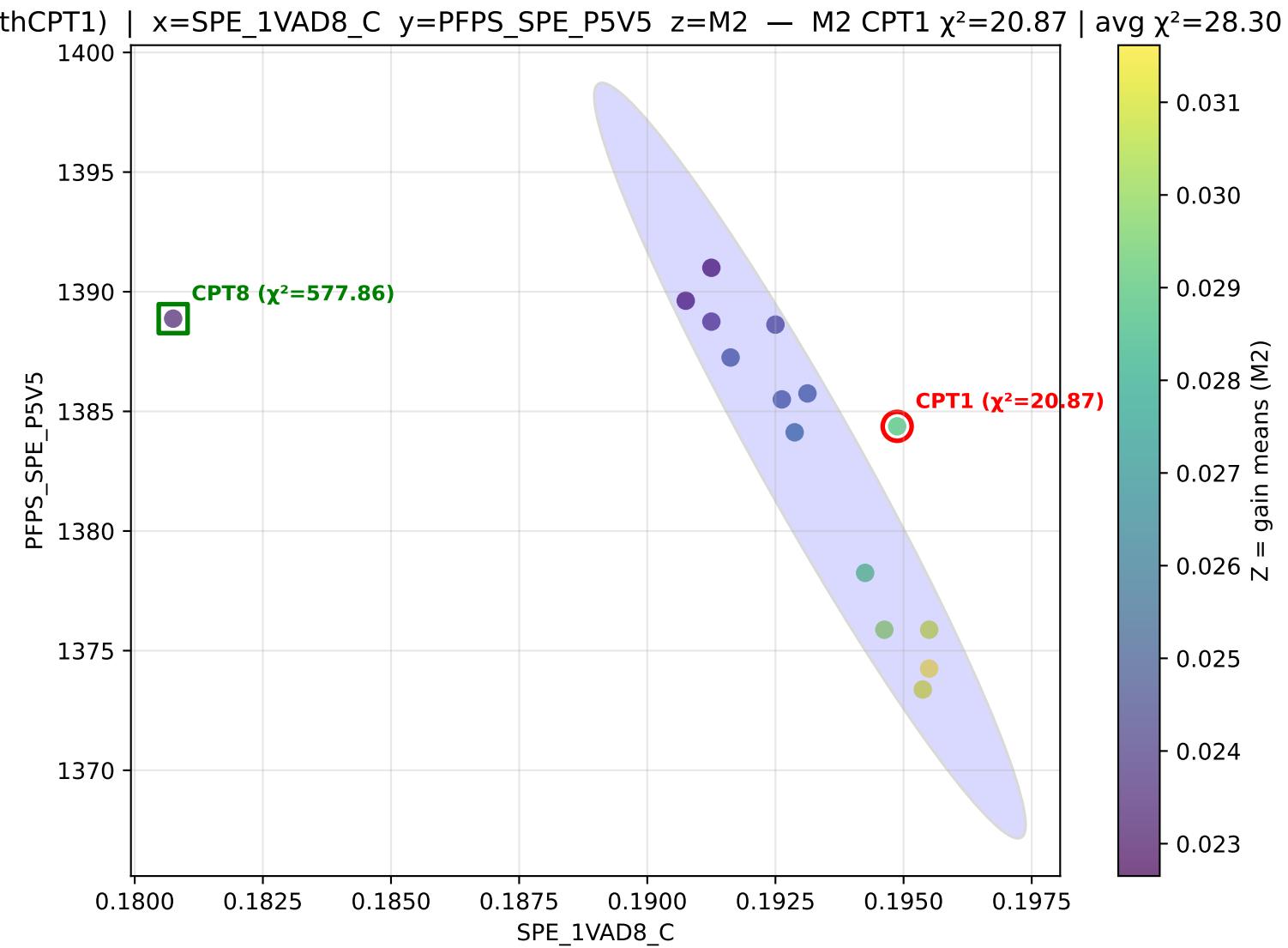


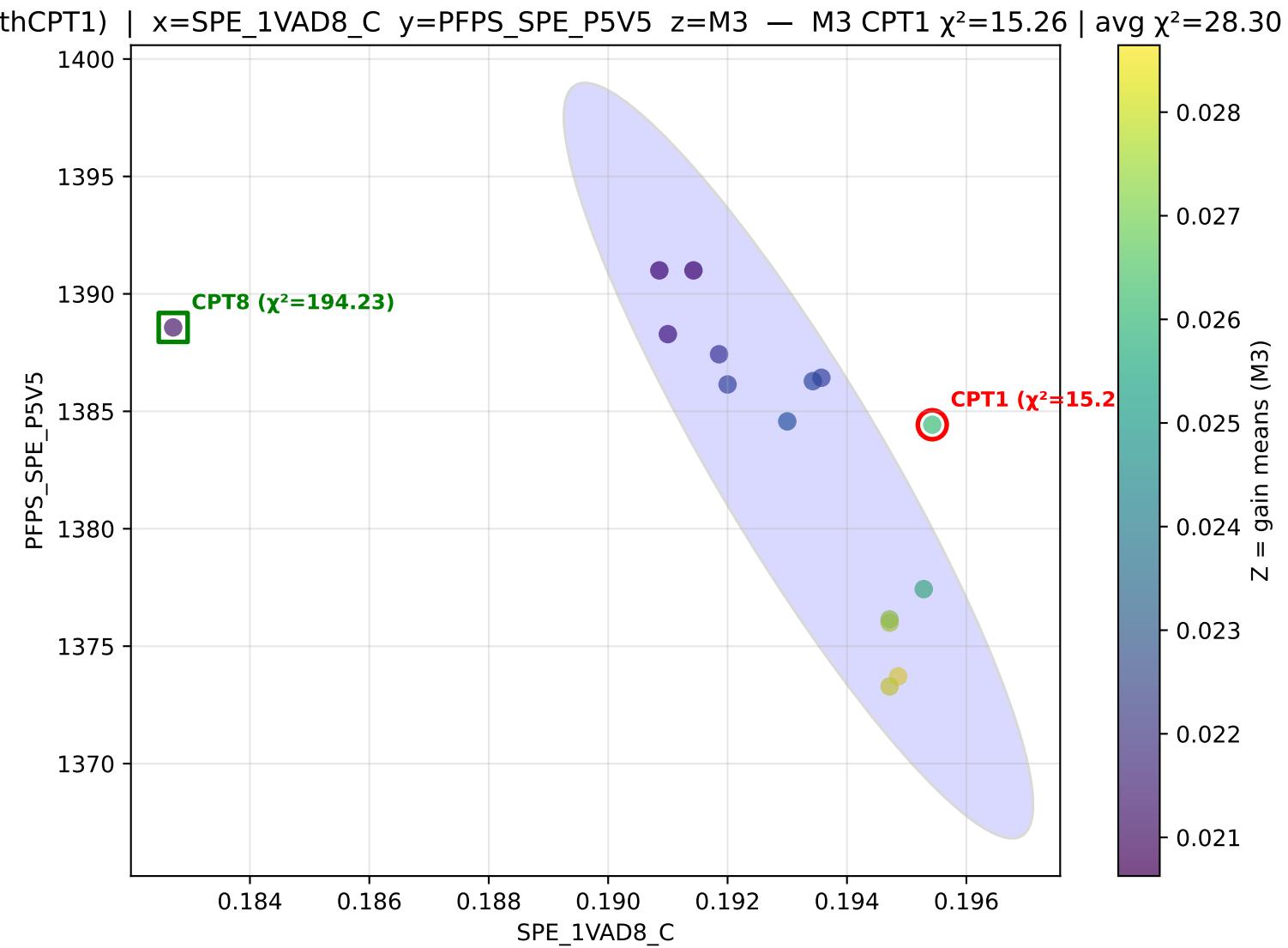








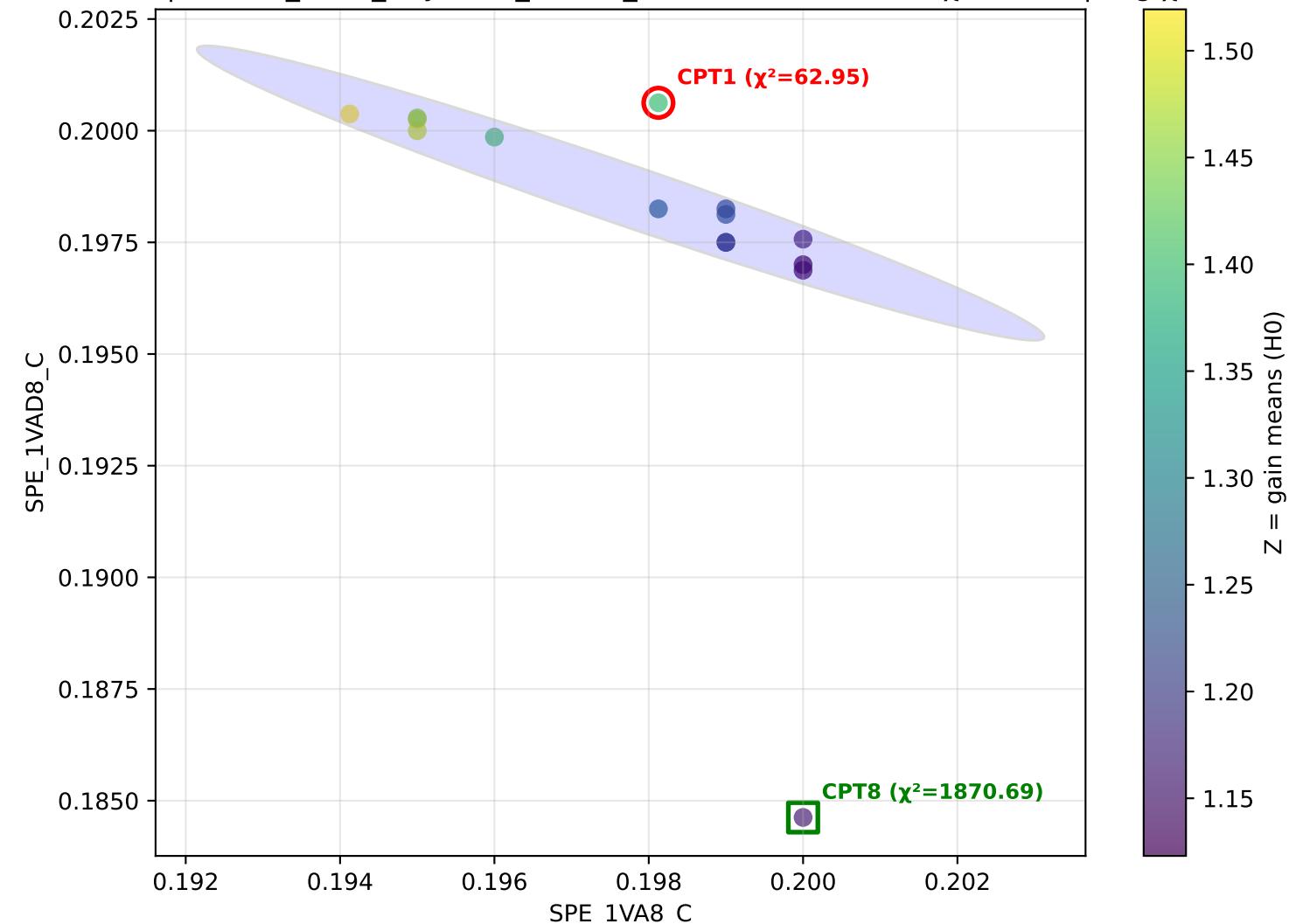




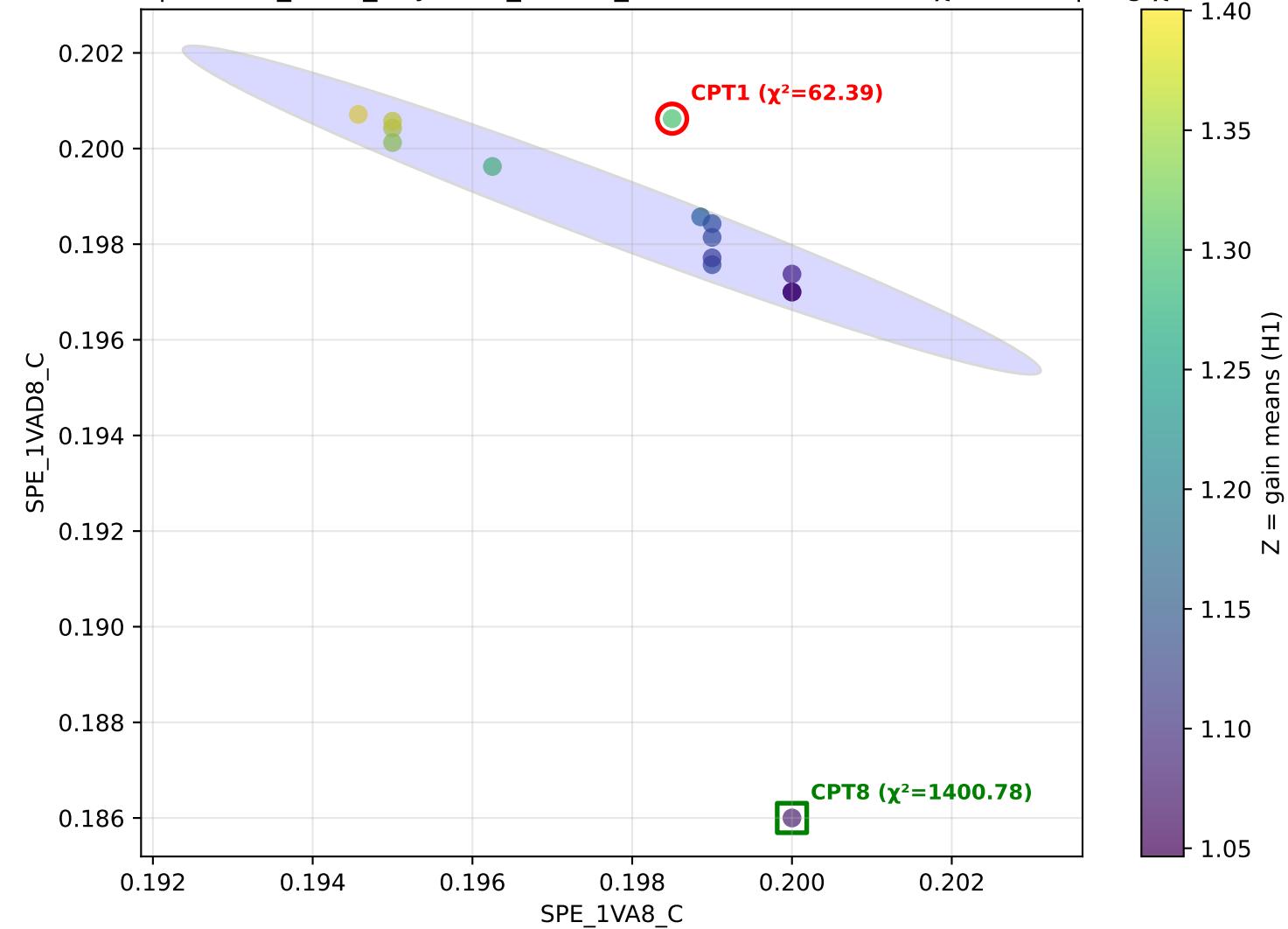
Pair: SPE\_1VA8\_C vs SPE\_1VAD8\_C

Average  $\chi^2$ (CPT1) across settings: 27.68

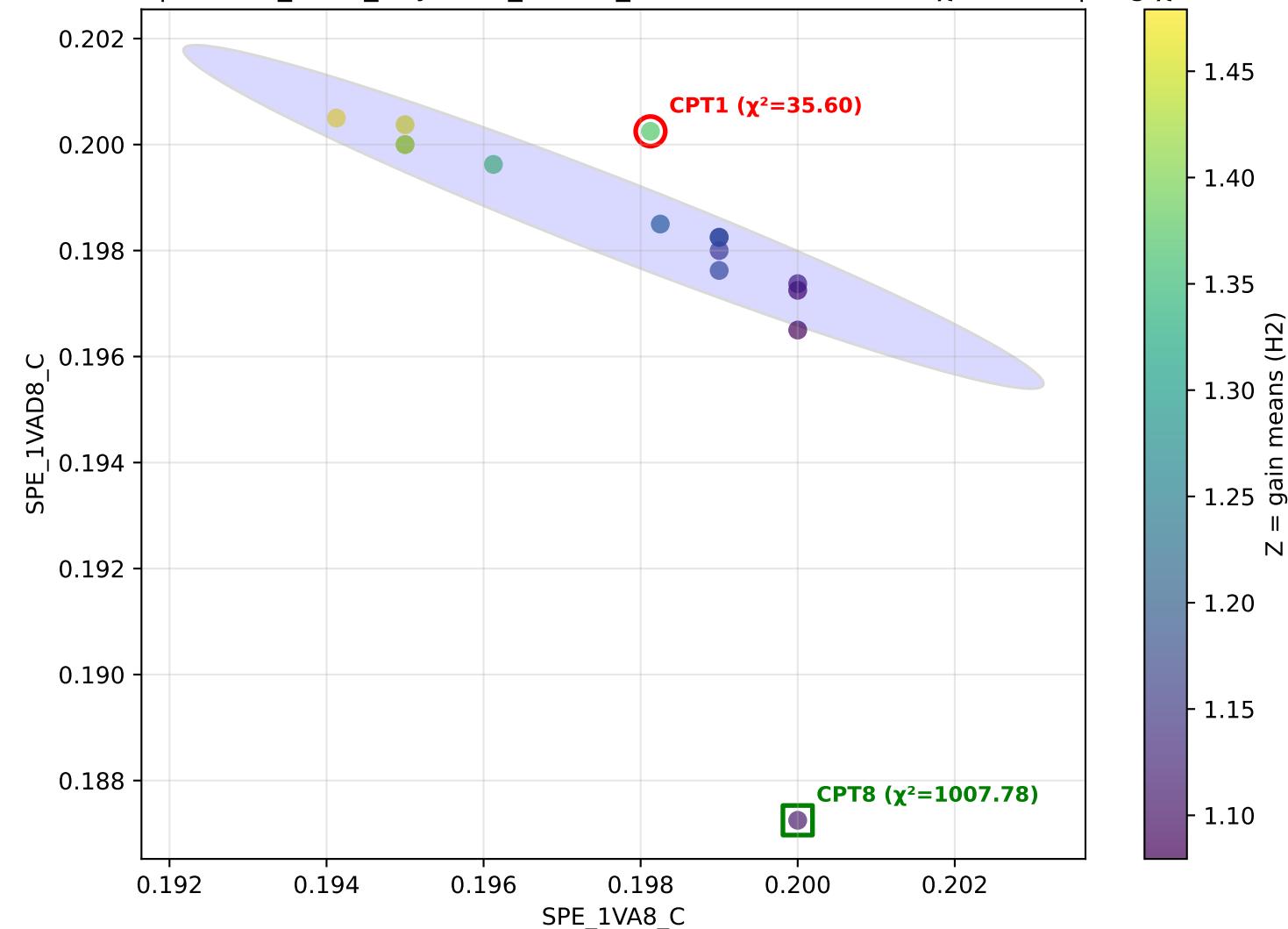
(withCPT1) | x=SPE\_1VA8\_C y=SPE\_1VAD8\_C z=H0 — H0 CPT1  $\chi^2=62.95$  | avg  $\chi^2=27.68$



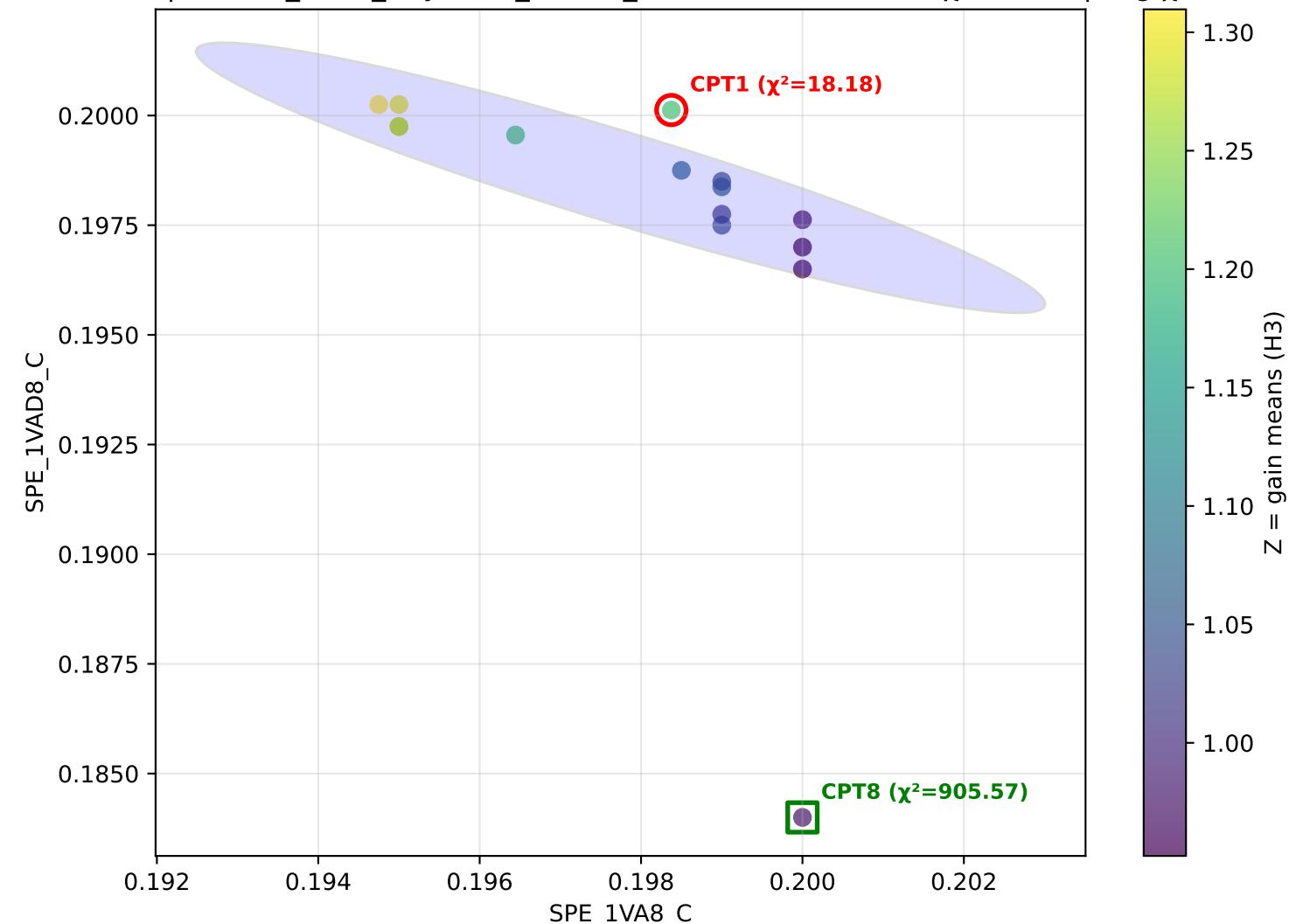
withCPT1) |  $x=\text{SPE\_1VA8\_C}$   $y=\text{SPE\_1VAD8\_C}$   $z=\text{H1}$  — H1 CPT1  $\chi^2=62.39$  | avg  $\chi^2=27.68$



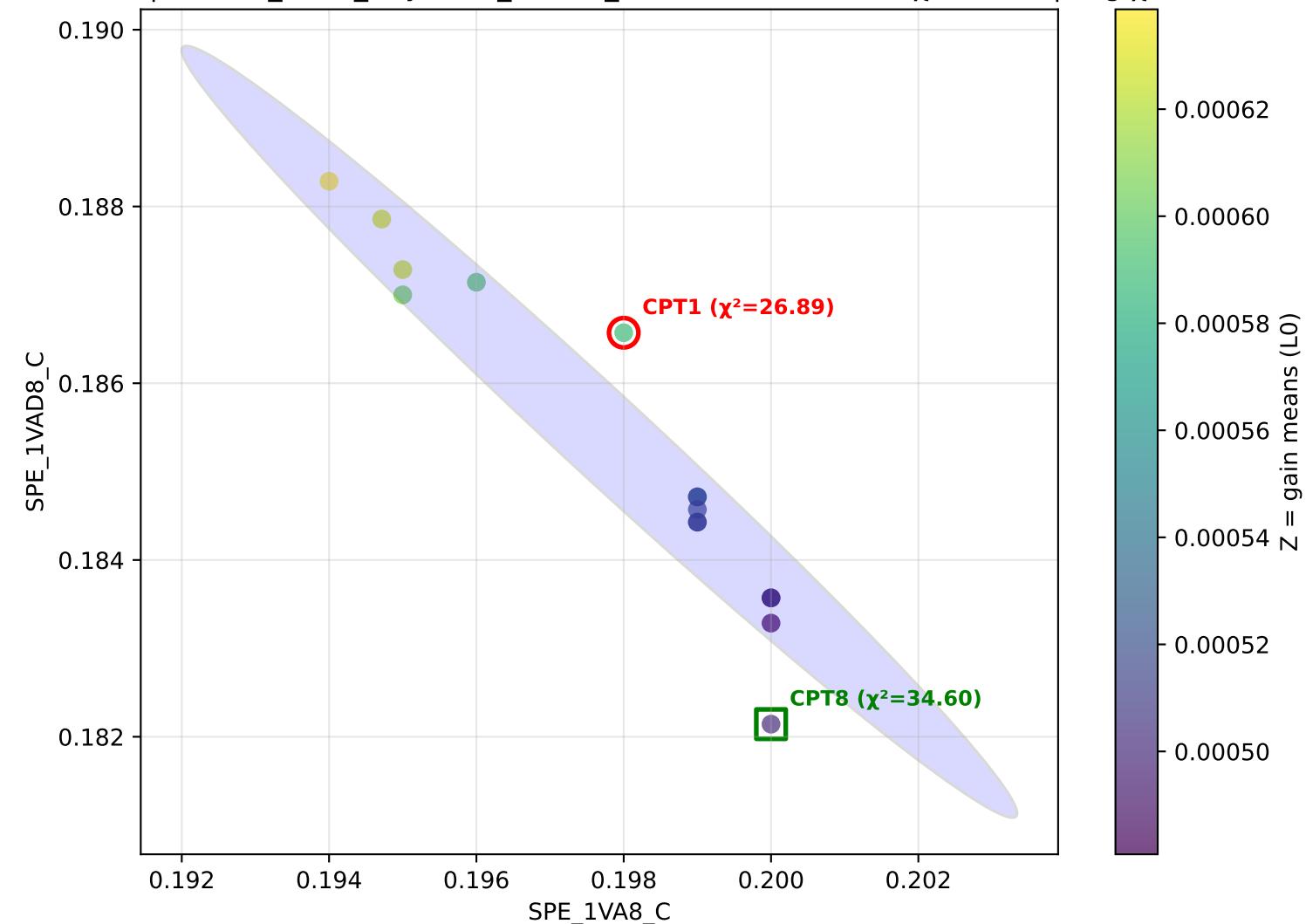
withCPT1) |  $x=\text{SPE\_1VA8\_C}$   $y=\text{SPE\_1VAD8\_C}$   $z=\text{H2}$  — H2 CPT1  $\chi^2=35.60$  | avg  $\chi^2=27.68$

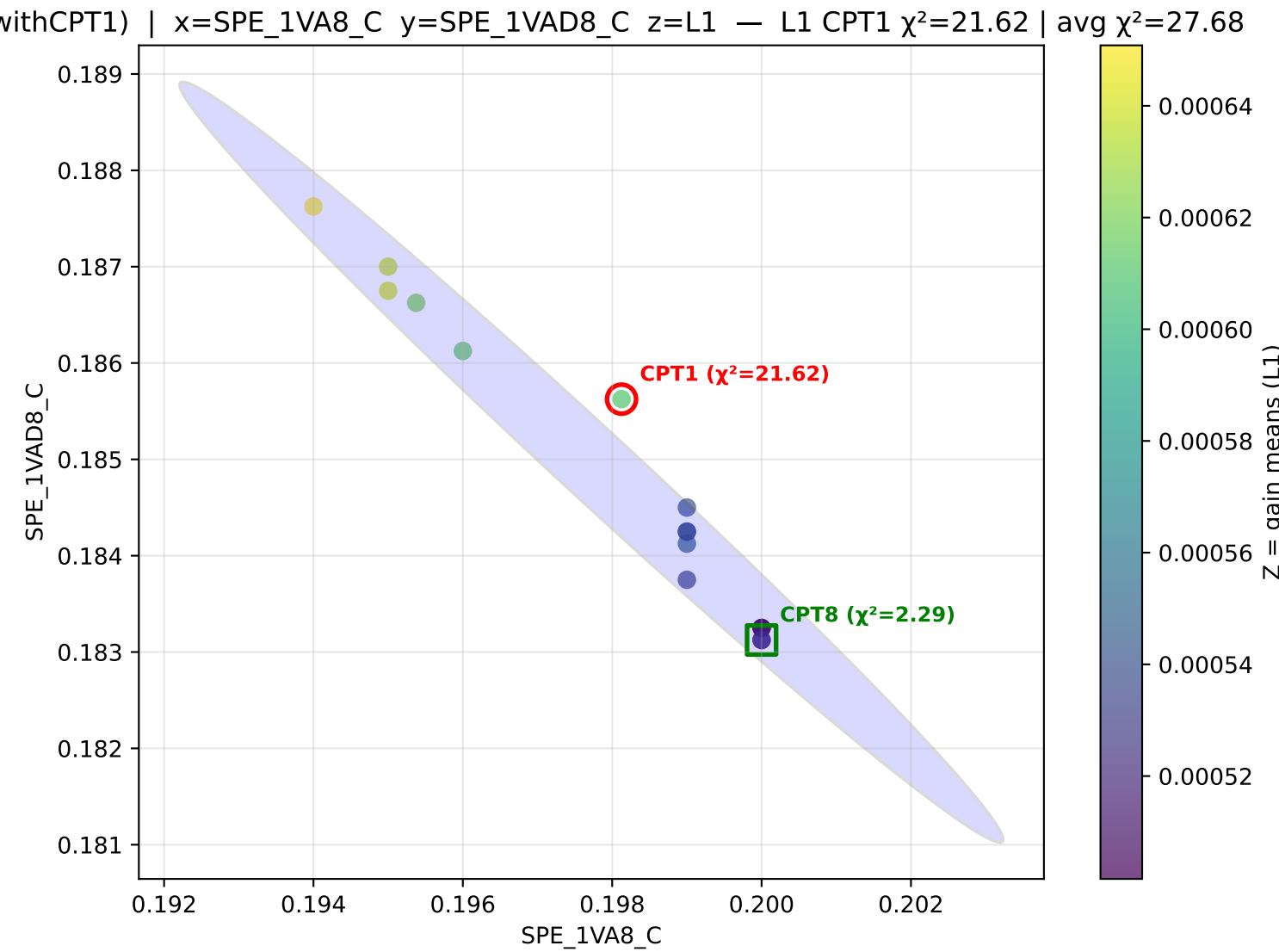


(withCPT1) | x=SPE\_1VA8\_C y=SPE\_1VAD8\_C z=H3 — H3 CPT1  $\chi^2=18.18$  | avg  $\chi^2=27.68$

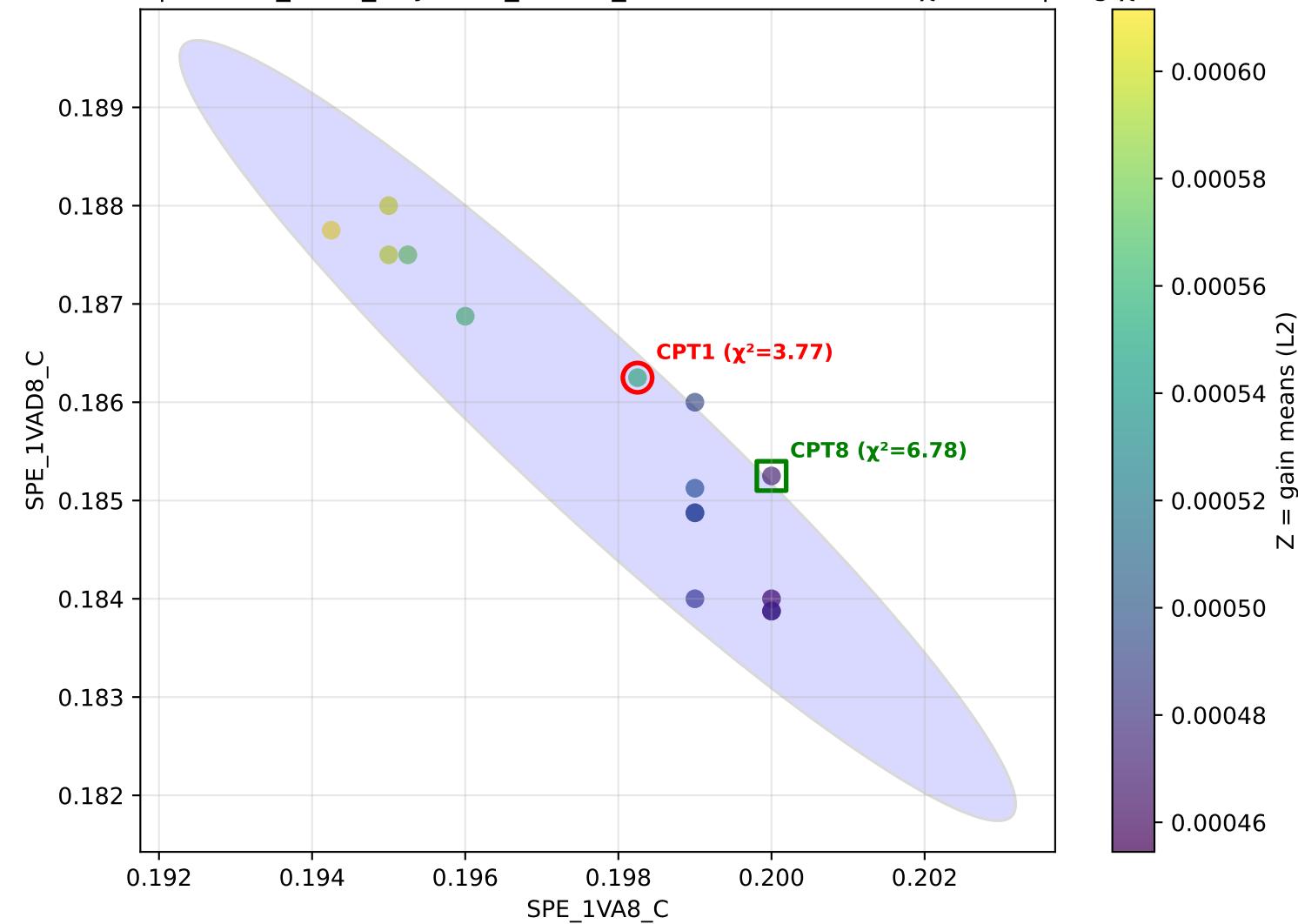


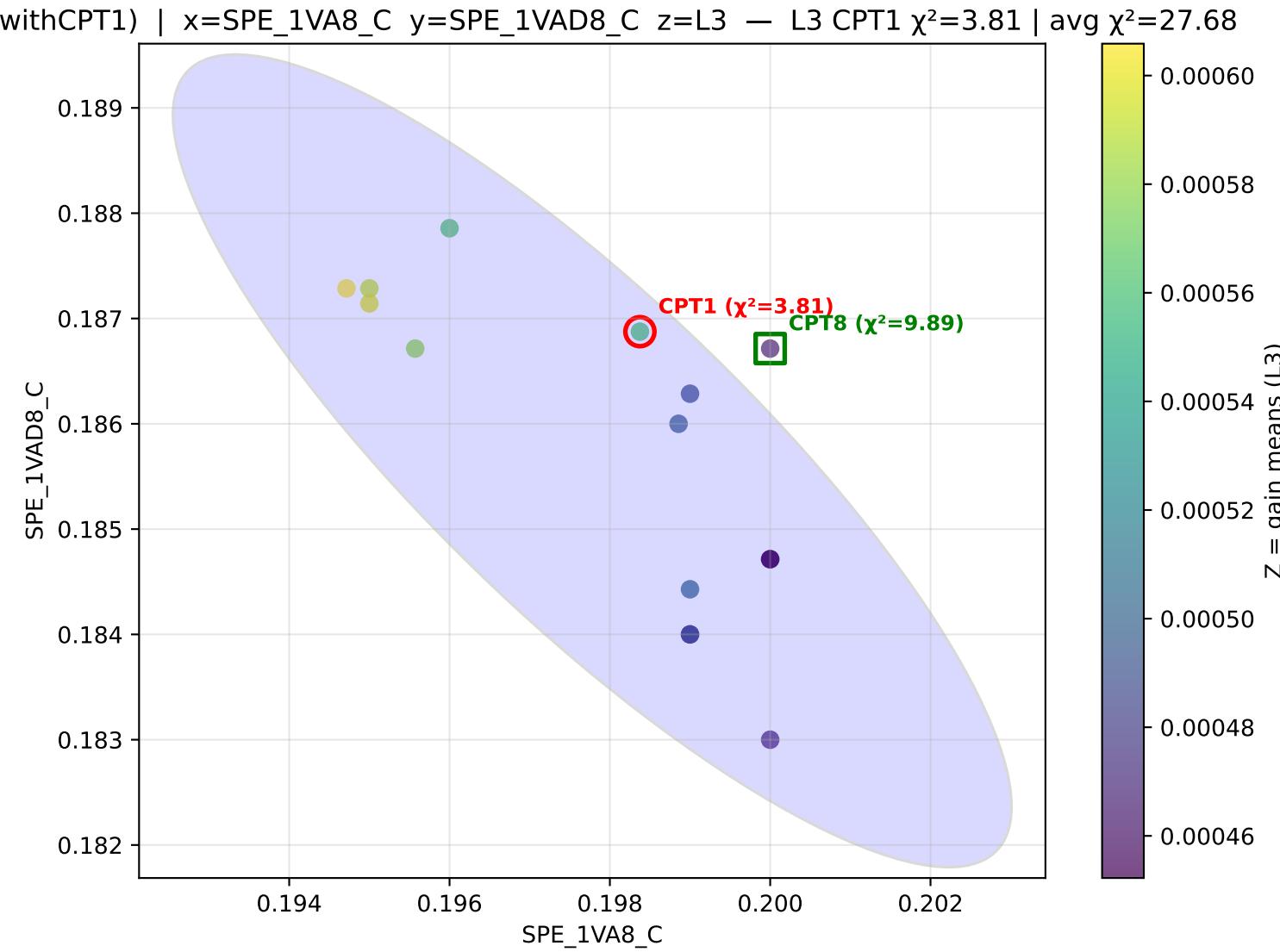
withCPT1) |  $x=\text{SPE\_1VA8\_C}$   $y=\text{SPE\_1VAD8\_C}$   $z=L_0$  —  $L_0 \text{ CPT1 } \chi^2=26.89$  | avg  $\chi^2=27.68$



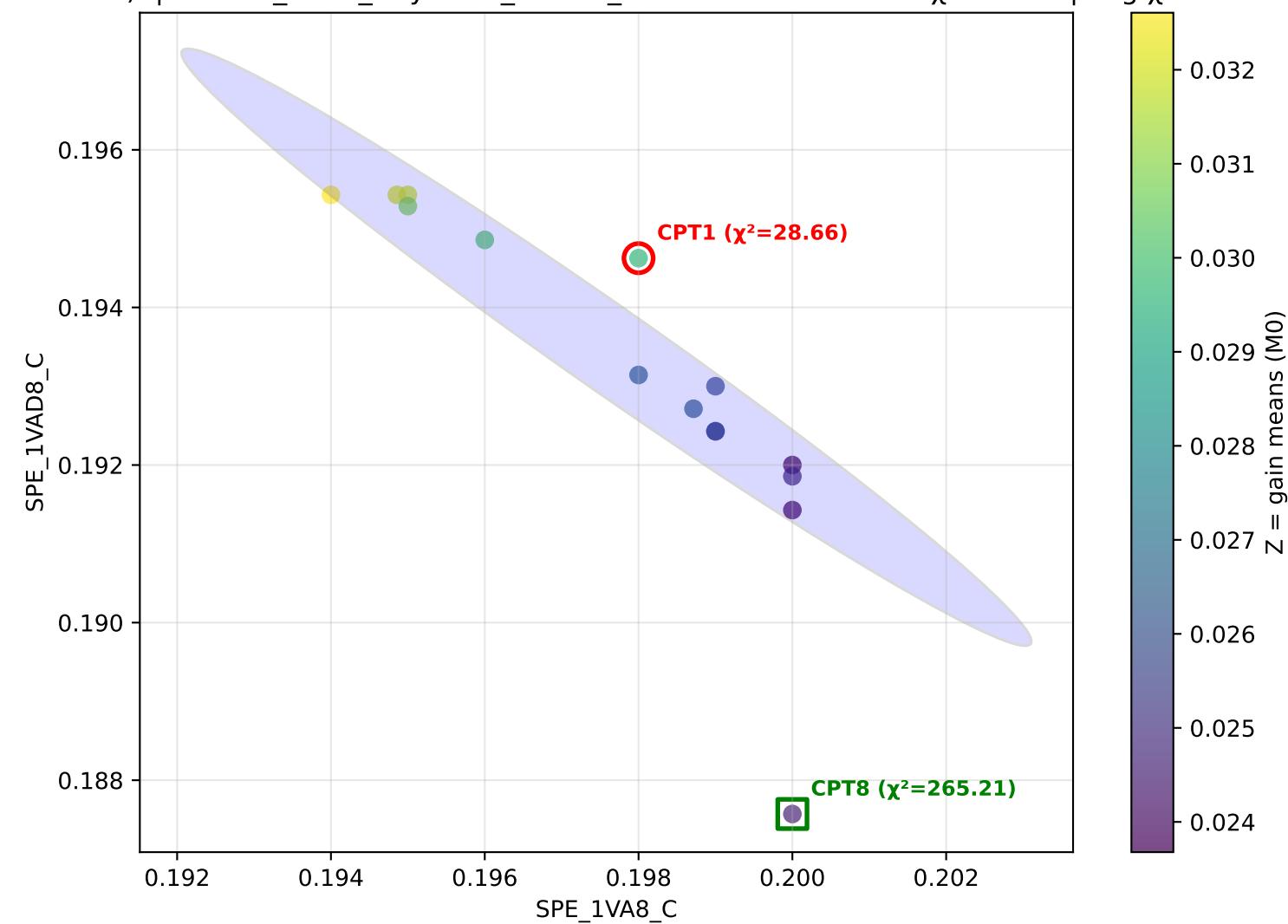


withCPT1) |  $x=\text{SPE\_1VA8\_C}$   $y=\text{SPE\_1VAD8\_C}$   $z=L2$  — L2 CPT1  $\chi^2=3.77$  | avg  $\chi^2=27.68$

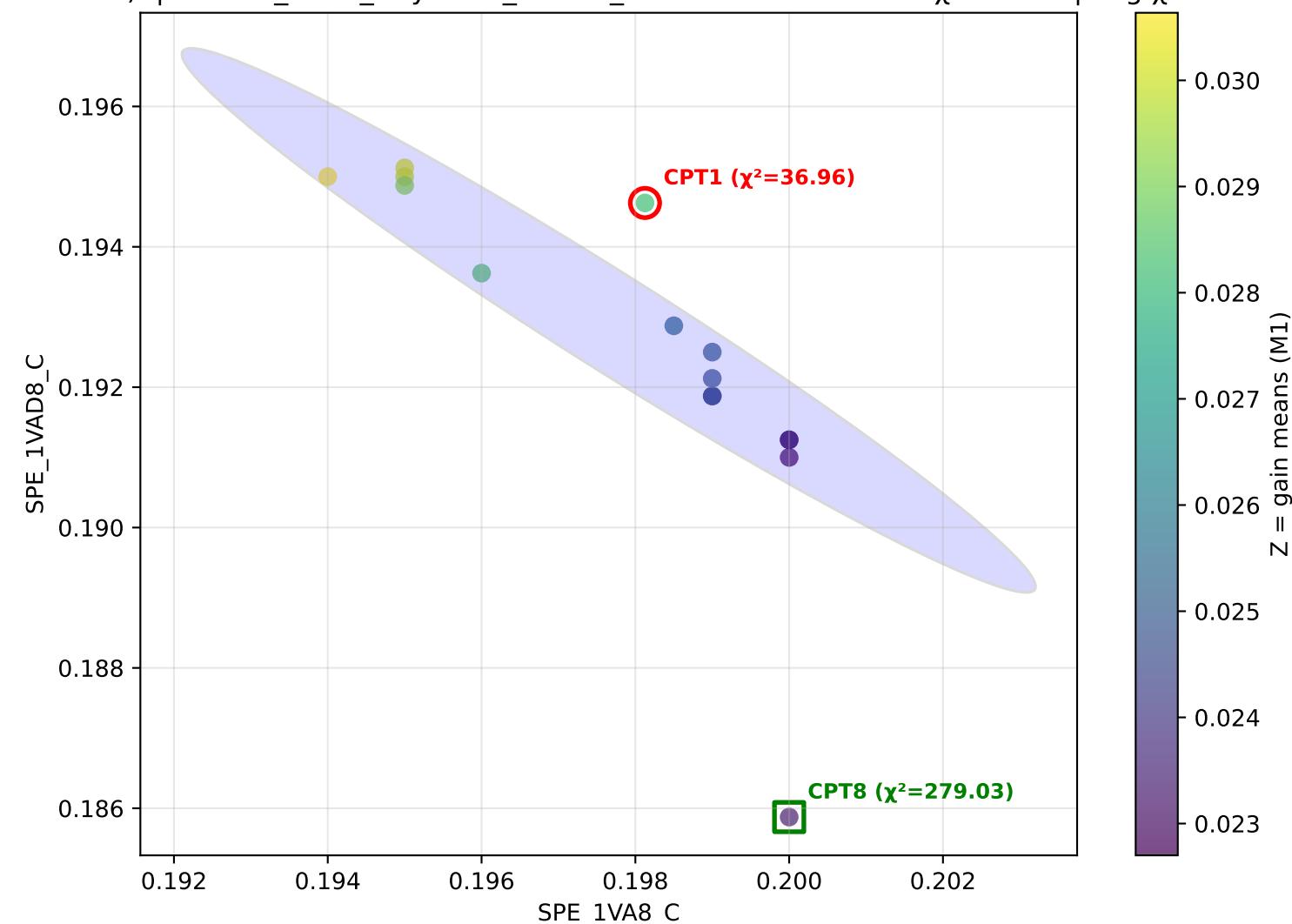


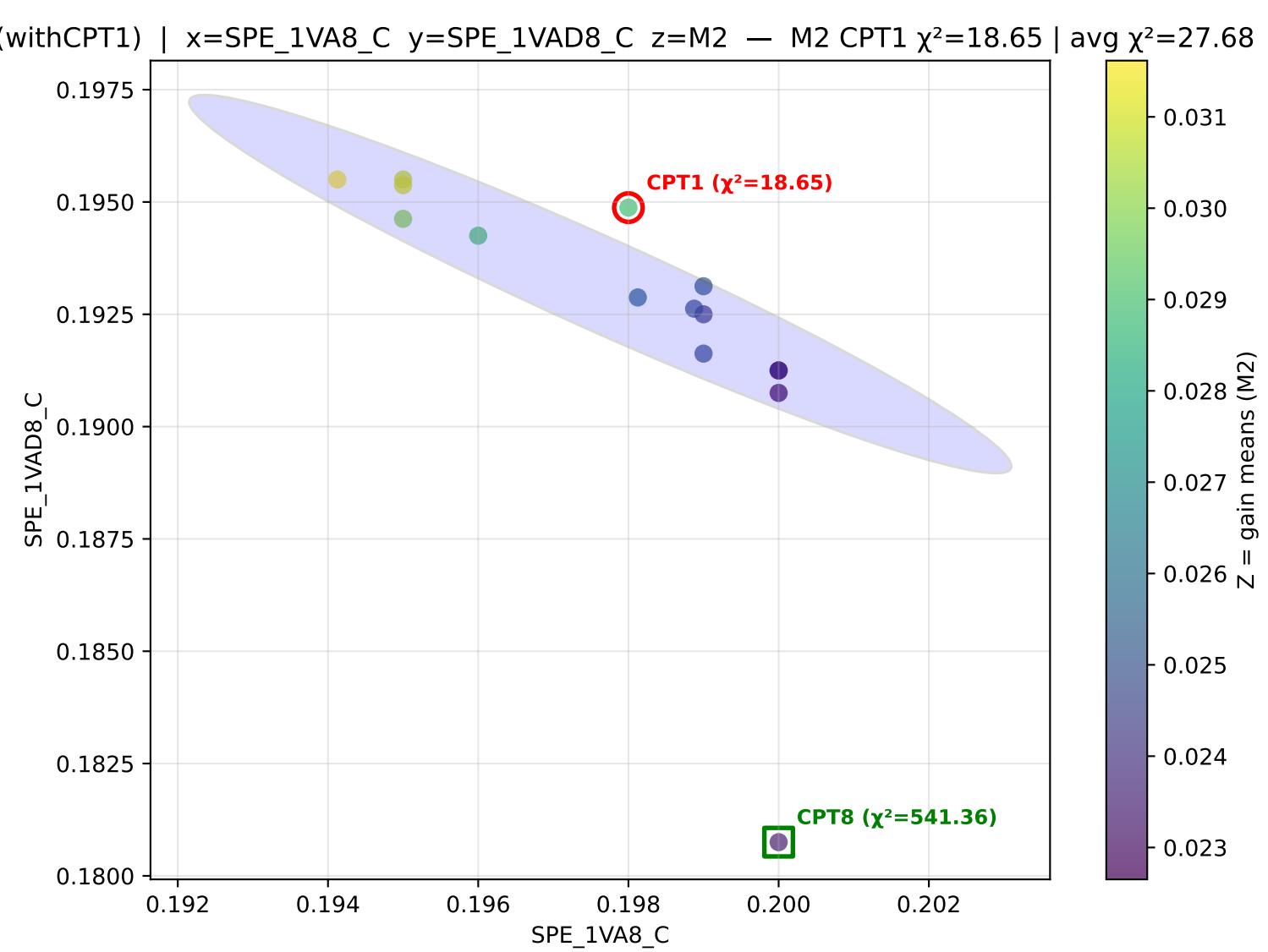


withCPT1) |  $x=\text{SPE\_1VA8\_C}$   $y=\text{SPE\_1VAD8\_C}$   $z=M0$  — M0 CPT1  $\chi^2=28.66$  | avg  $\chi^2=27.68$

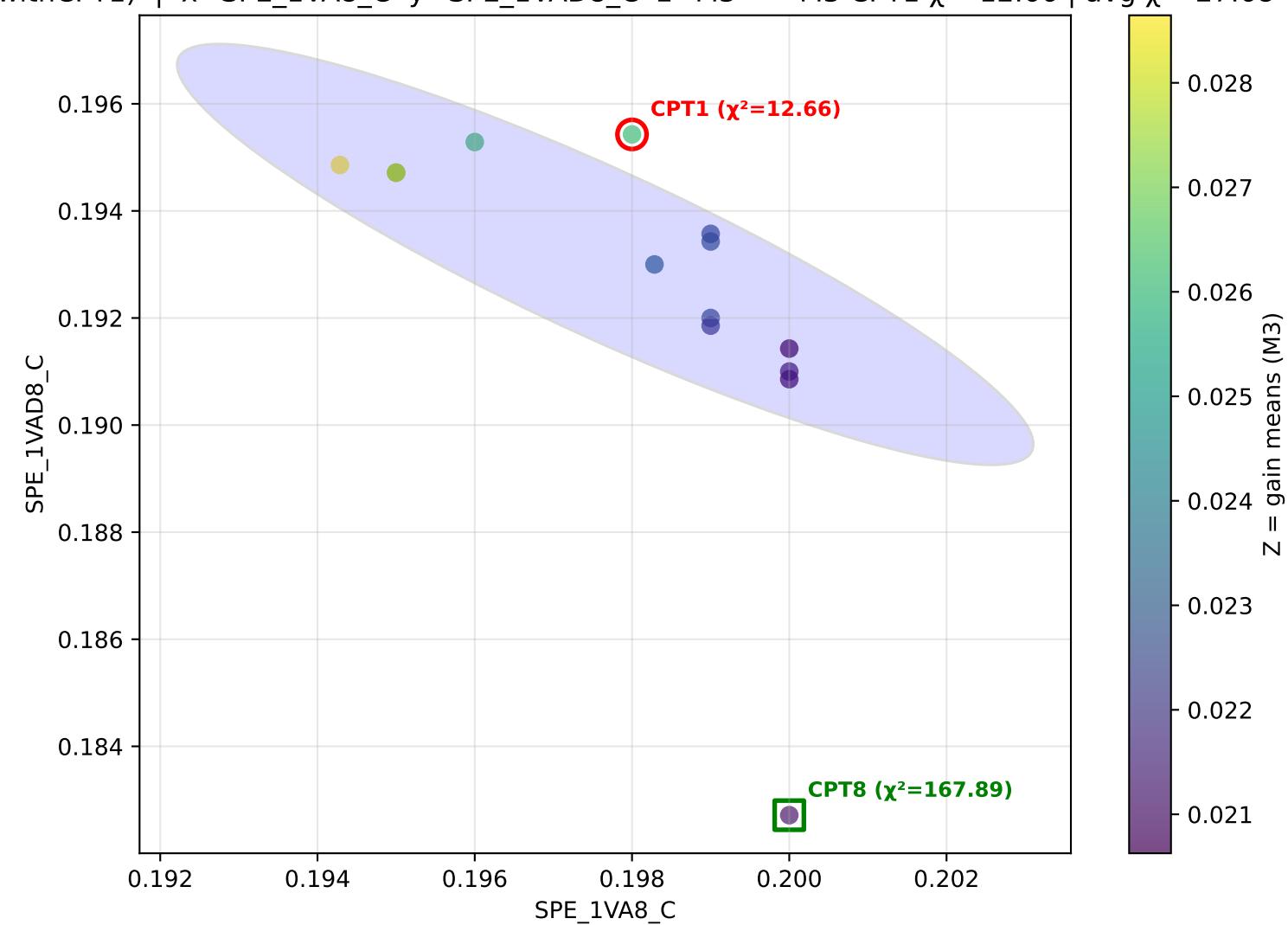


withCPT1) |  $x=\text{SPE\_1VA8\_C}$   $y=\text{SPE\_1VAD8\_C}$   $z=M1$  — M1 CPT1  $\chi^2=36.96$  | avg  $\chi^2=27.68$





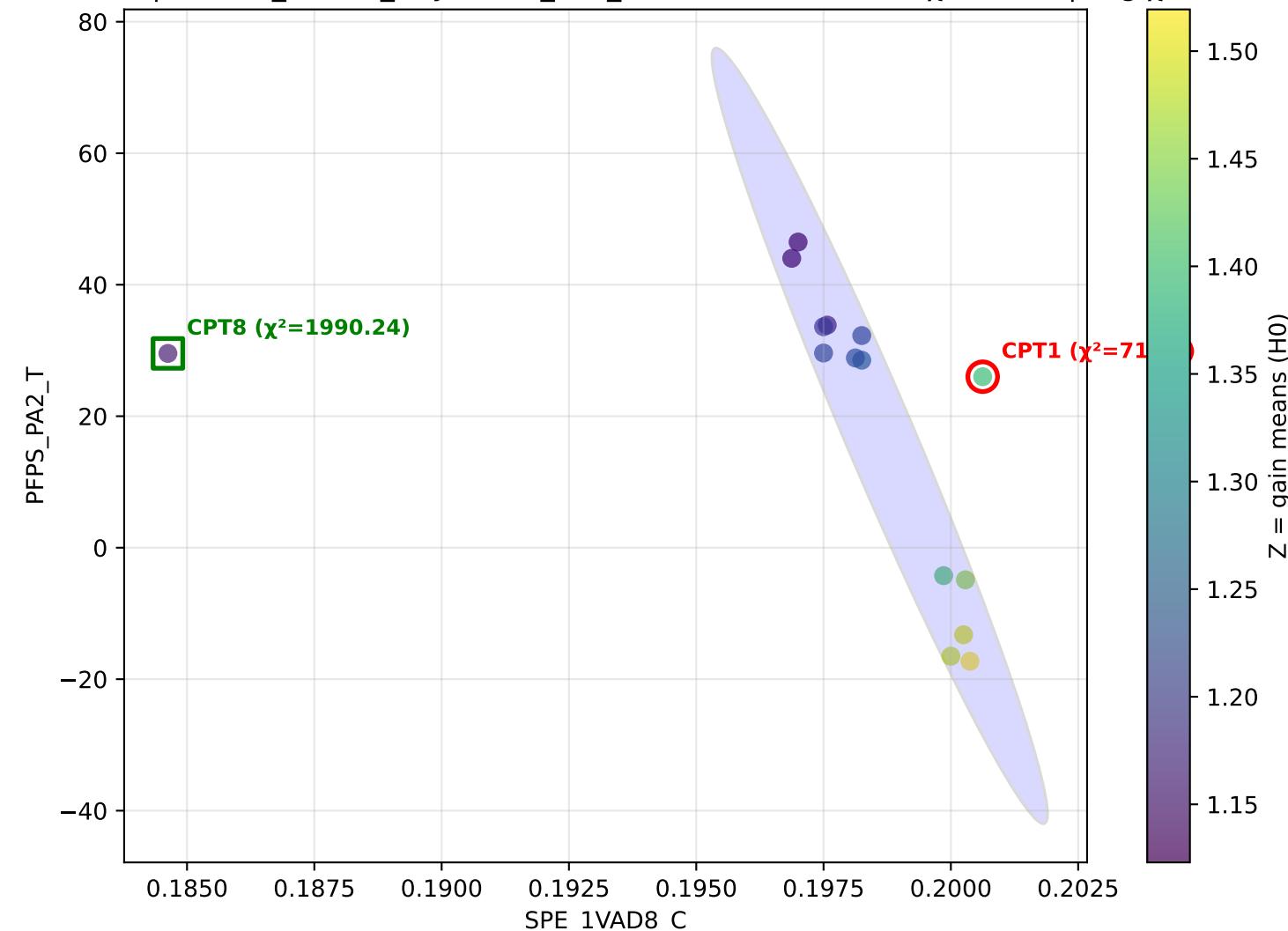
withCPT1) |  $x=\text{SPE\_1VA8\_C}$   $y=\text{SPE\_1VAD8\_C}$   $z=M3$  — M3 CPT1  $\chi^2=12.66$  | avg  $\chi^2=27.68$



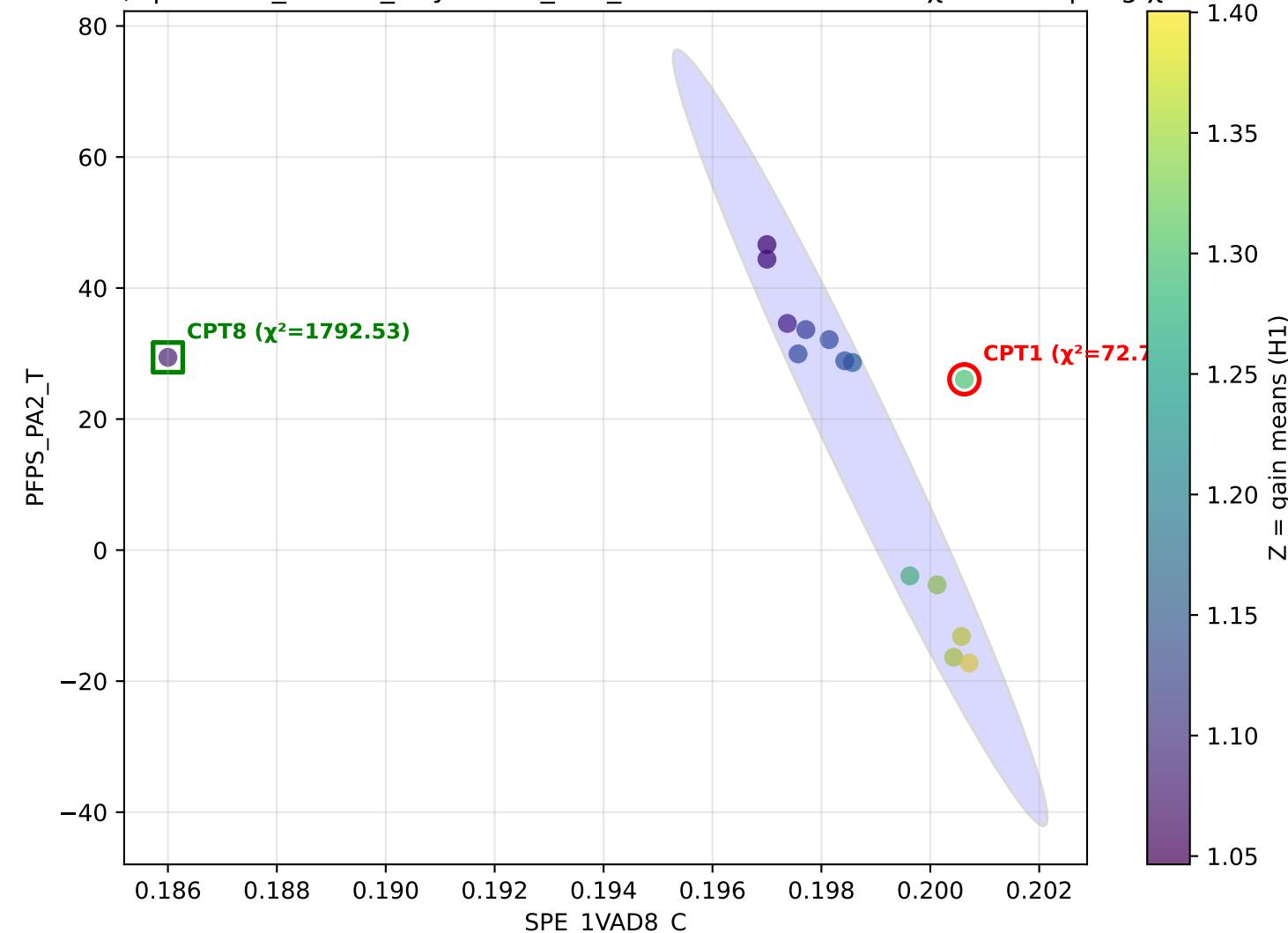
Pair: SPE\_1VAD8\_C vs PFPS\_PA2\_T

Average  $\chi^2$ (CPT1) across settings: 27.14

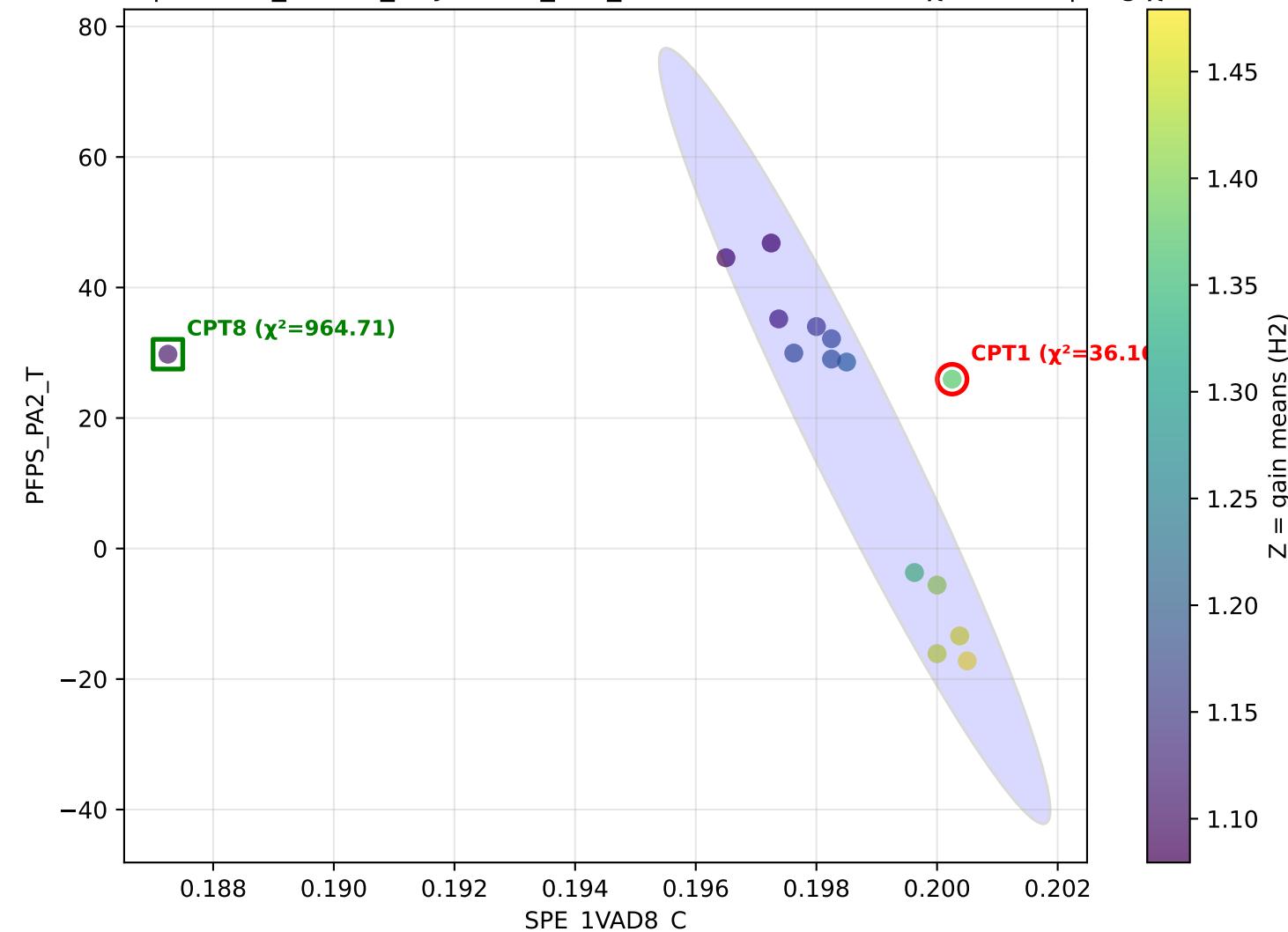
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA2\_T z=H0 — H0 CPT1  $\chi^2=71.21$  | avg  $\chi^2=27.14$



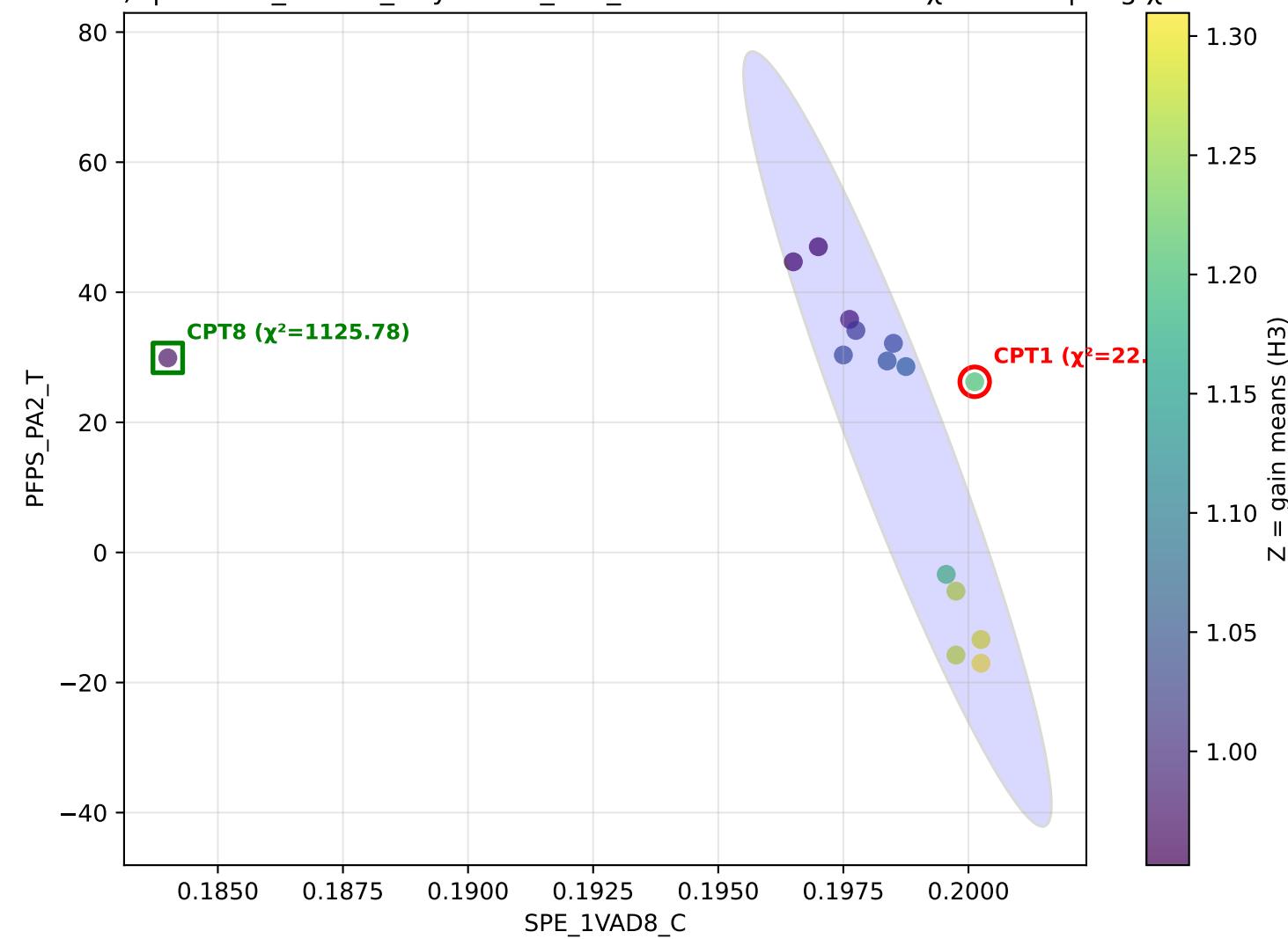
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA2\_T z=H1 — H1 CPT1  $\chi^2=72.76$  | avg  $\chi^2=27.14$

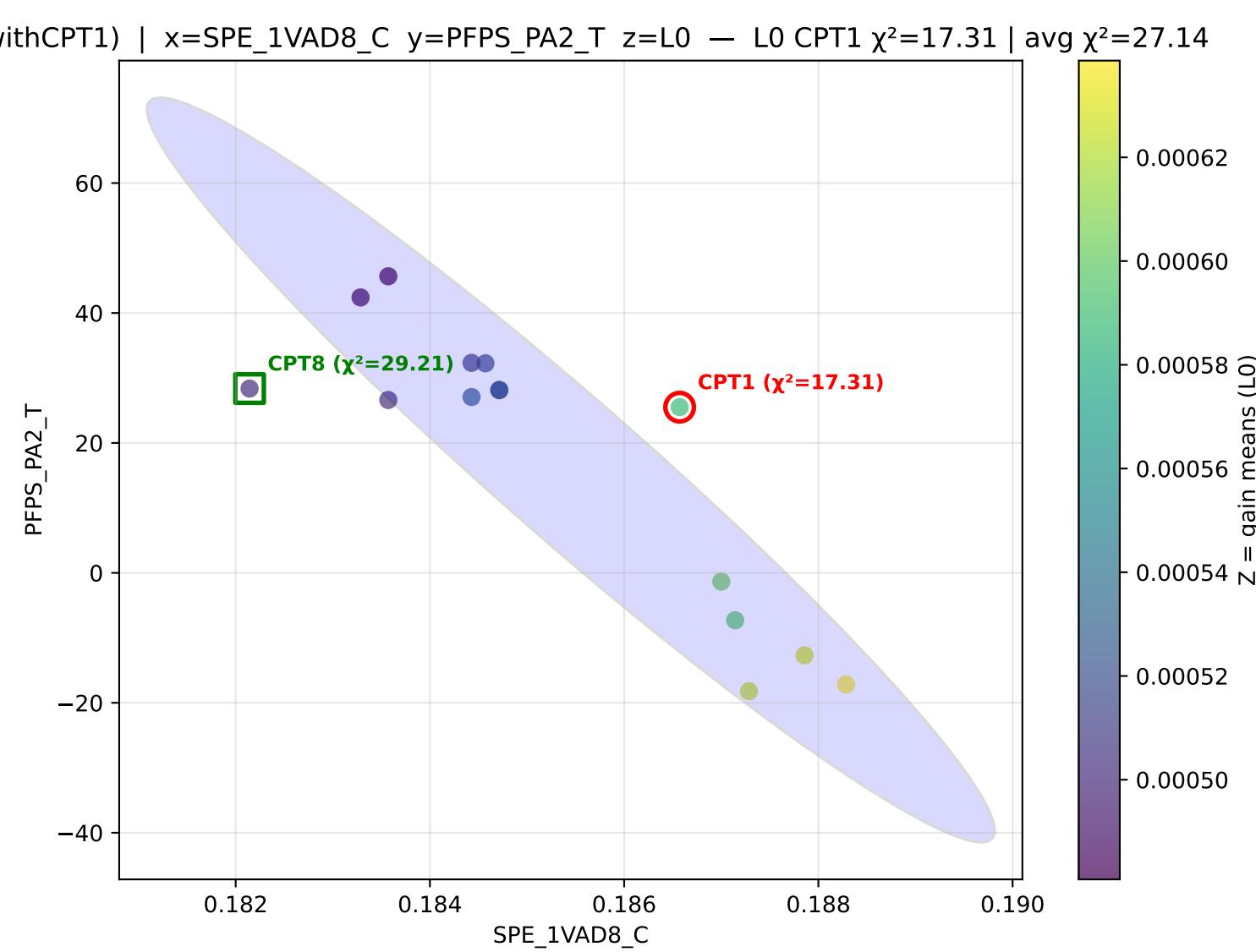


withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA2\_T z=H2 — H2 CPT1  $\chi^2=36.16$  | avg  $\chi^2=27.14$

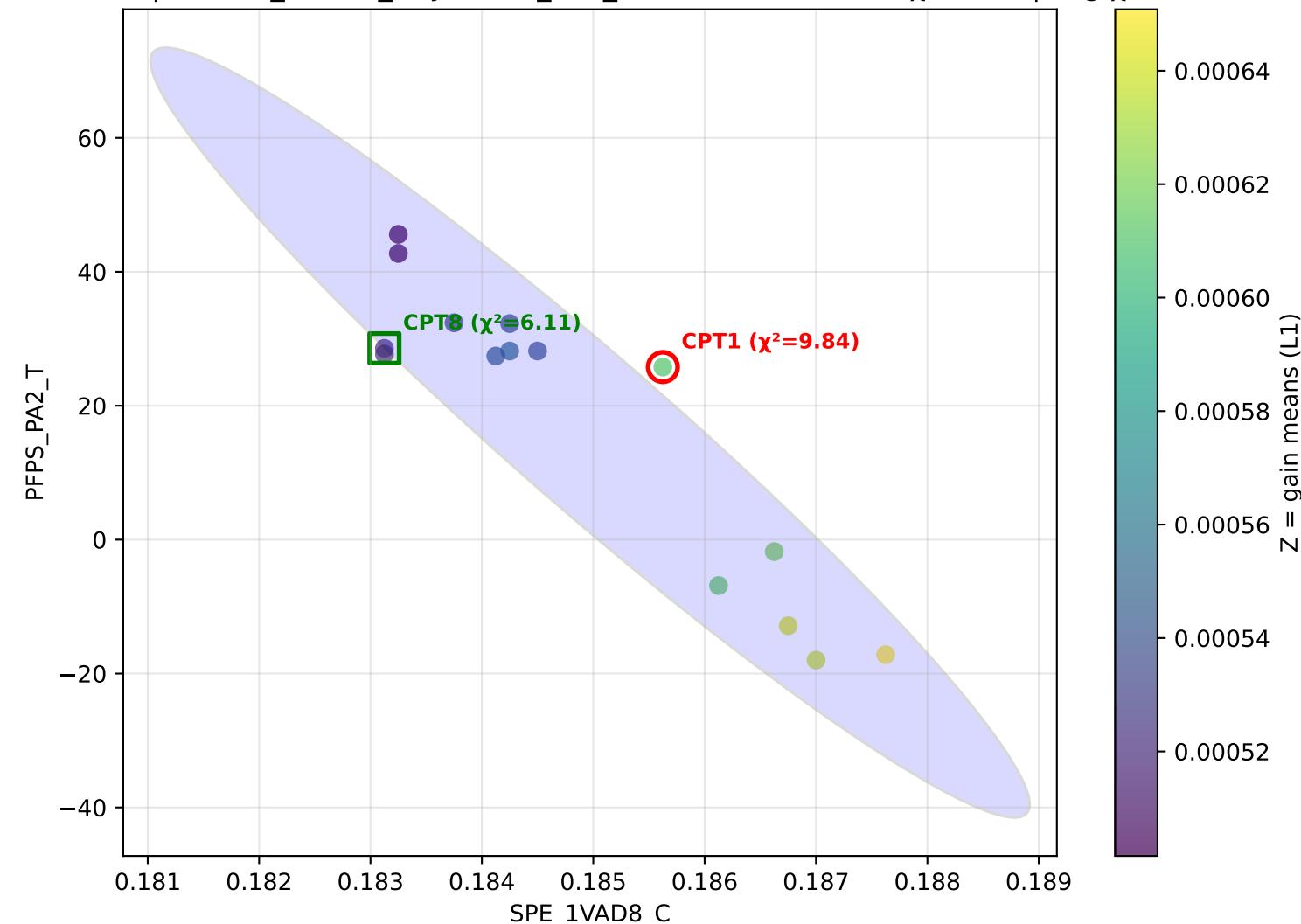


withCPT1) | x=SPE 1VAD8 C y=PFPS PA2 T z=H3 — H3 CPT1  $\chi^2=22.56$  | avg  $\chi^2=27.14$

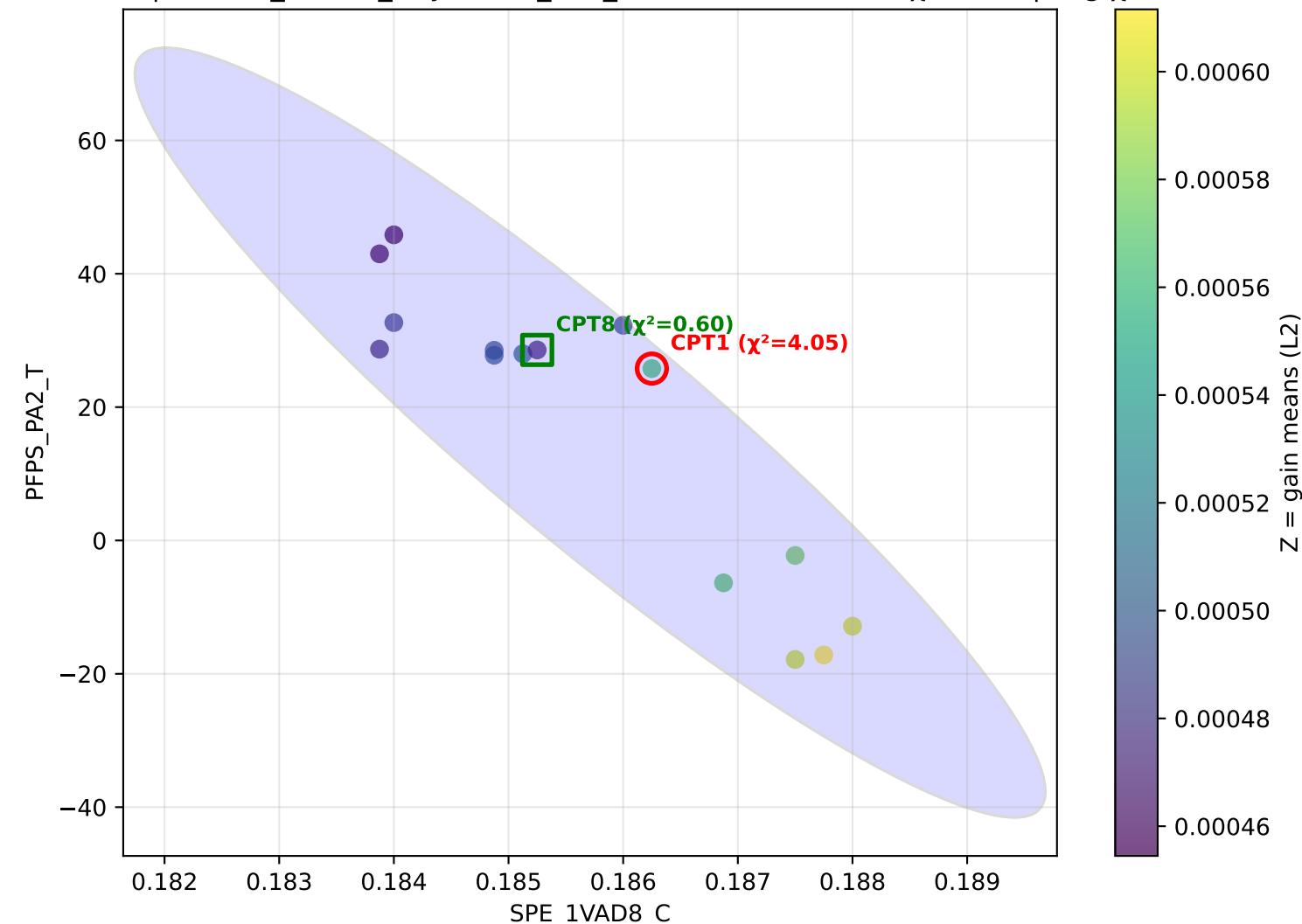




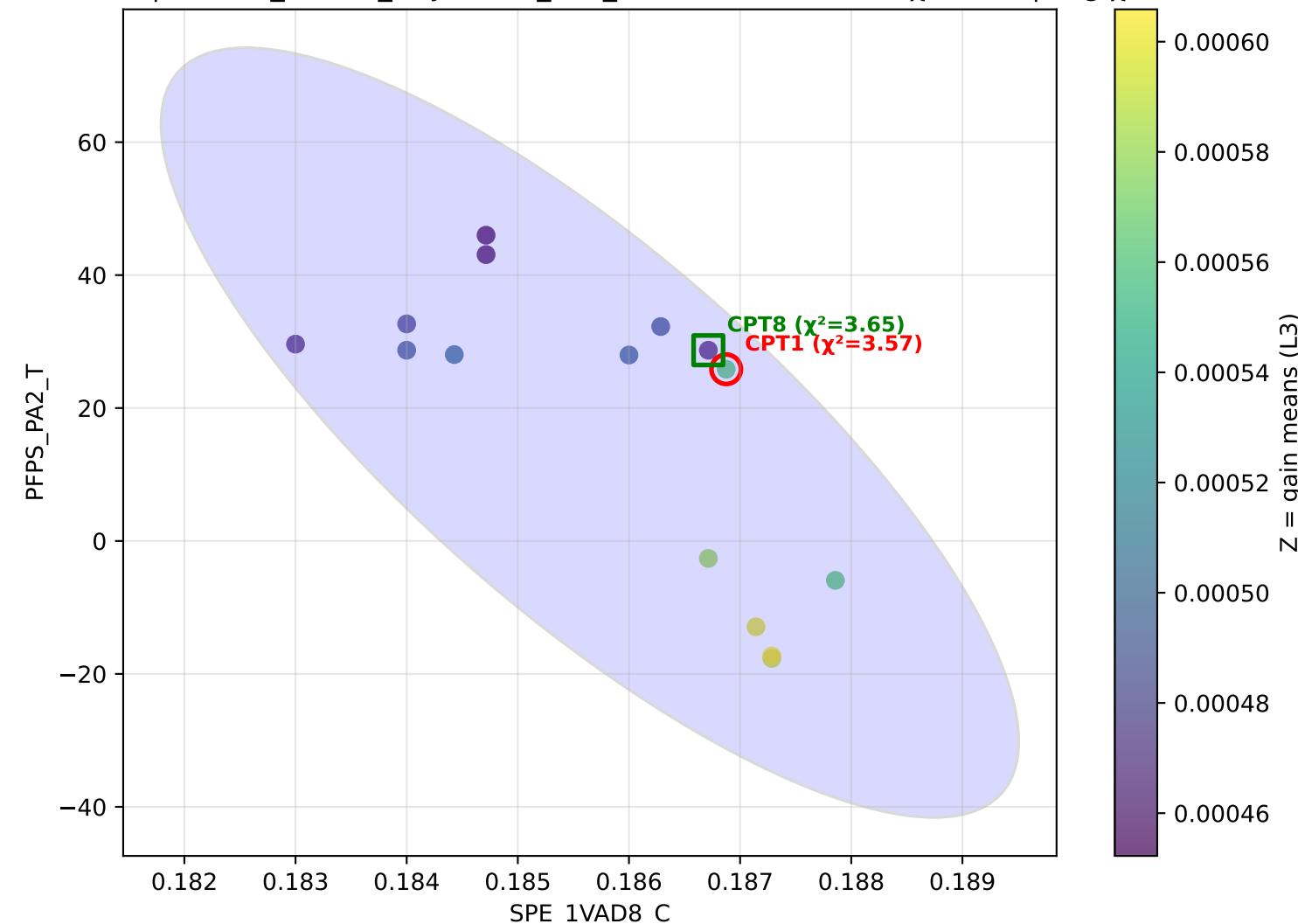
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA2\_T z=L1 — L1 CPT1  $\chi^2=9.84$  | avg  $\chi^2=27.14$

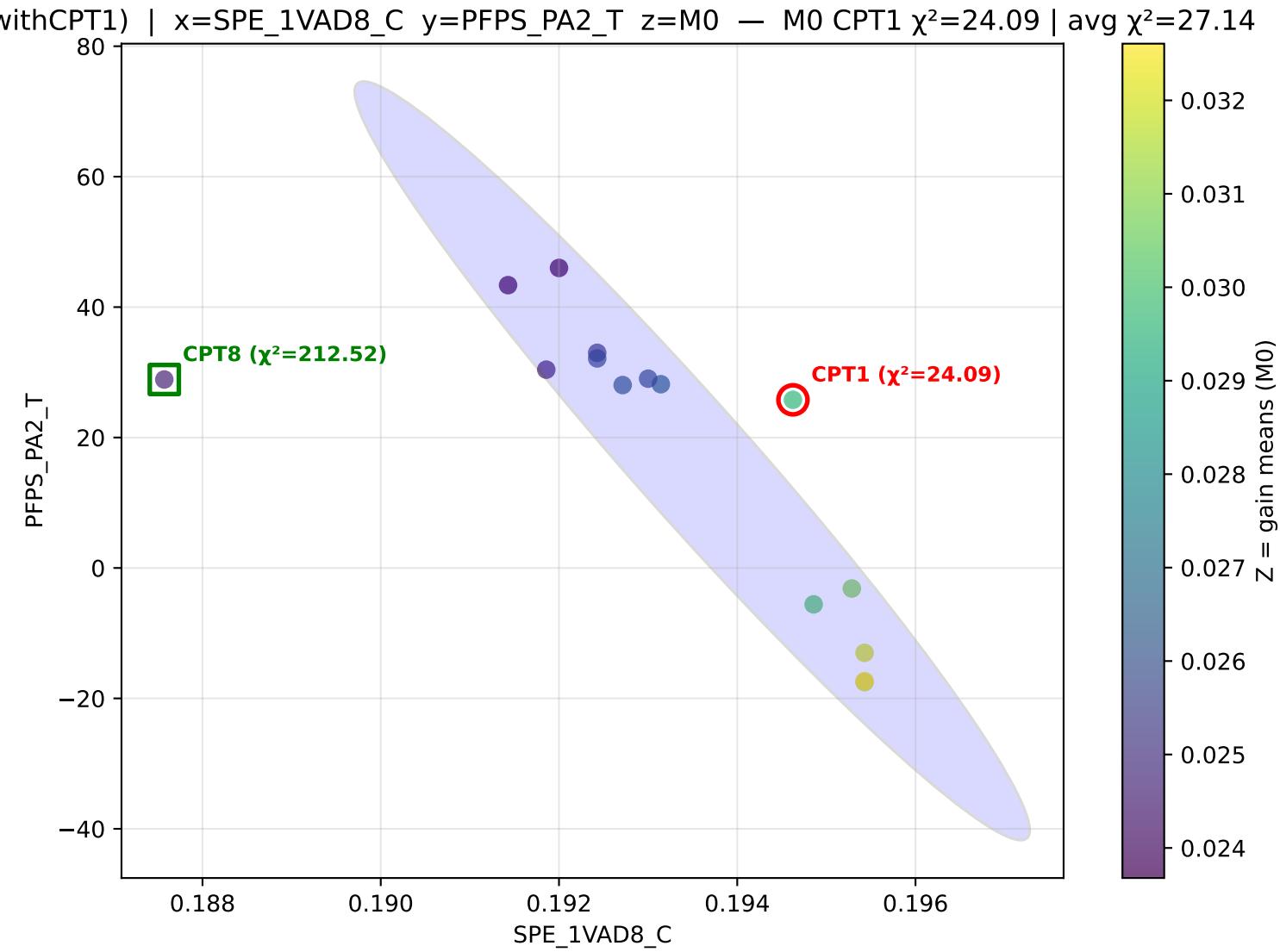


withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA2\_T z=L2 — L2 CPT1  $\chi^2=4.05$  | avg  $\chi^2=27.14$

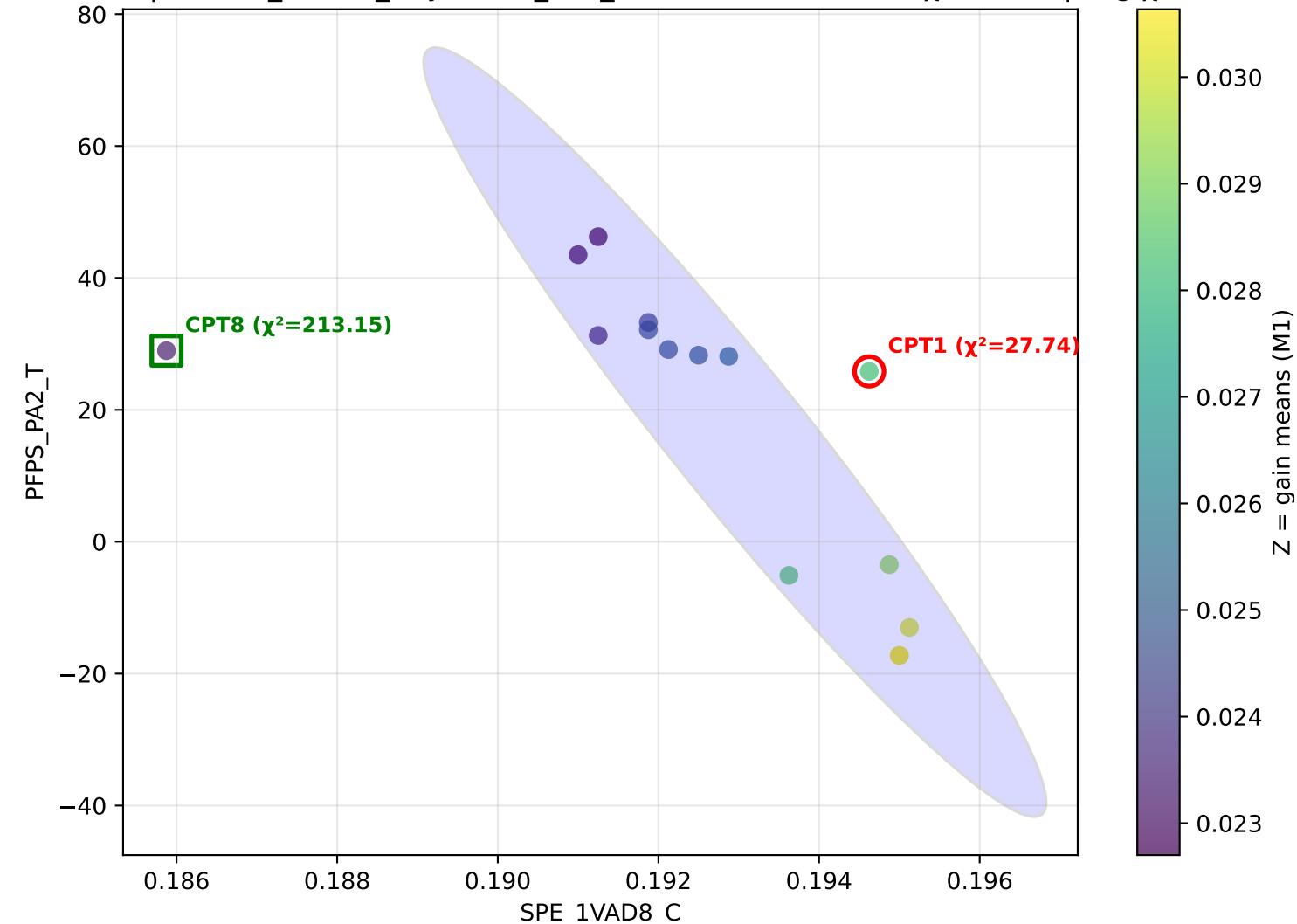


withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA2\_T z=L3 — L3 CPT1  $\chi^2=3.57$  | avg  $\chi^2=27.14$

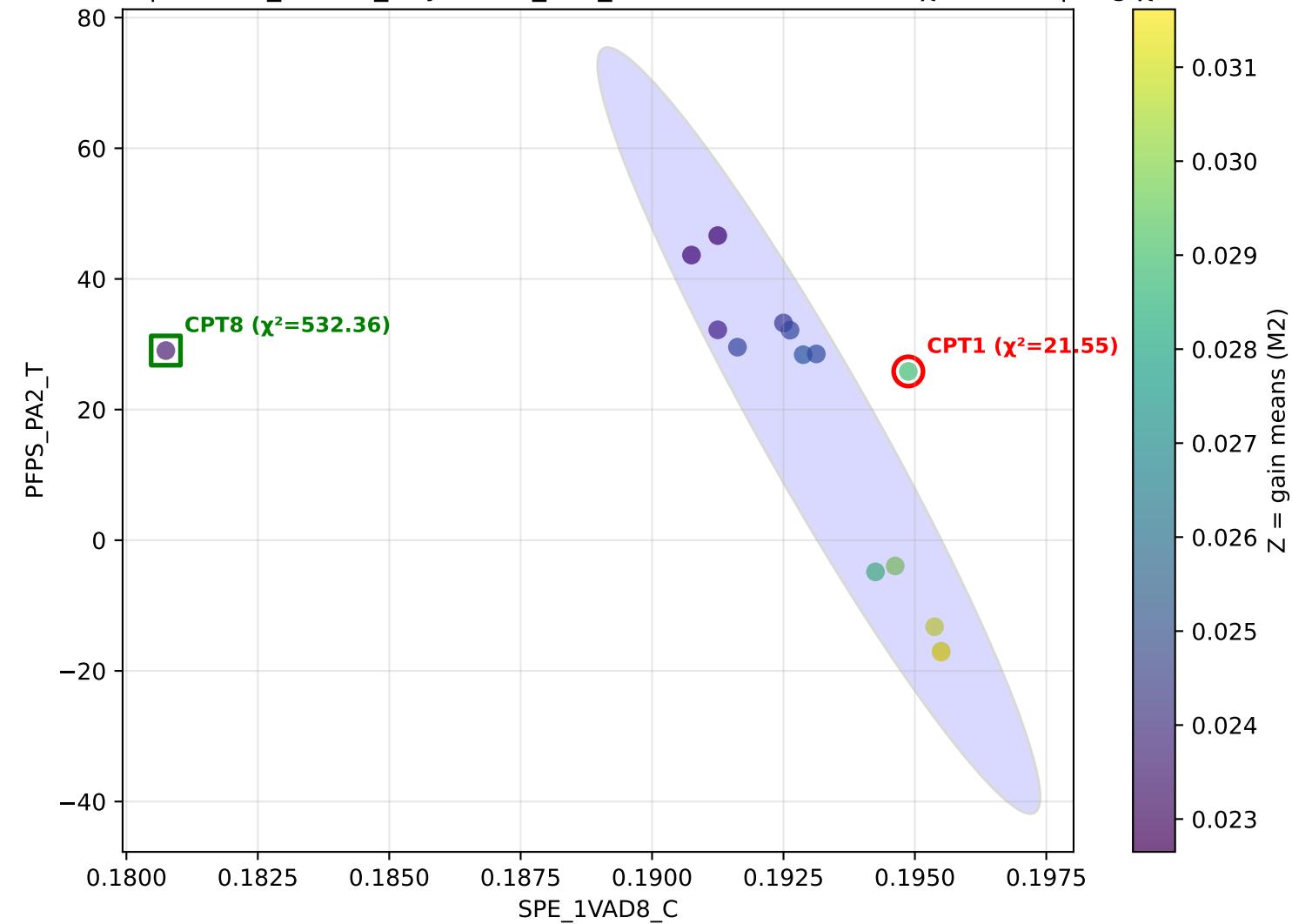




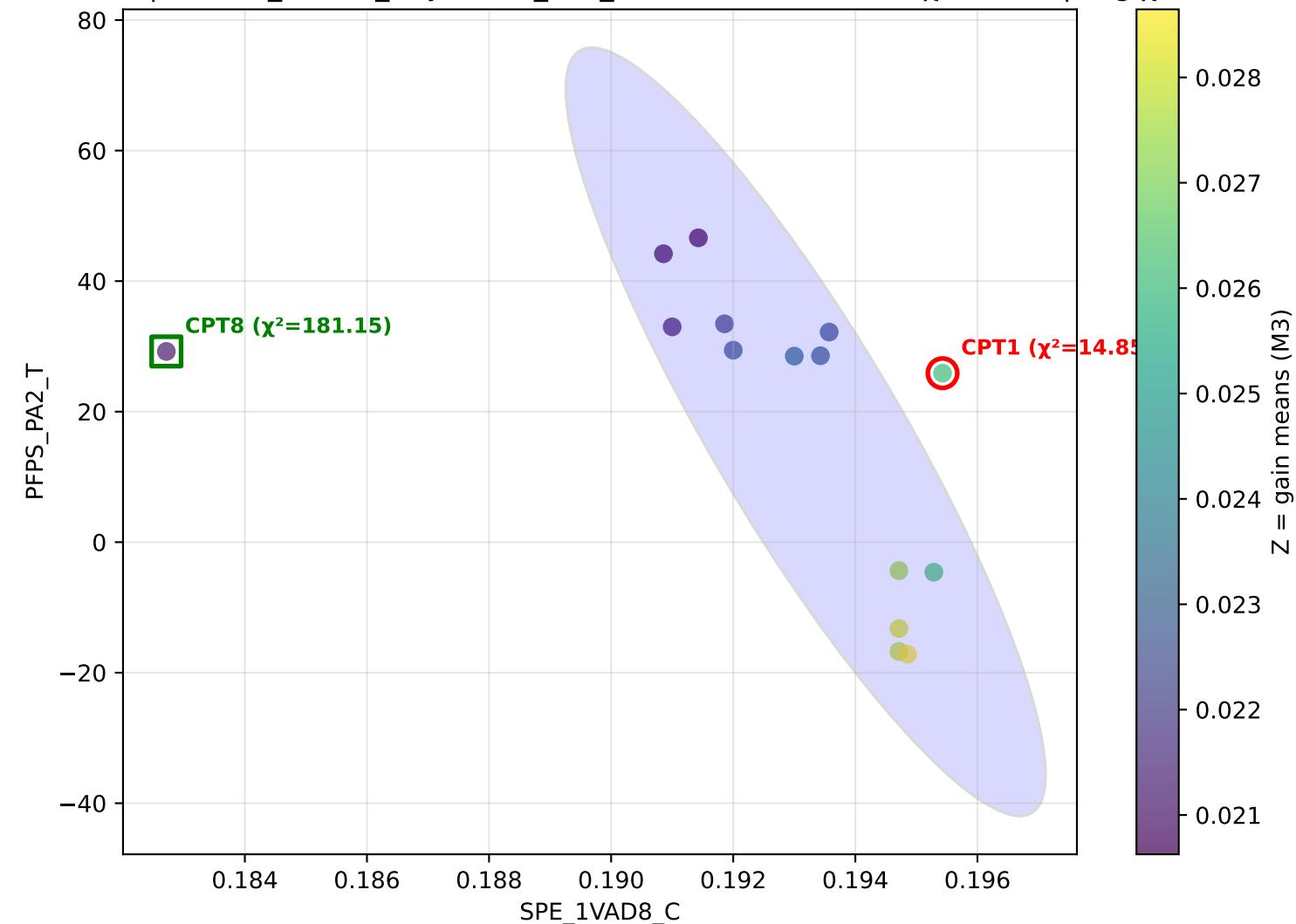
withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_PA2\_T}$   $z=\text{M1}$  — M1 CPT1  $\chi^2=27.74$  | avg  $\chi^2=27.14$



withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA2\_T z=M2 — M2 CPT1  $\chi^2=21.55$  | avg  $\chi^2=27.14$



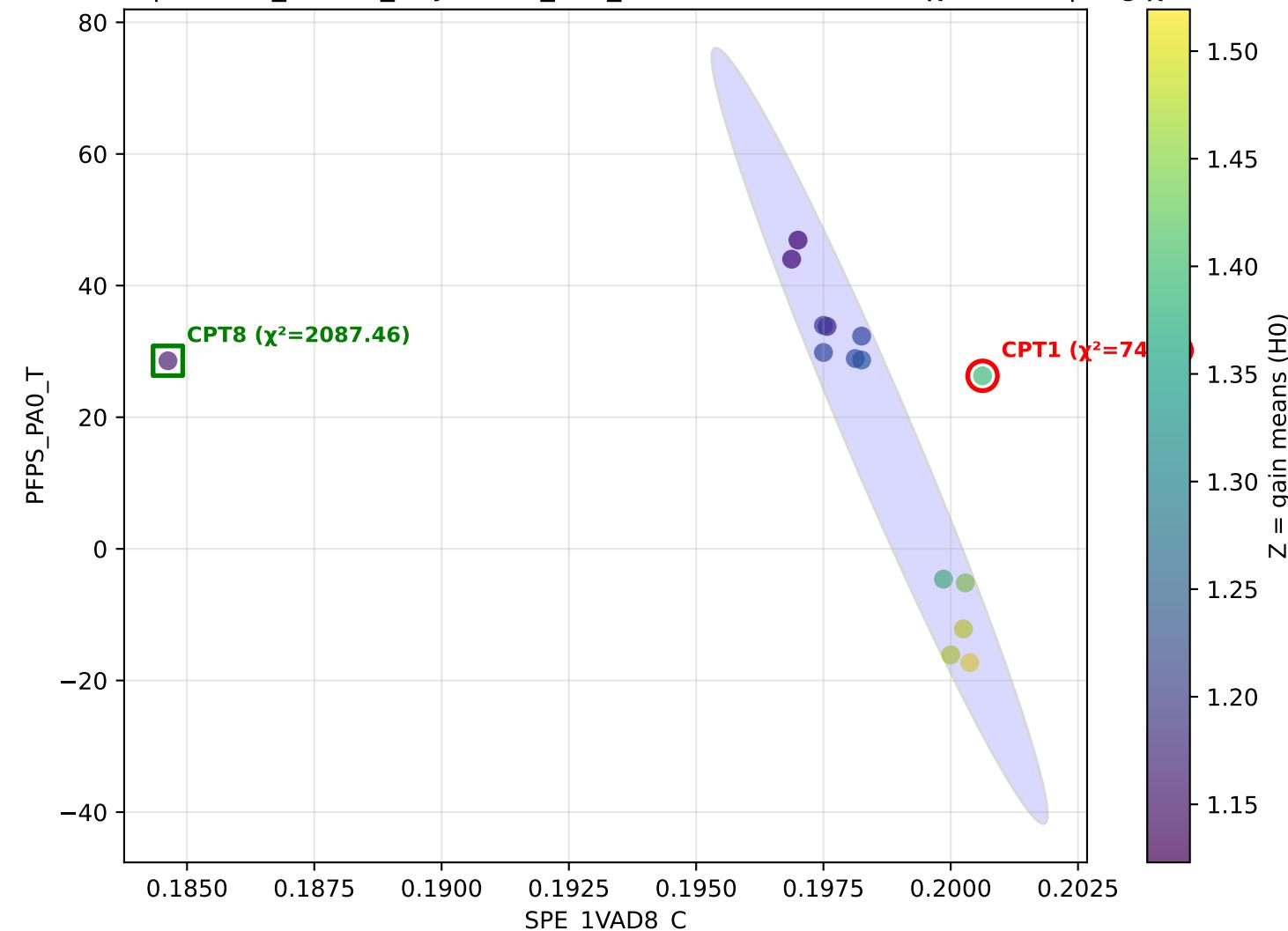
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA2\_T z=M3 — M3 CPT1  $\chi^2=14.85$  | avg  $\chi^2=27.14$



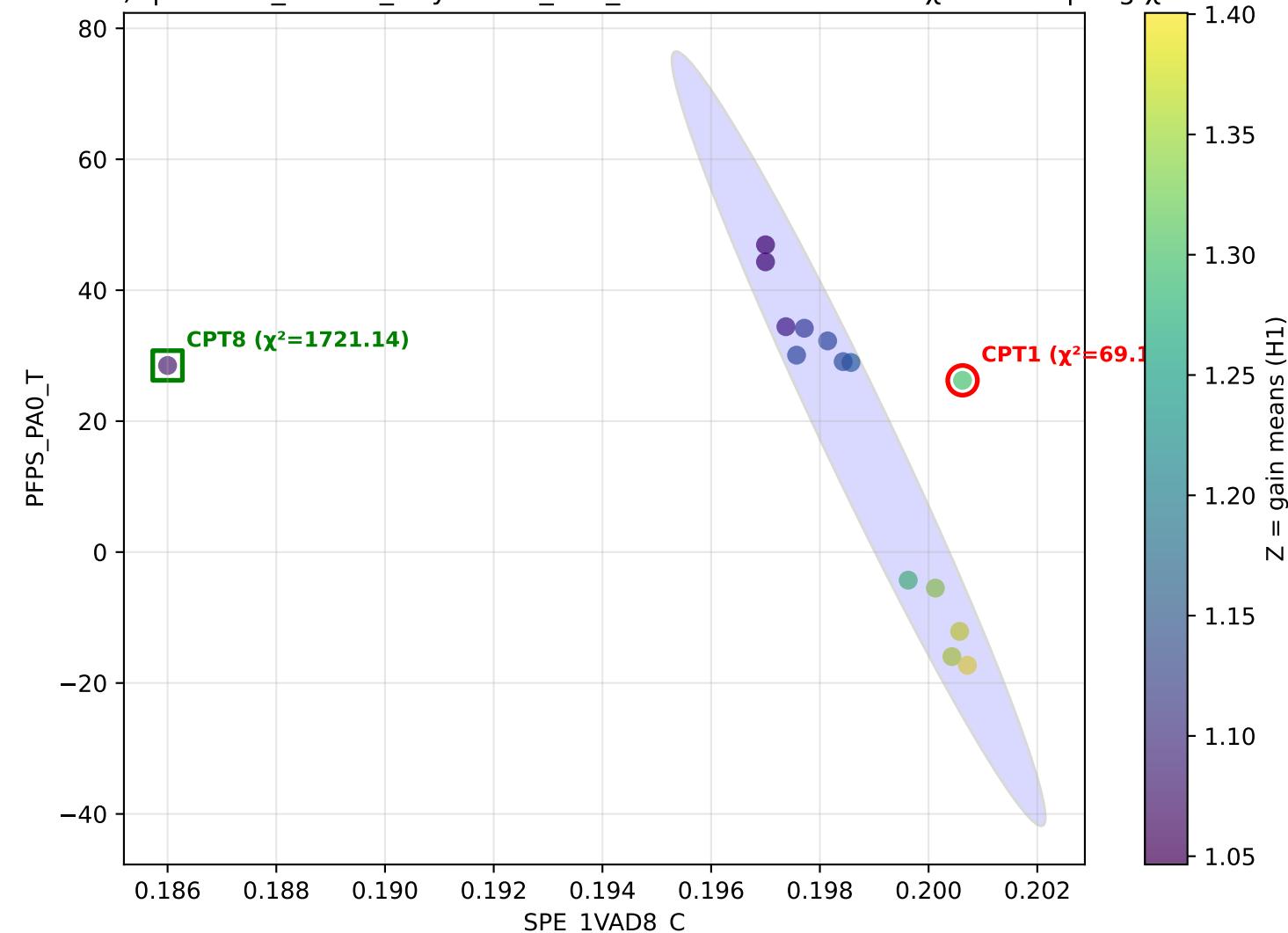
Pair: SPE\_1VAD8\_C vs PFPS\_PA0\_T

Average  $\chi^2$ (CPT1) across settings: 26.99

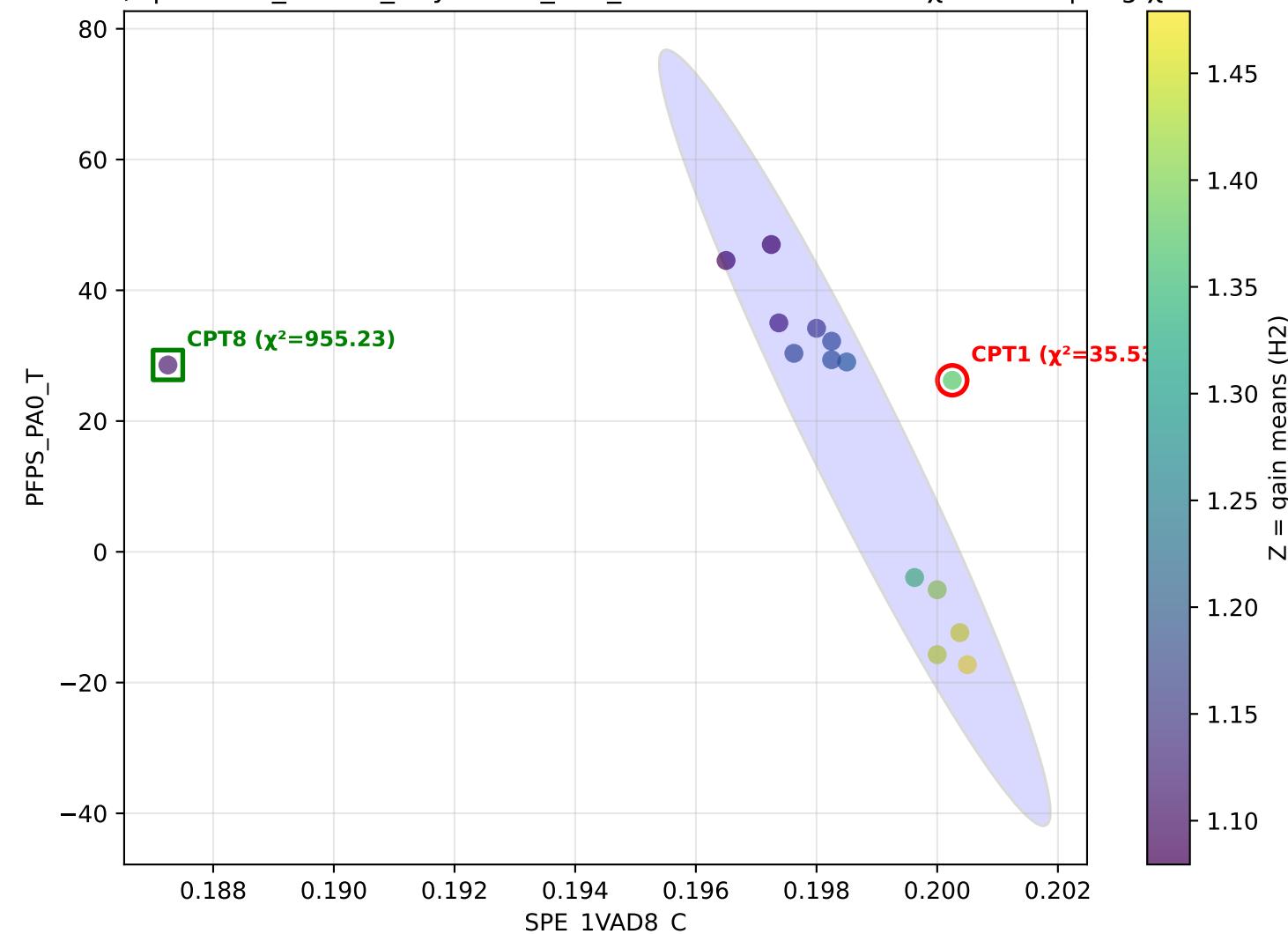
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA0\_T z=H0 — H0 CPT1  $\chi^2=74.48$  | avg  $\chi^2=26.99$



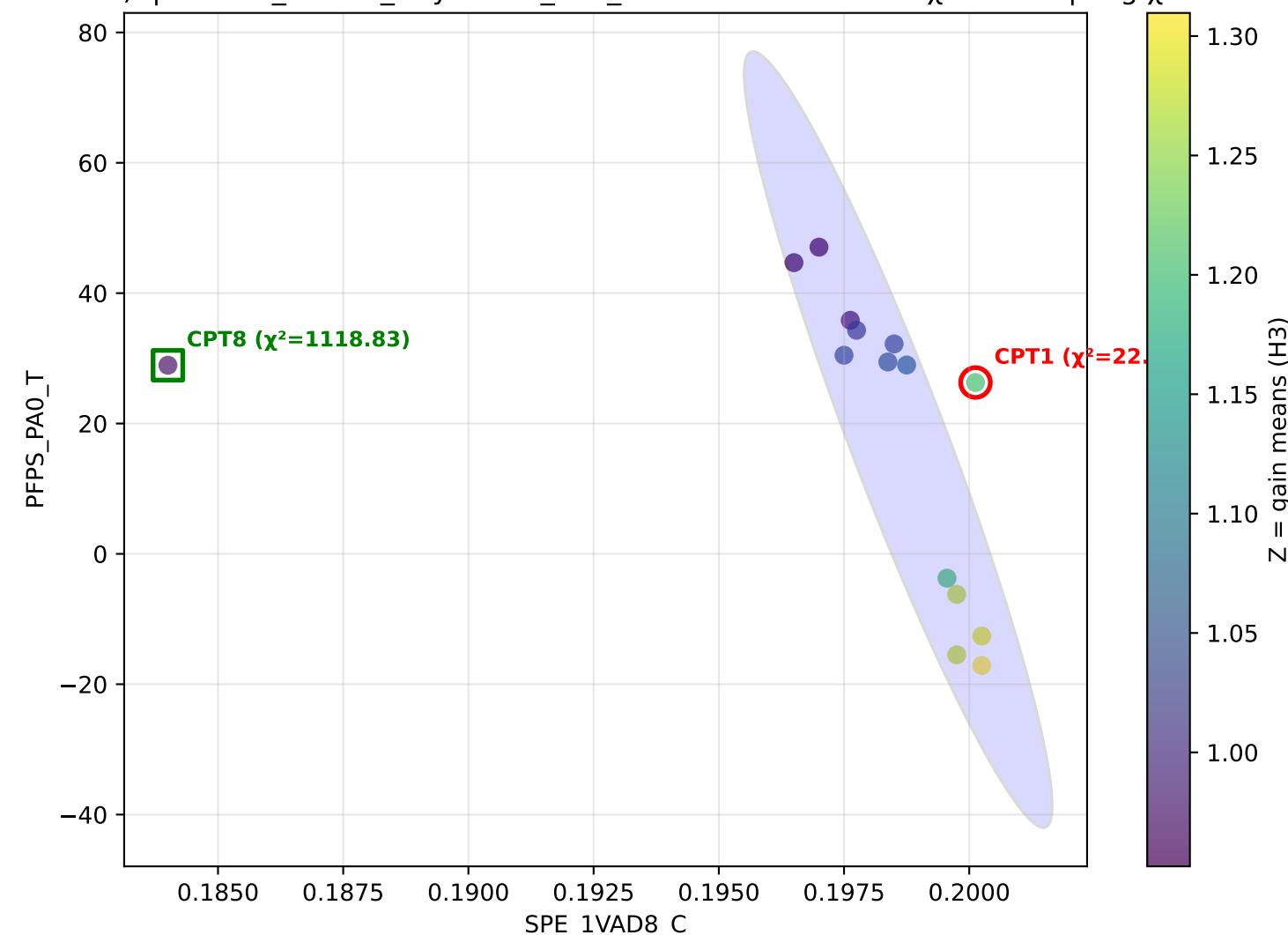
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA0\_T z=H1 — H1 CPT1  $\chi^2=69.15$  | avg  $\chi^2=26.99$

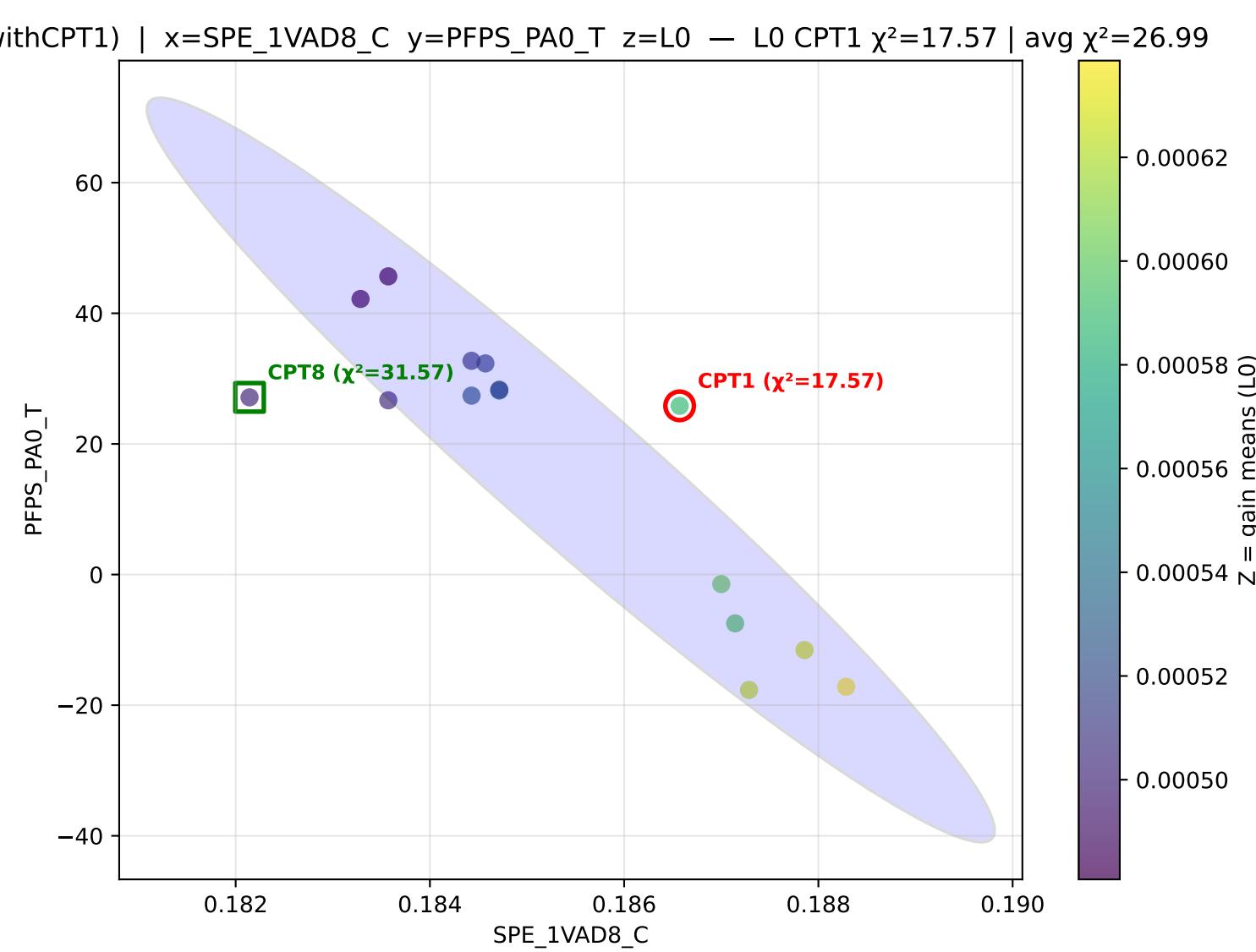


withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA0\_T z=H2 — H2 CPT1  $\chi^2=35.53$  | avg  $\chi^2=26.99$

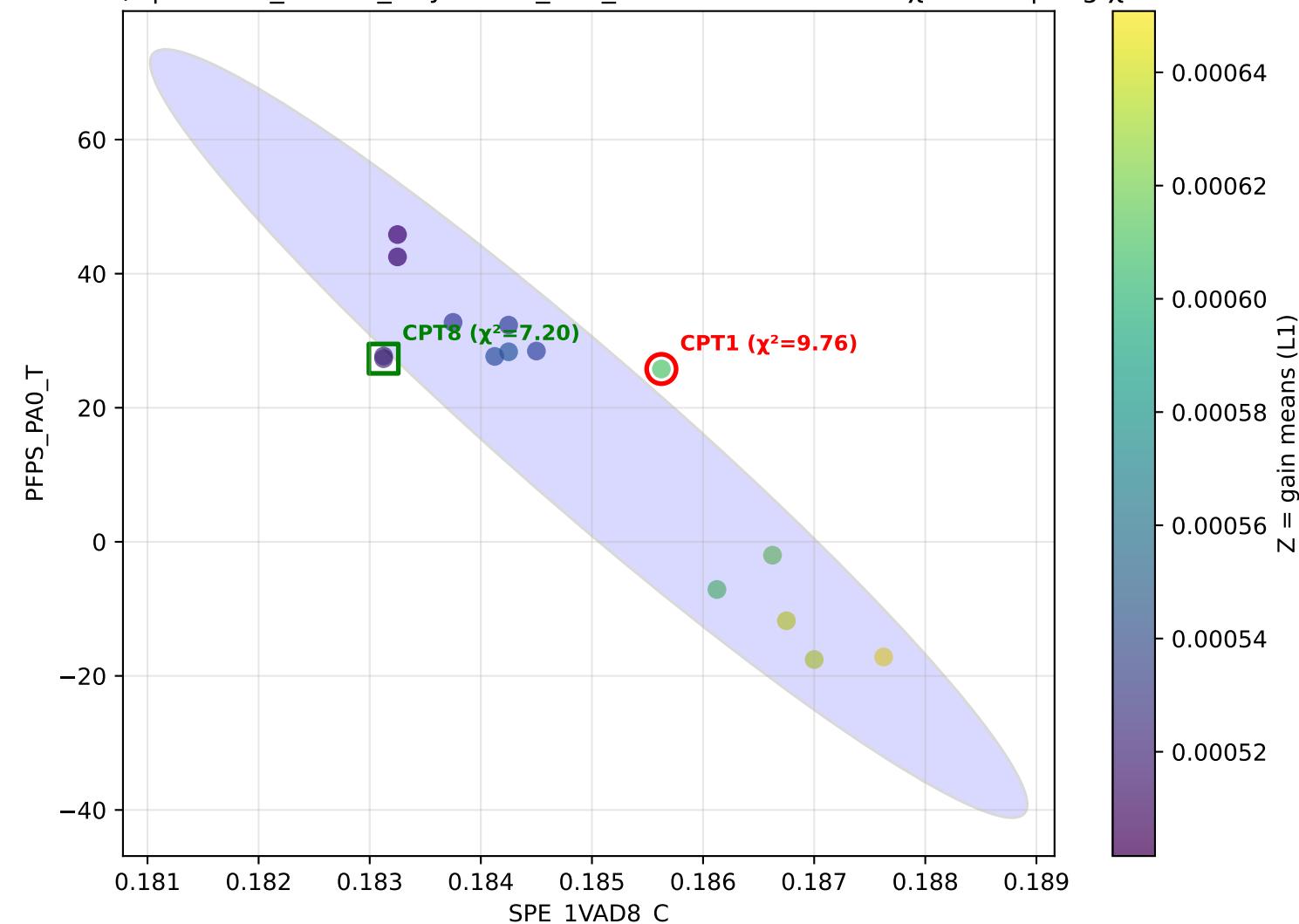


withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA0\_T z=H3 — H3 CPT1  $\chi^2=22.21$  | avg  $\chi^2=26.99$

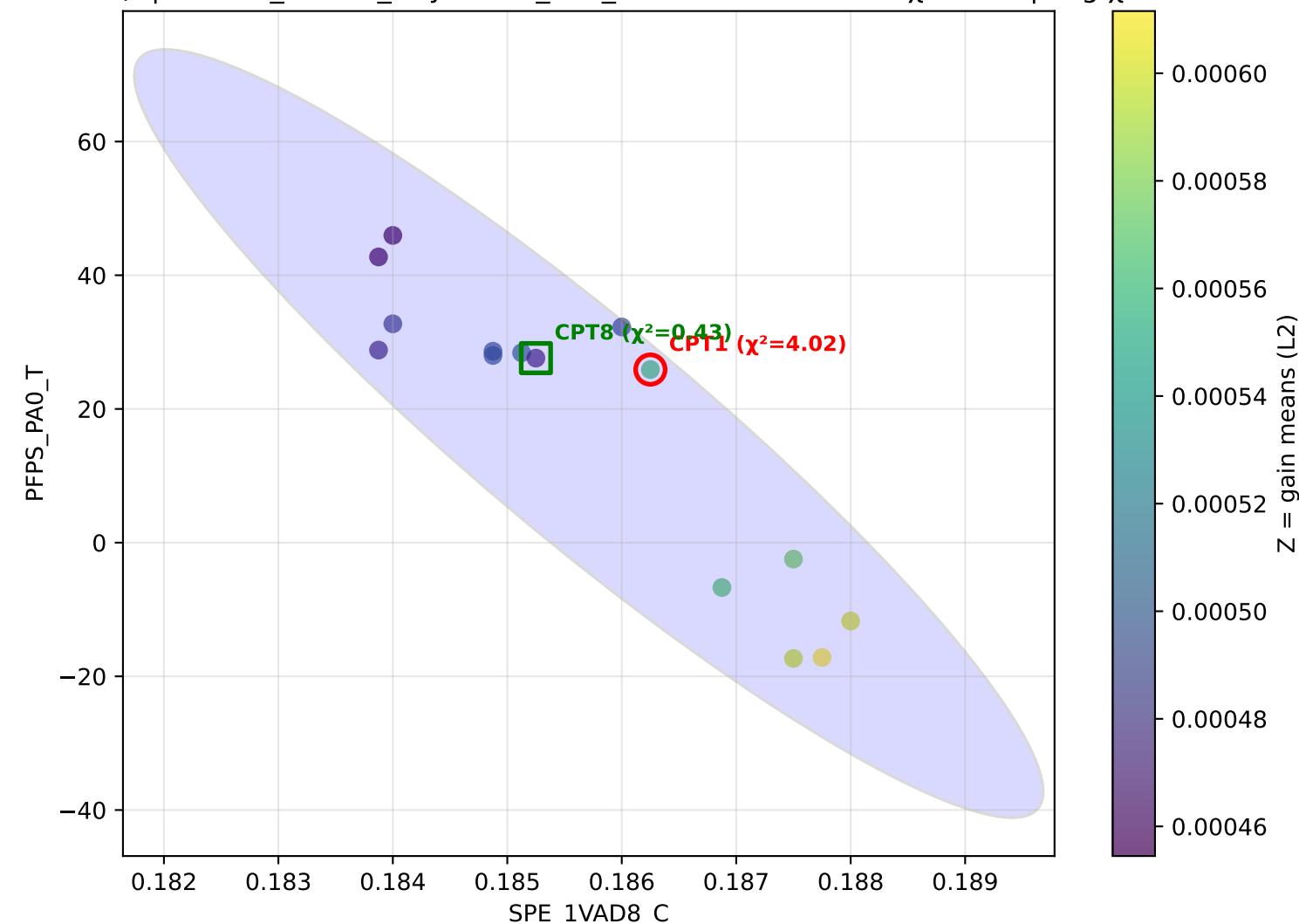


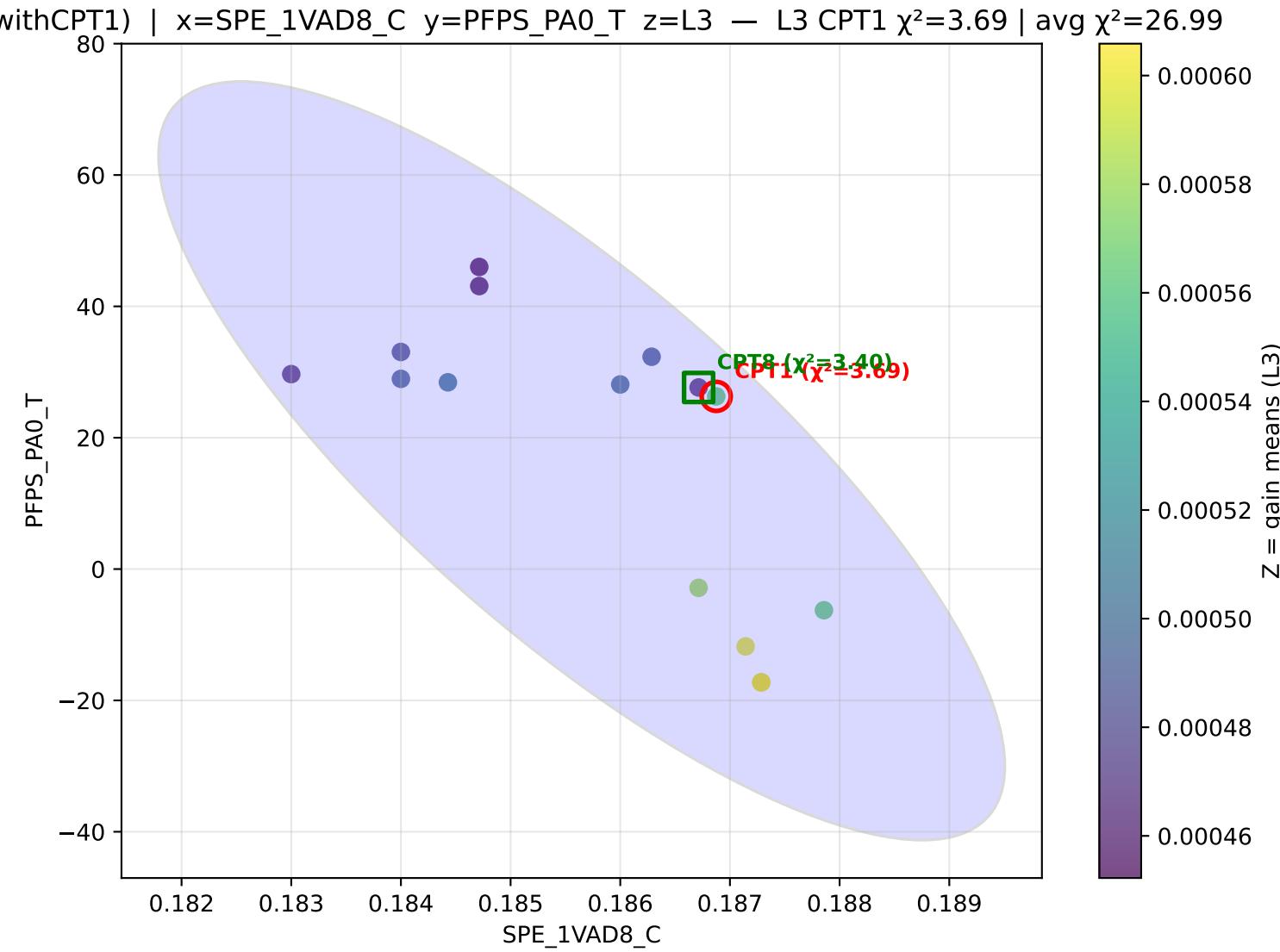


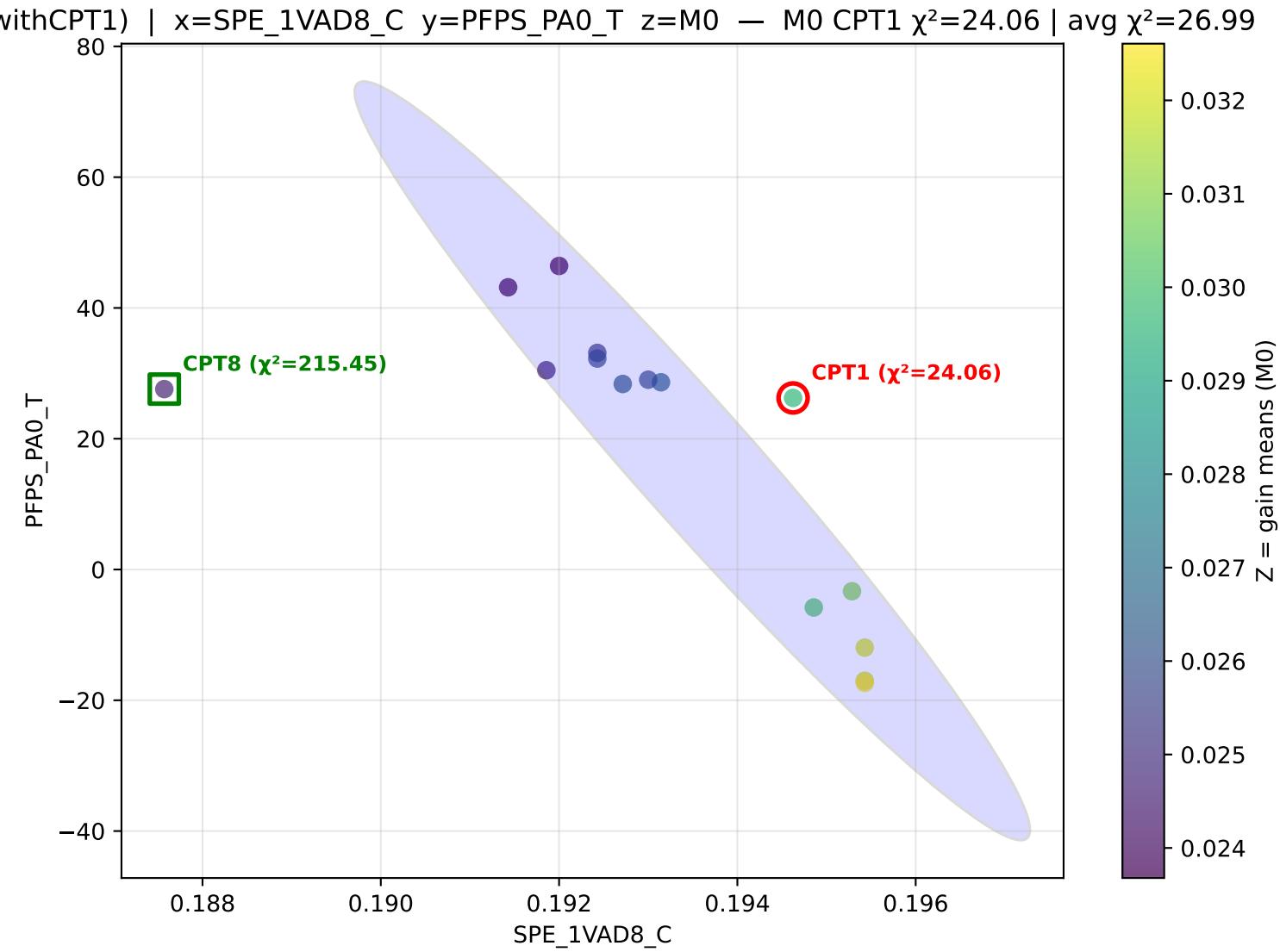
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA0\_T z=L1 — L1 CPT1  $\chi^2=9.76$  | avg  $\chi^2=26.99$



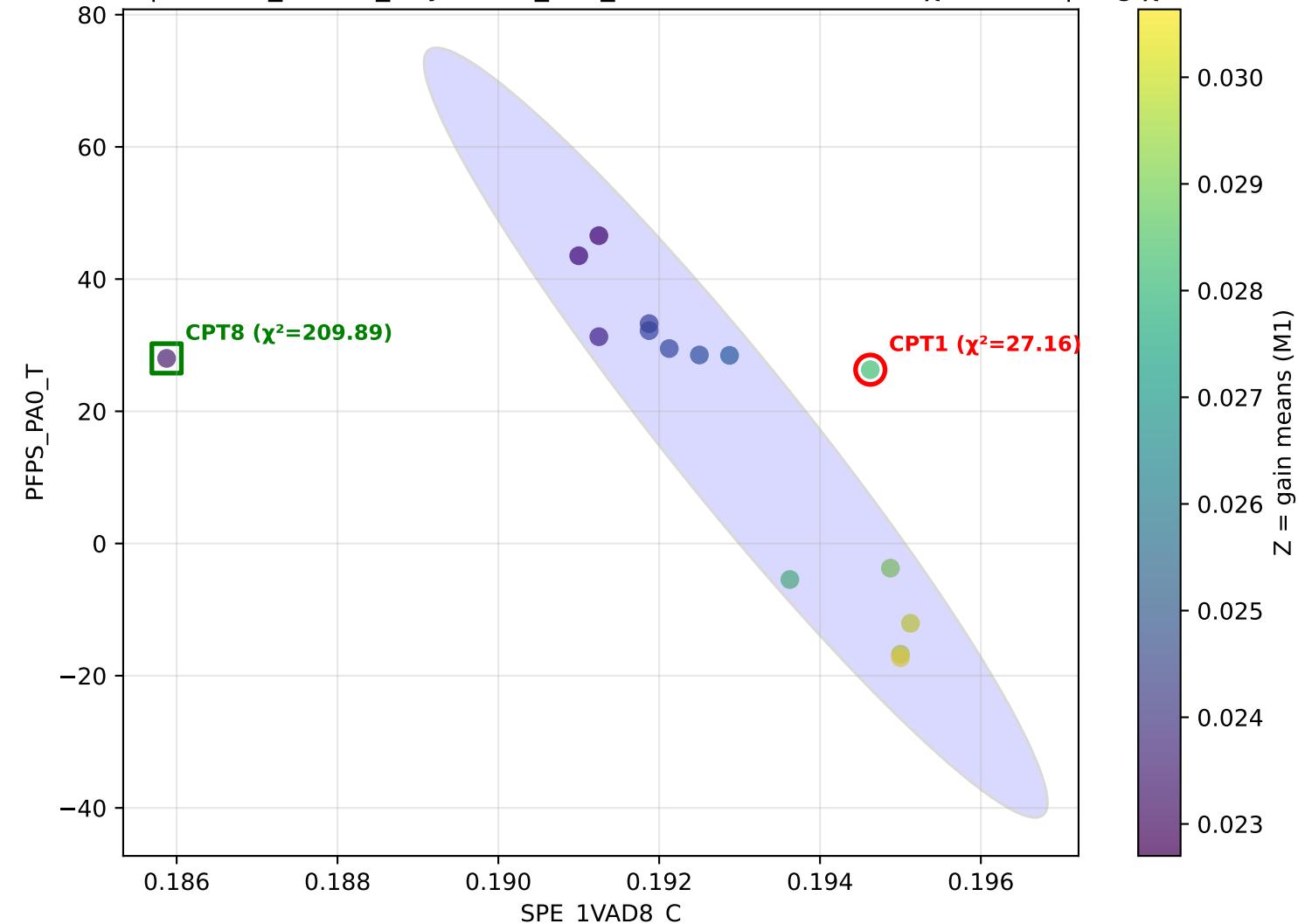
withCPT1) | x=SPE\_1VAD8\_C y=PFPS\_PA0\_T z=L2 — L2 CPT1  $\chi^2=4.02$  | avg  $\chi^2=26.99$

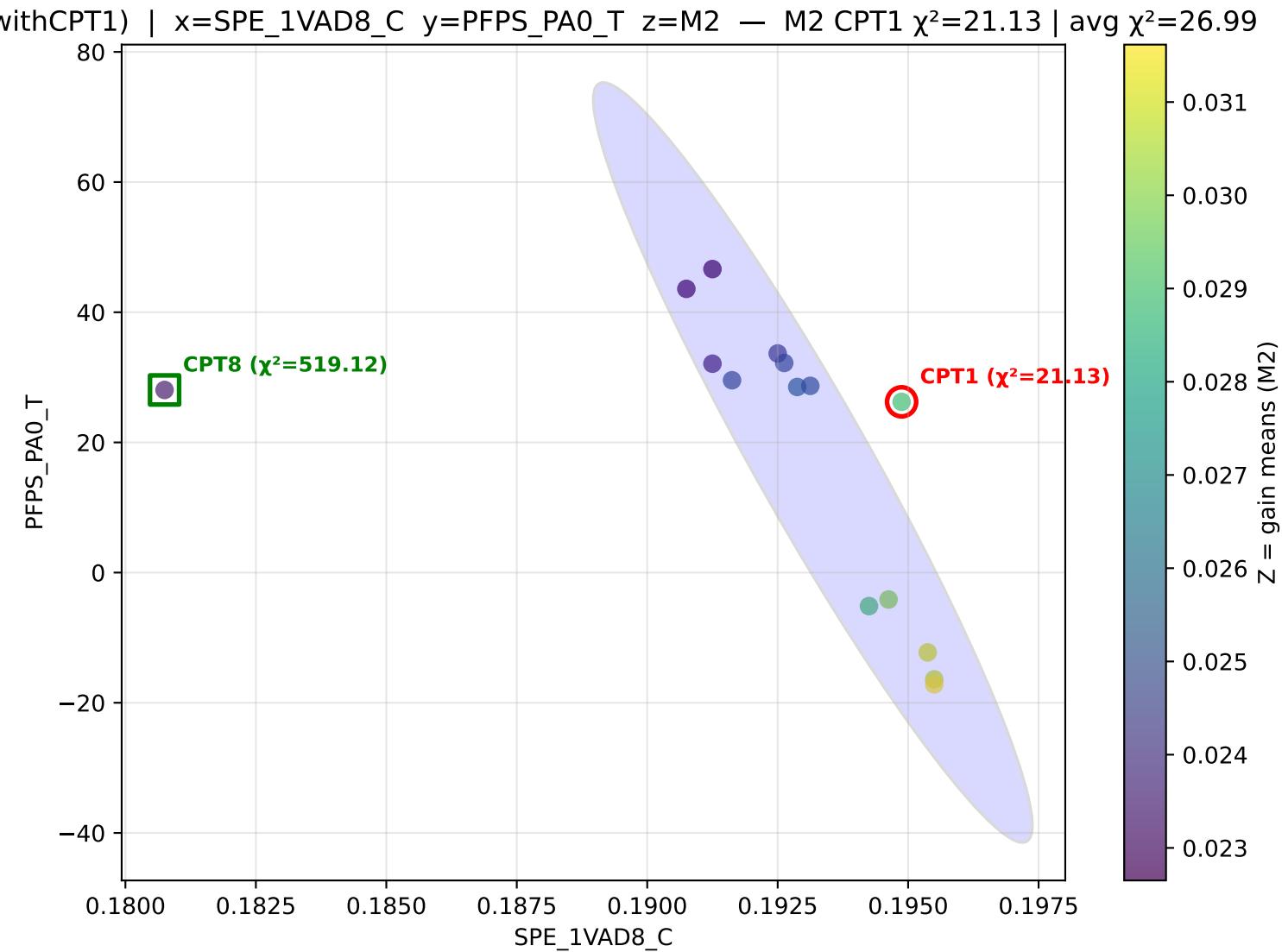


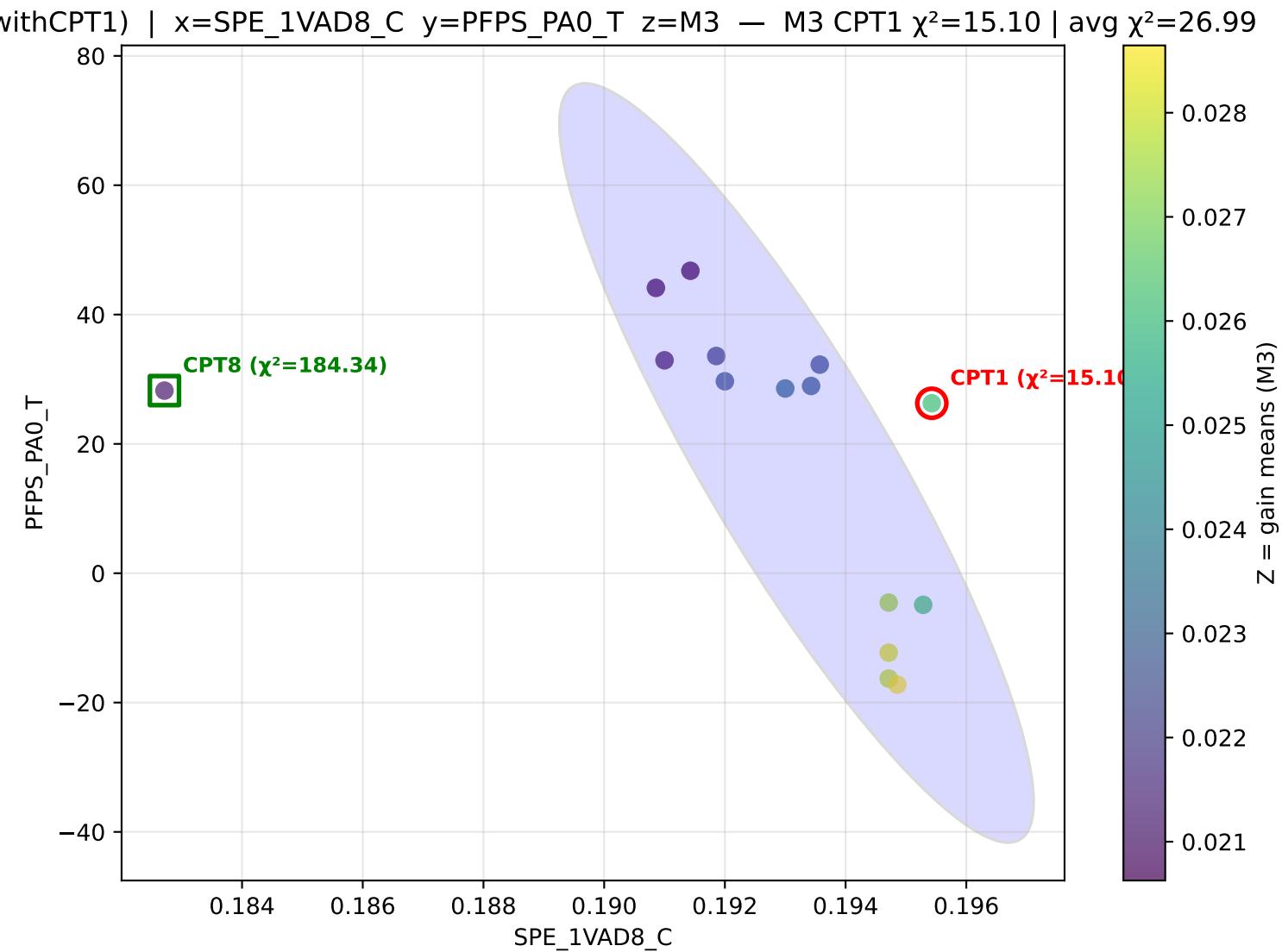




withCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_PA0\_T}$   $z=M1$  — M1 CPT1  $\chi^2=27.16$  | avg  $\chi^2=26.99$



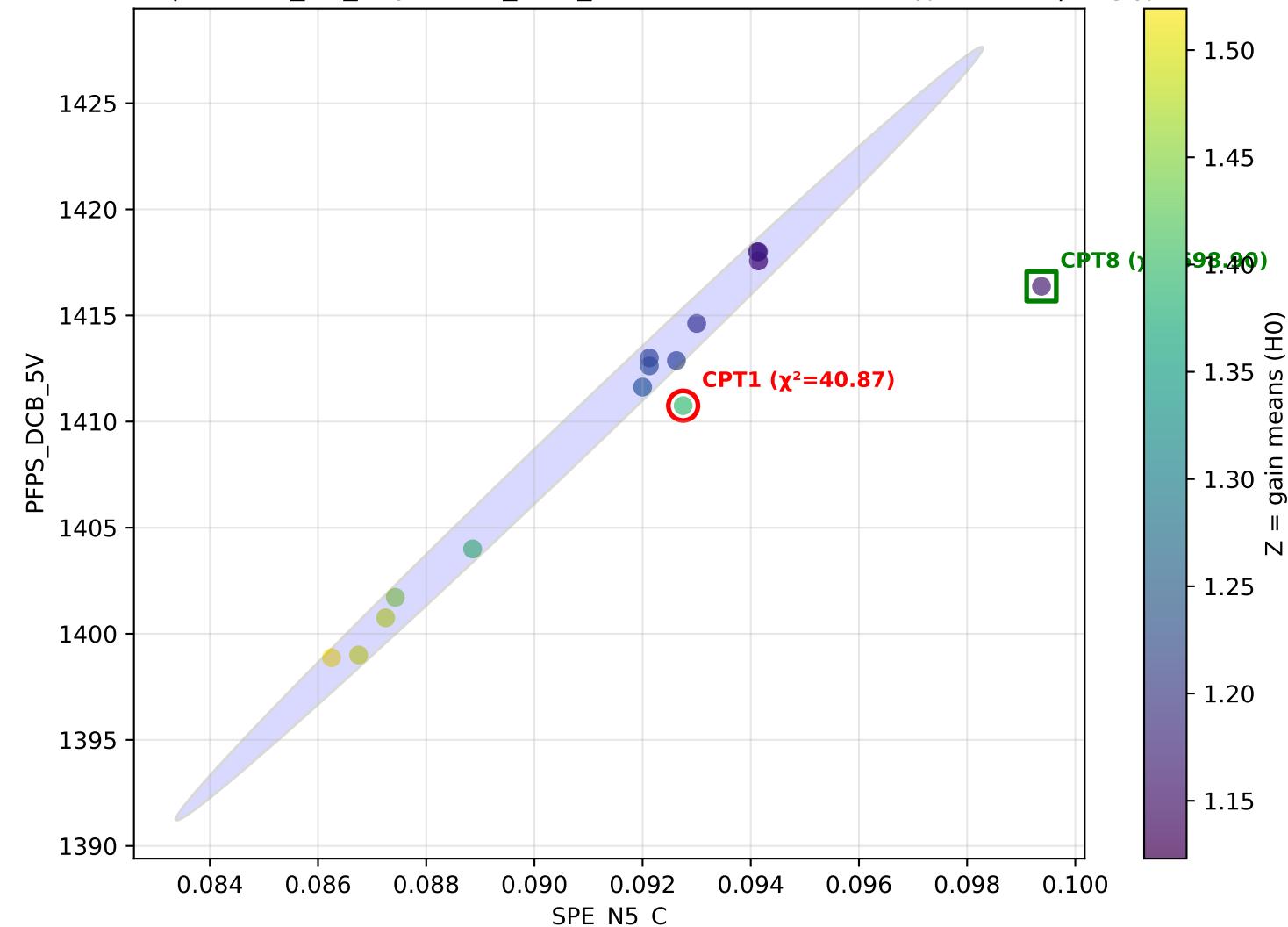




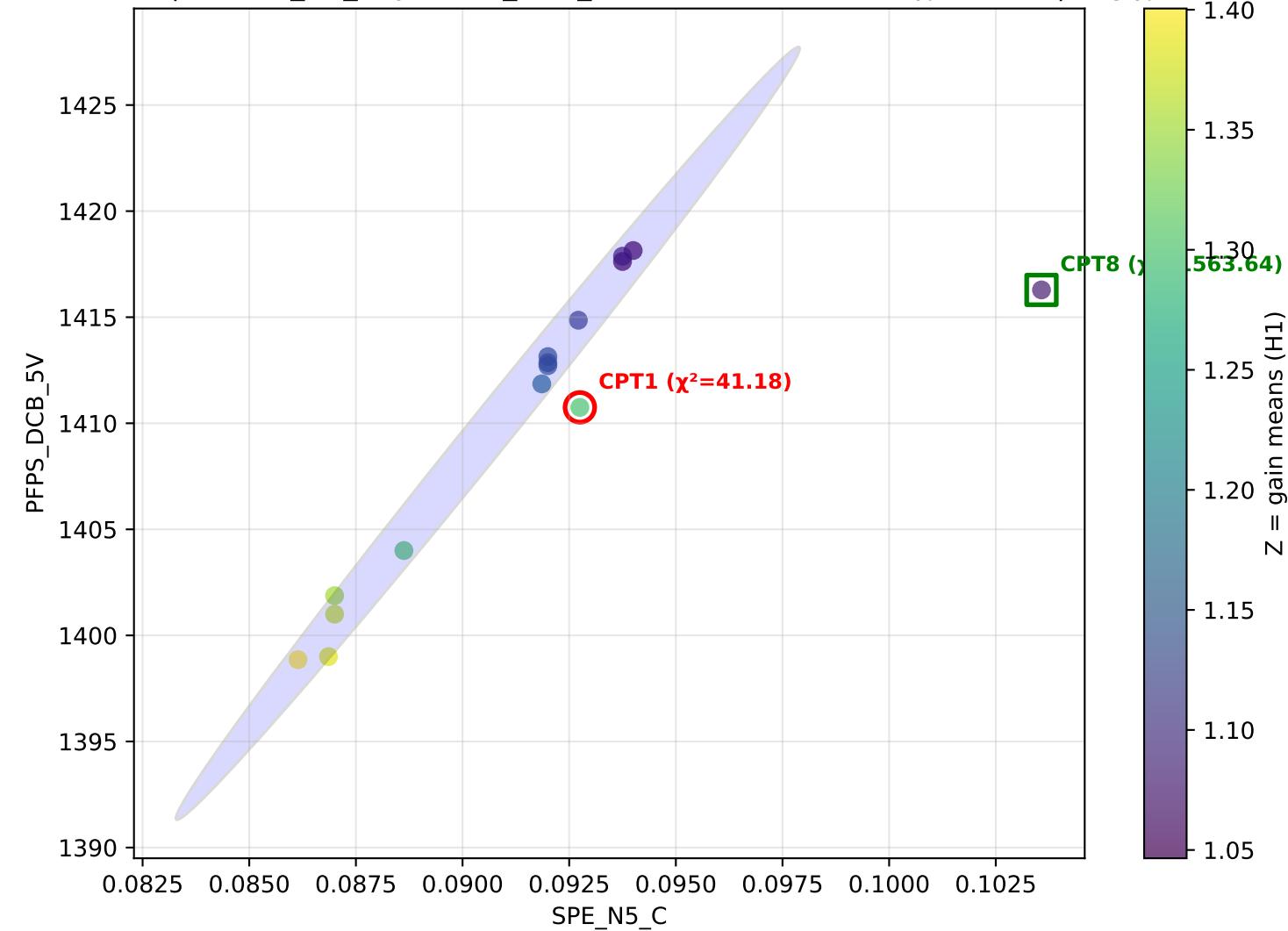
Pair: SPE\_N5\_C vs PFPS\_DCB\_5V

Average  $\chi^2$ (CPT1) across settings: 23.68

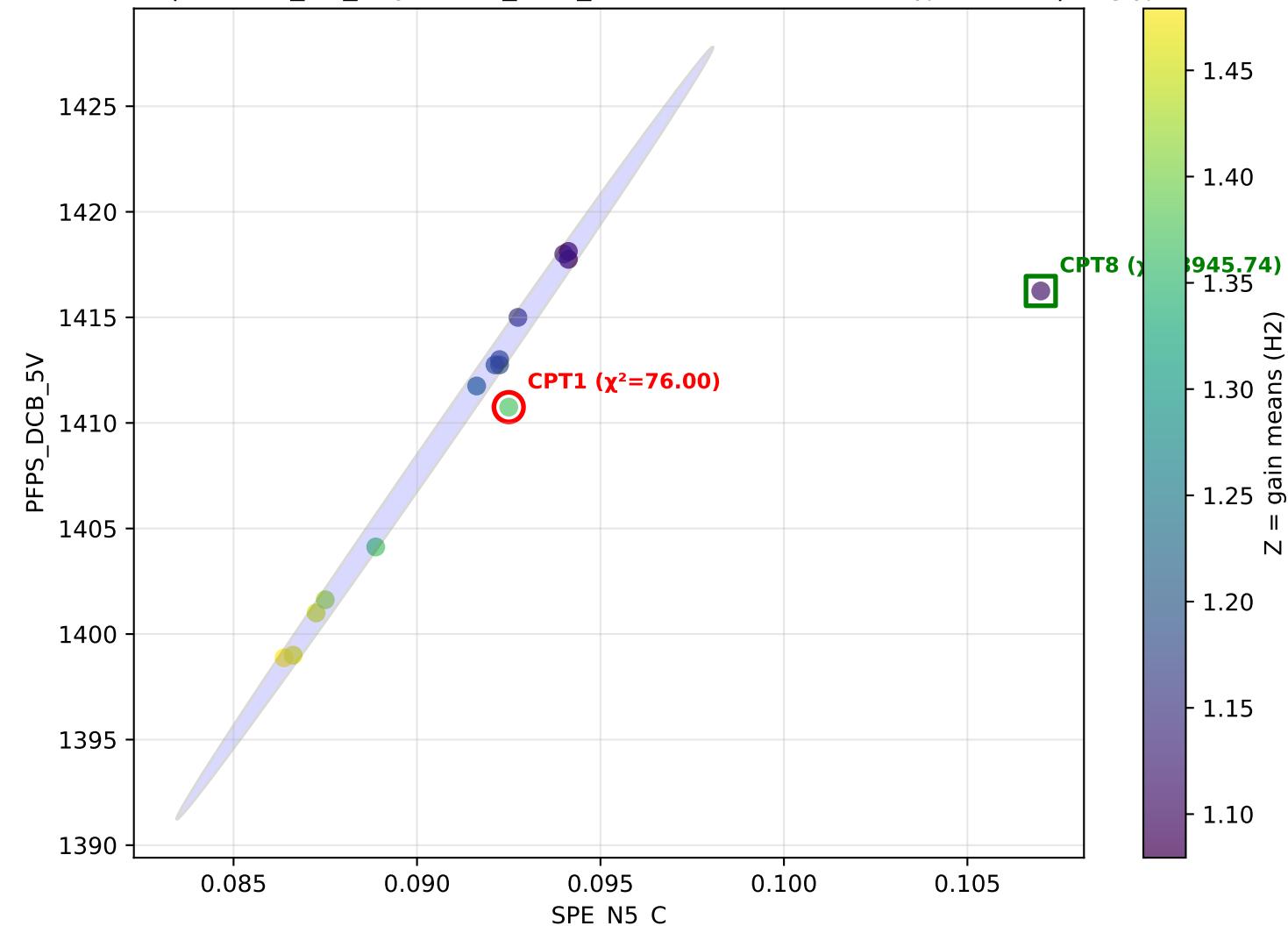
(withCPT1) | x=SPE\_N5\_C y=PFPS\_DCB\_5V z=H0 — H0 CPT1  $\chi^2=40.87$  | avg  $\chi^2=23.68$



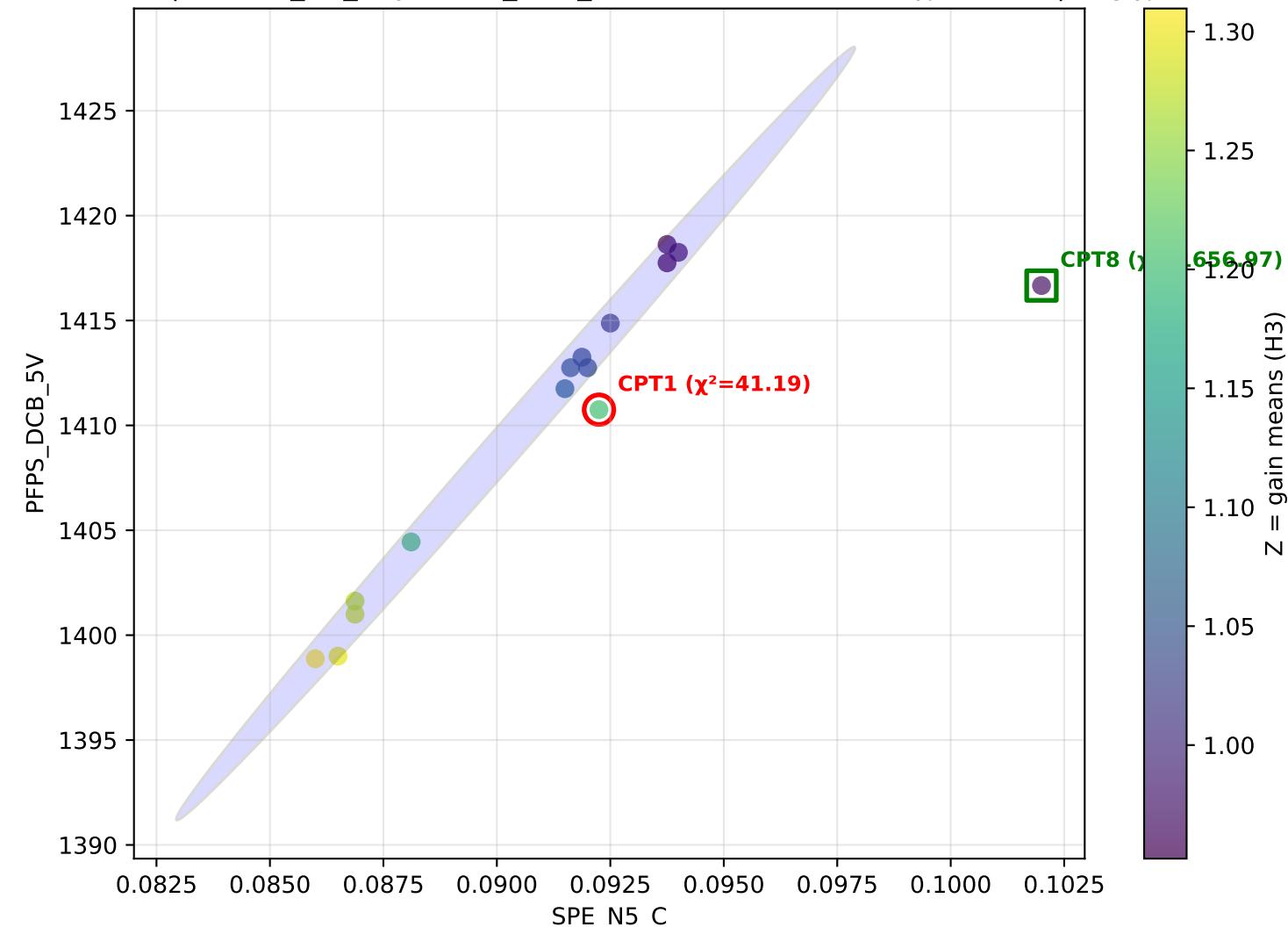
(withCPT1) | x=SPE\_N5\_C y=PFPS\_DCB\_5V z=H1 — H1 CPT1  $\chi^2=41.18$  | avg  $\chi^2=23.68$



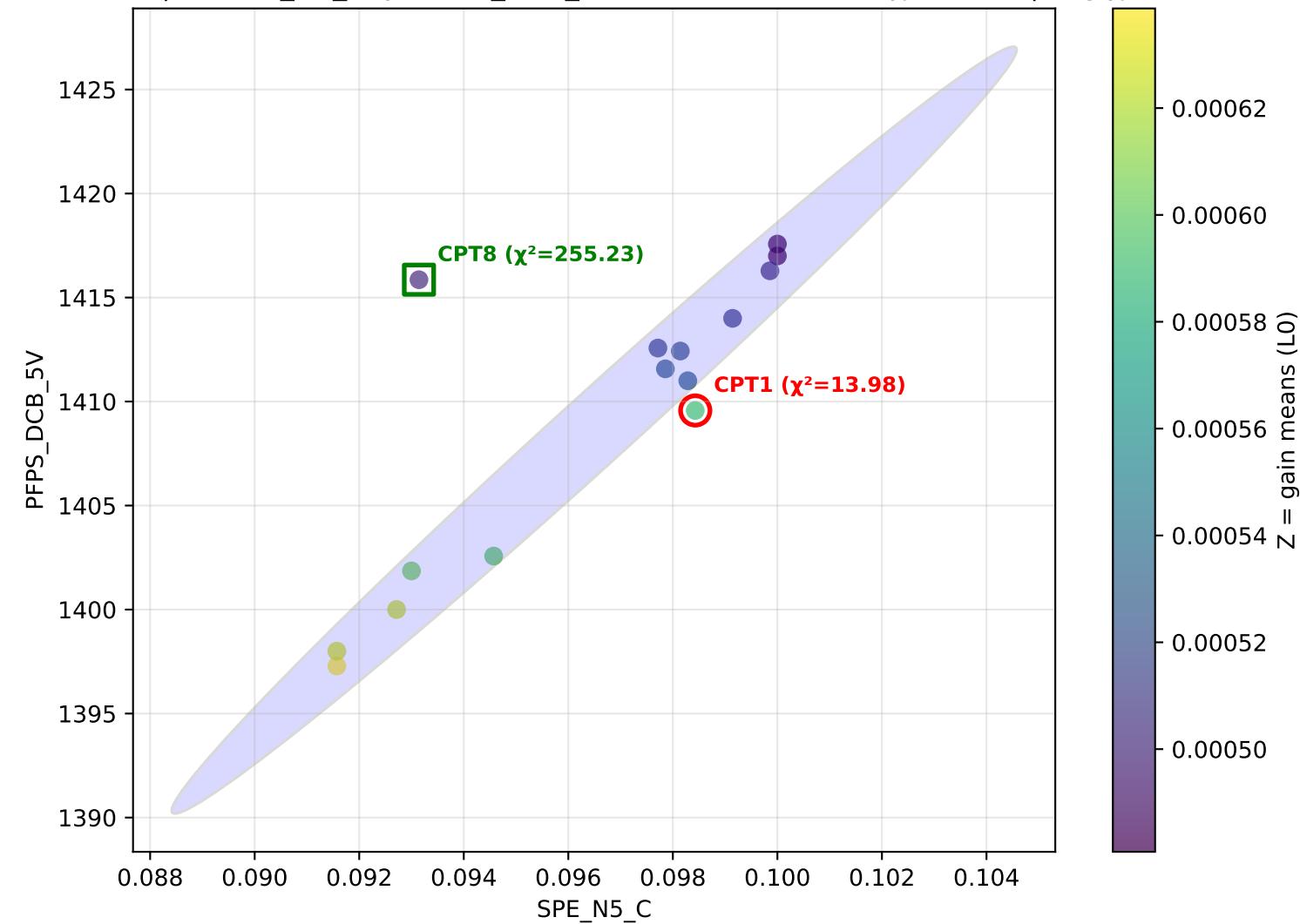
(withCPT1) | x=SPE\_N5\_C y=PFPS\_DCB\_5V z=H2 — H2 CPT1  $\chi^2=76.00$  | avg  $\chi^2=23.68$



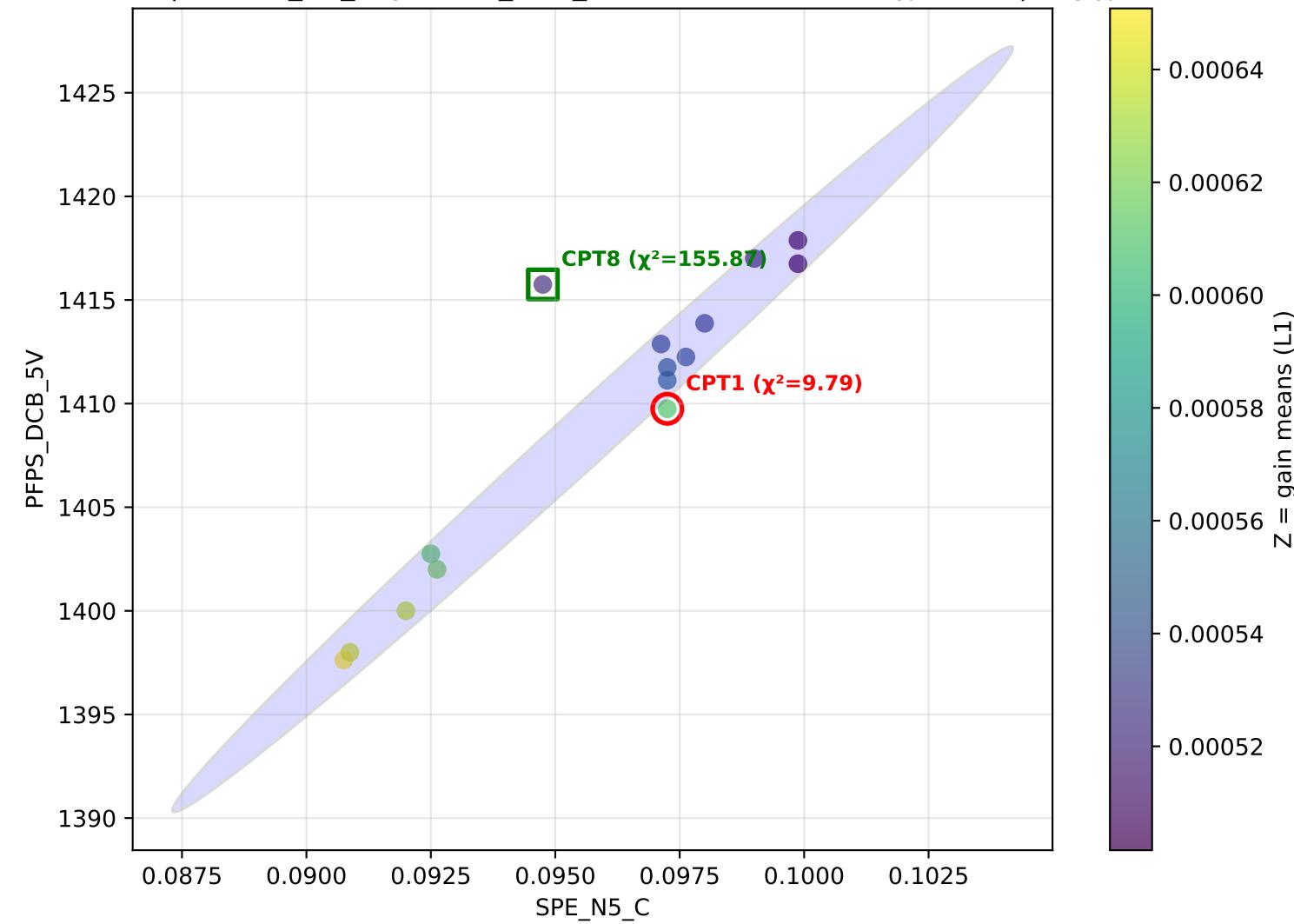
(withCPT1) | x=SPE\_N5\_C y=PFPS\_DCB\_5V z=H3 — H3 CPT1  $\chi^2=41.19$  | avg  $\chi^2=23.68$



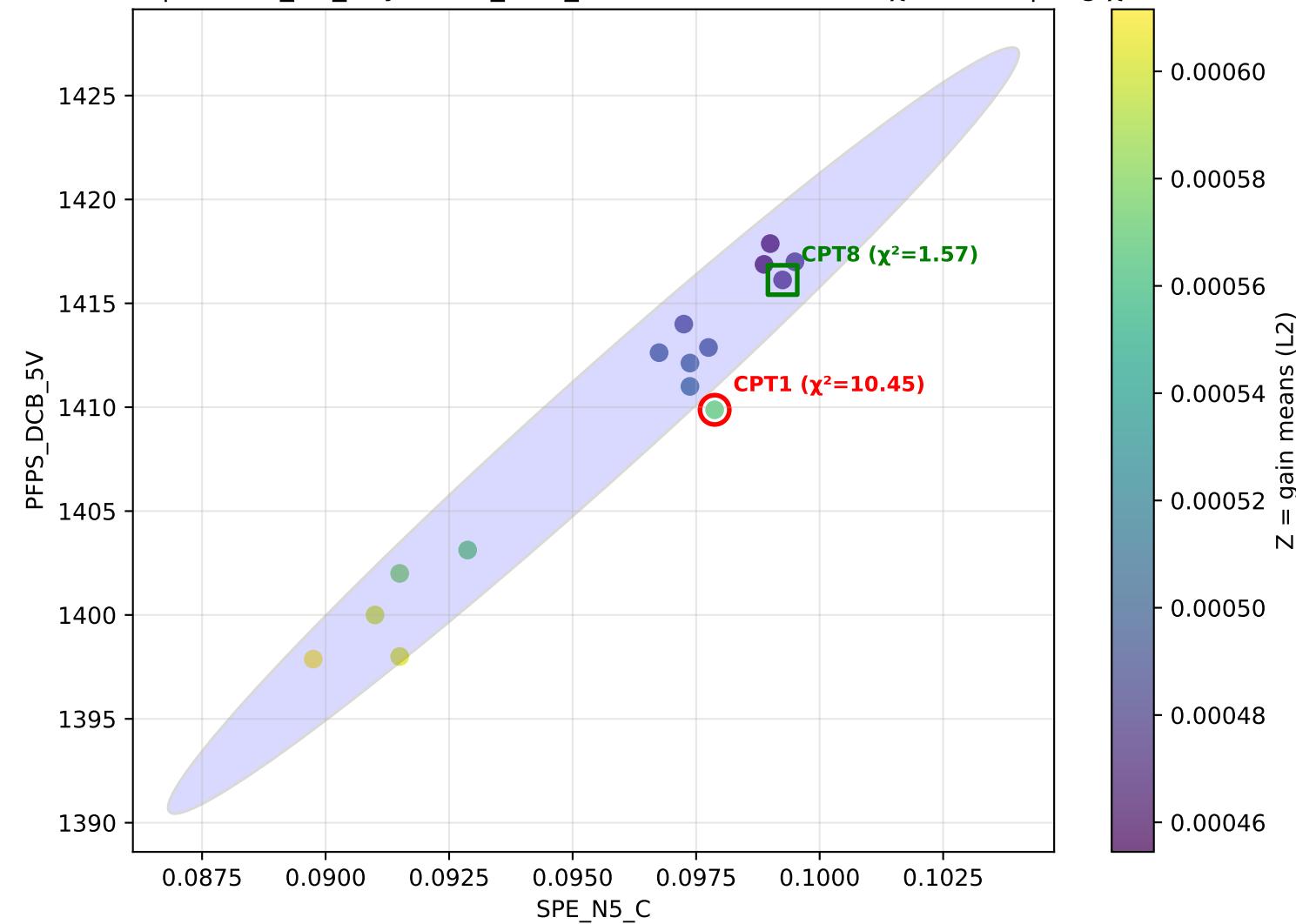
withCPT1) |  $x=\text{SPE\_N5\_C}$   $y=\text{PFPS\_DCB\_5V}$   $z=L0$  —  $L0 \text{ CPT1 } \chi^2=13.98$  | avg  $\chi^2=23.68$



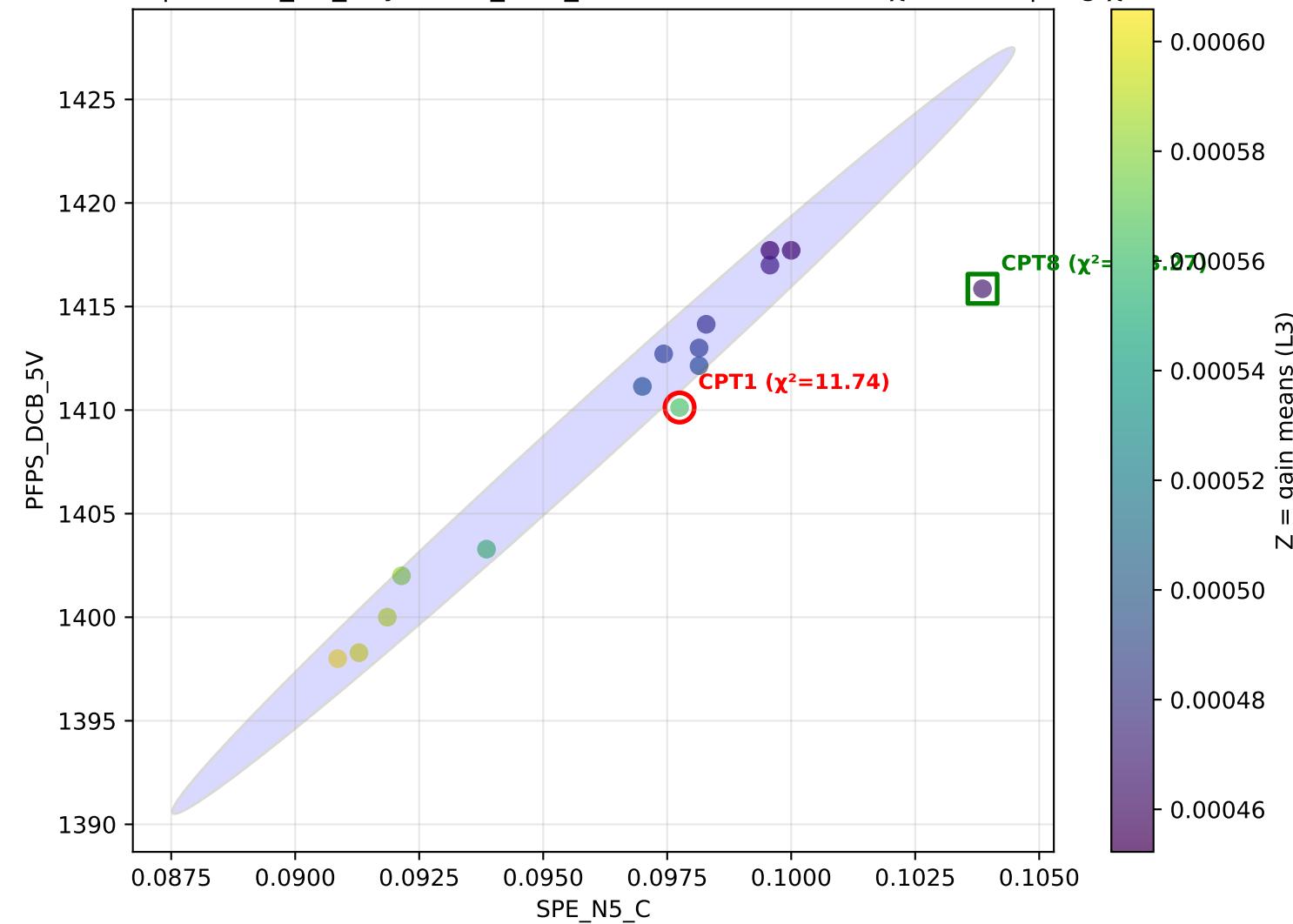
(withCPT1) | x=SPE\_N5\_C y=PFPS\_DCB\_5V z=L1 — L1 CPT1  $\chi^2=9.79$  | avg  $\chi^2=23.68$



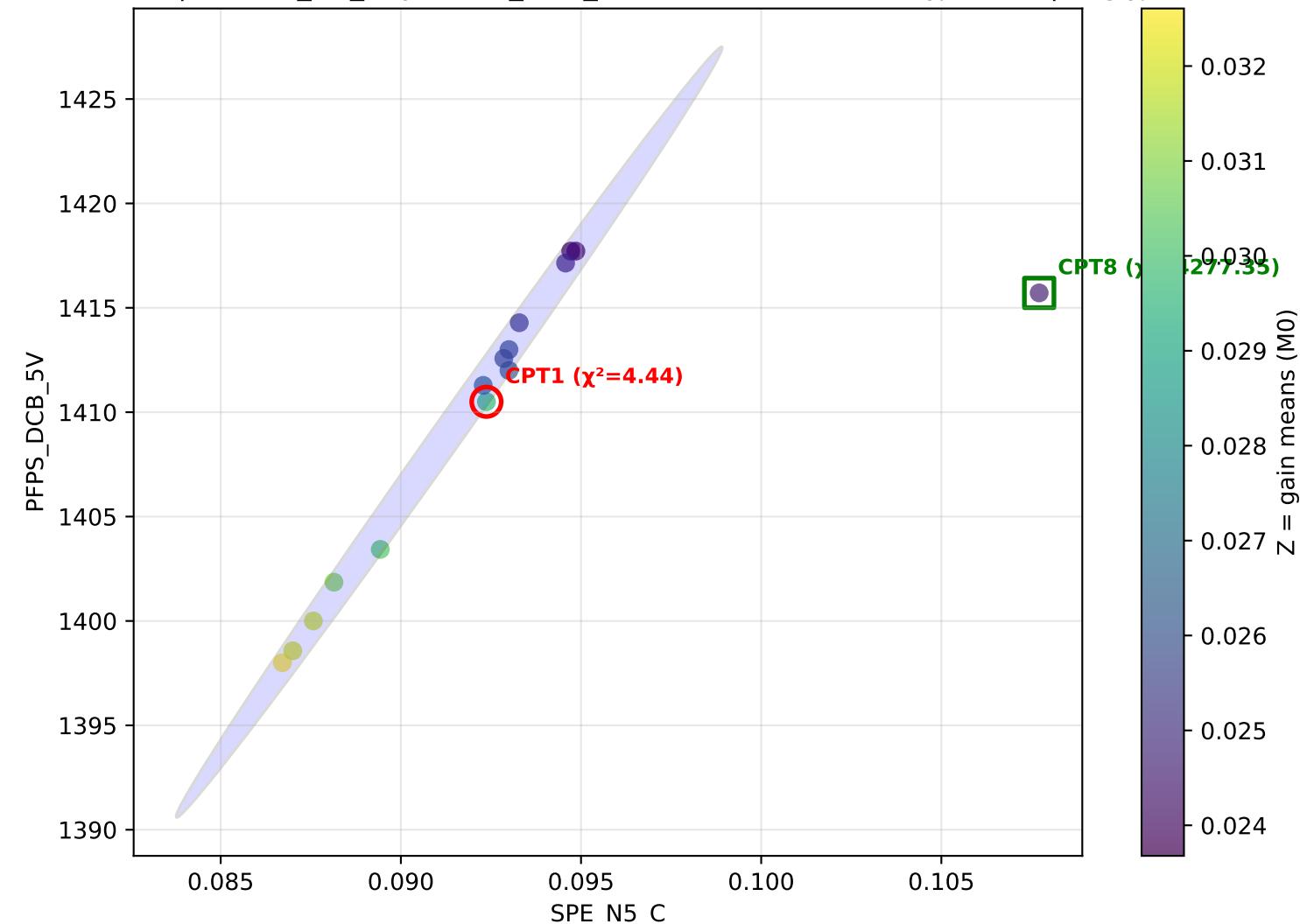
withCPT1) |  $x=\text{SPE\_N5\_C}$   $y=\text{PFPS\_DCB\_5V}$   $z=L2$  — L2 CPT1  $\chi^2=10.45$  | avg  $\chi^2=23.68$



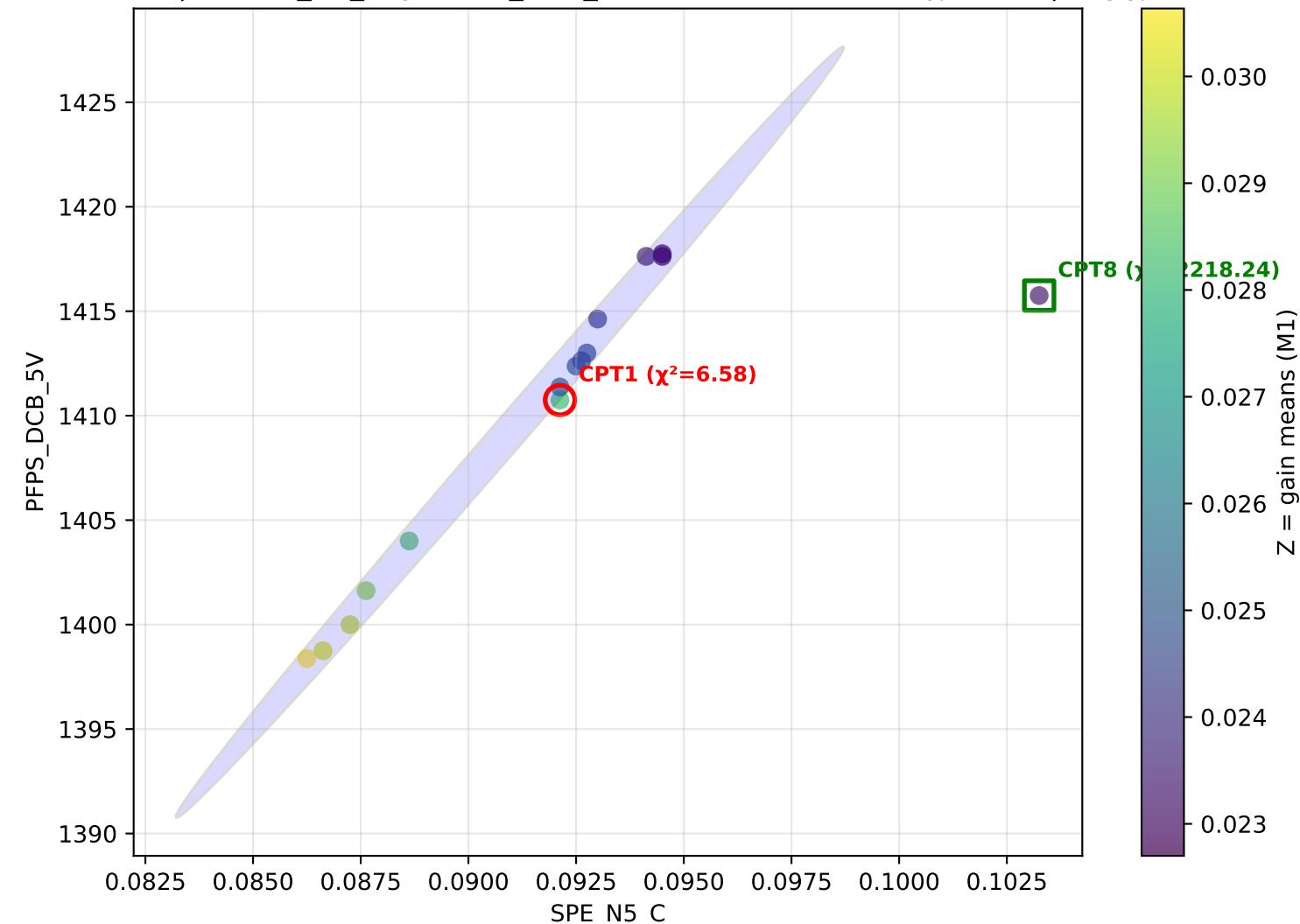
withCPT1) |  $x=\text{SPE\_N5\_C}$   $y=\text{PFPS\_DCB\_5V}$   $z=L3$  — L3 CPT1  $\chi^2=11.74$  | avg  $\chi^2=23.68$



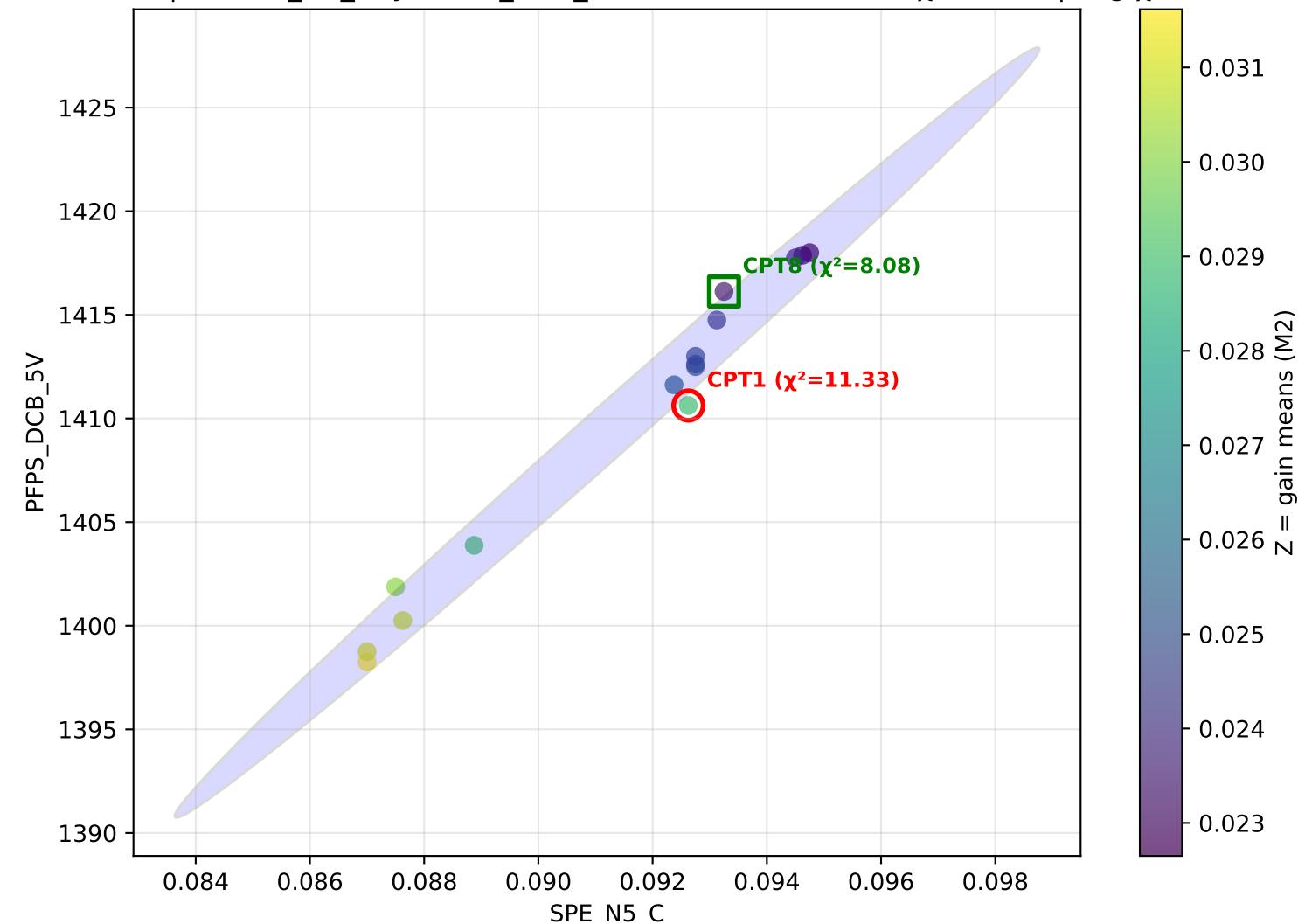
(withCPT1) | x=SPE\_N5\_C y=PFPS\_DCB\_5V z=M0 — M0 CPT1  $\chi^2=4.44$  | avg  $\chi^2=23.68$



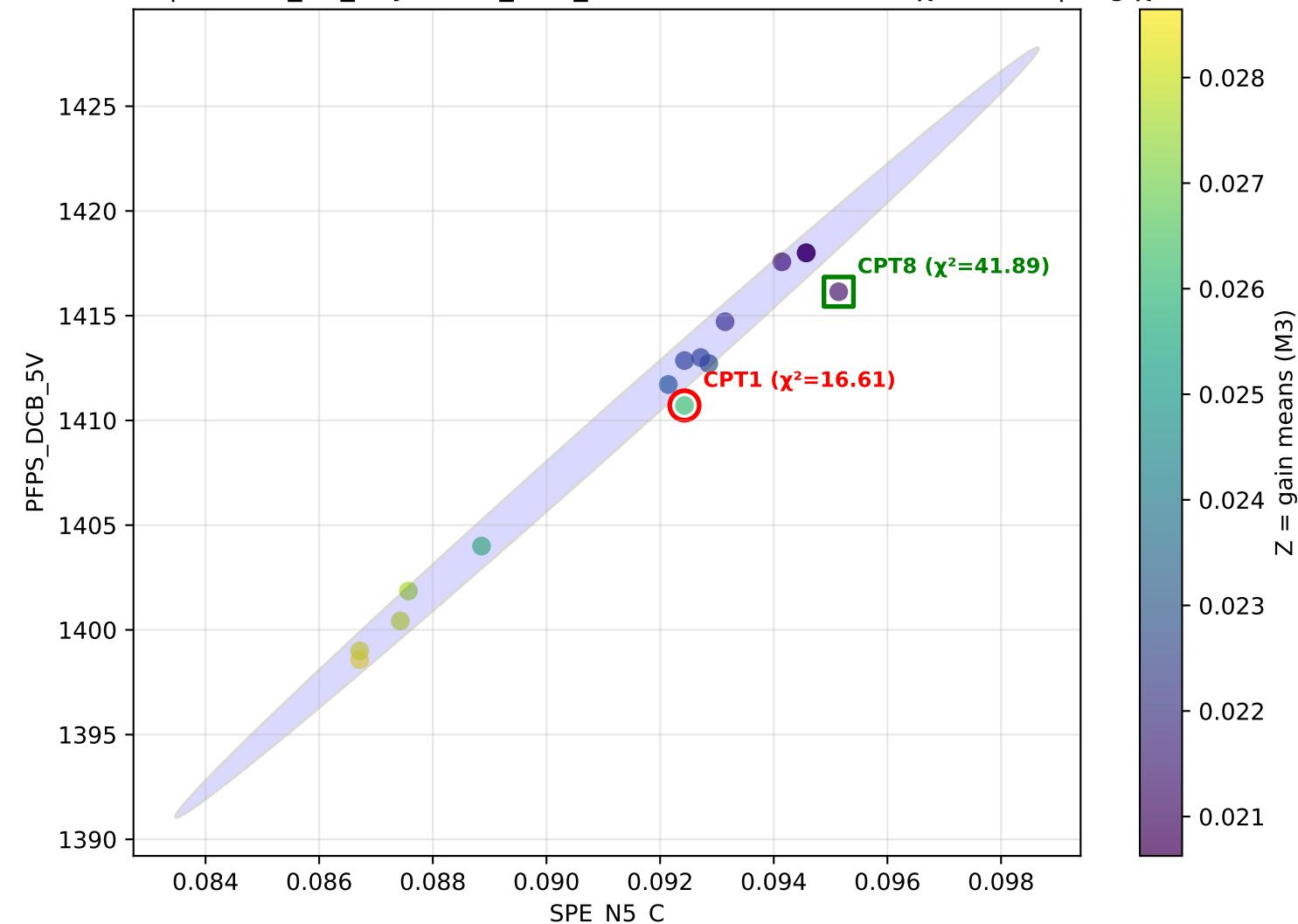
(withCPT1) | x=SPE\_N5\_C y=PFPS\_DCB\_5V z=M1 — M1 CPT1  $\chi^2=6.58$  | avg  $\chi^2=23.68$



(withCPT1) | x=SPE\_N5\_C y=PFPS\_DCB\_5V z=M2 — M2 CPT1  $\chi^2=11.33$  | avg  $\chi^2=23.68$



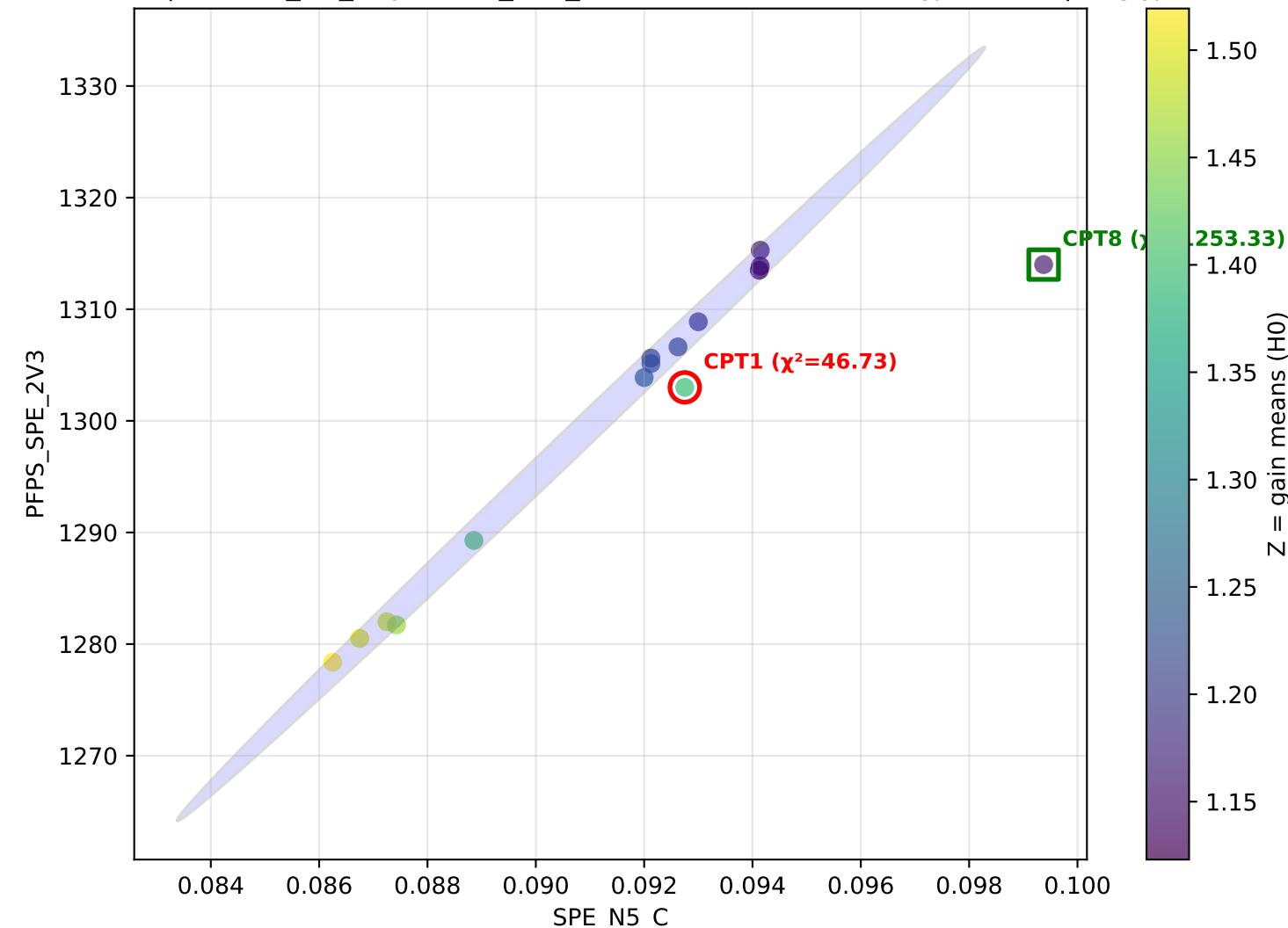
(withCPT1) | x=SPE\_N5\_C y=PFPS\_DCB\_5V z=M3 — M3 CPT1  $\chi^2=16.61$  | avg  $\chi^2=23.68$



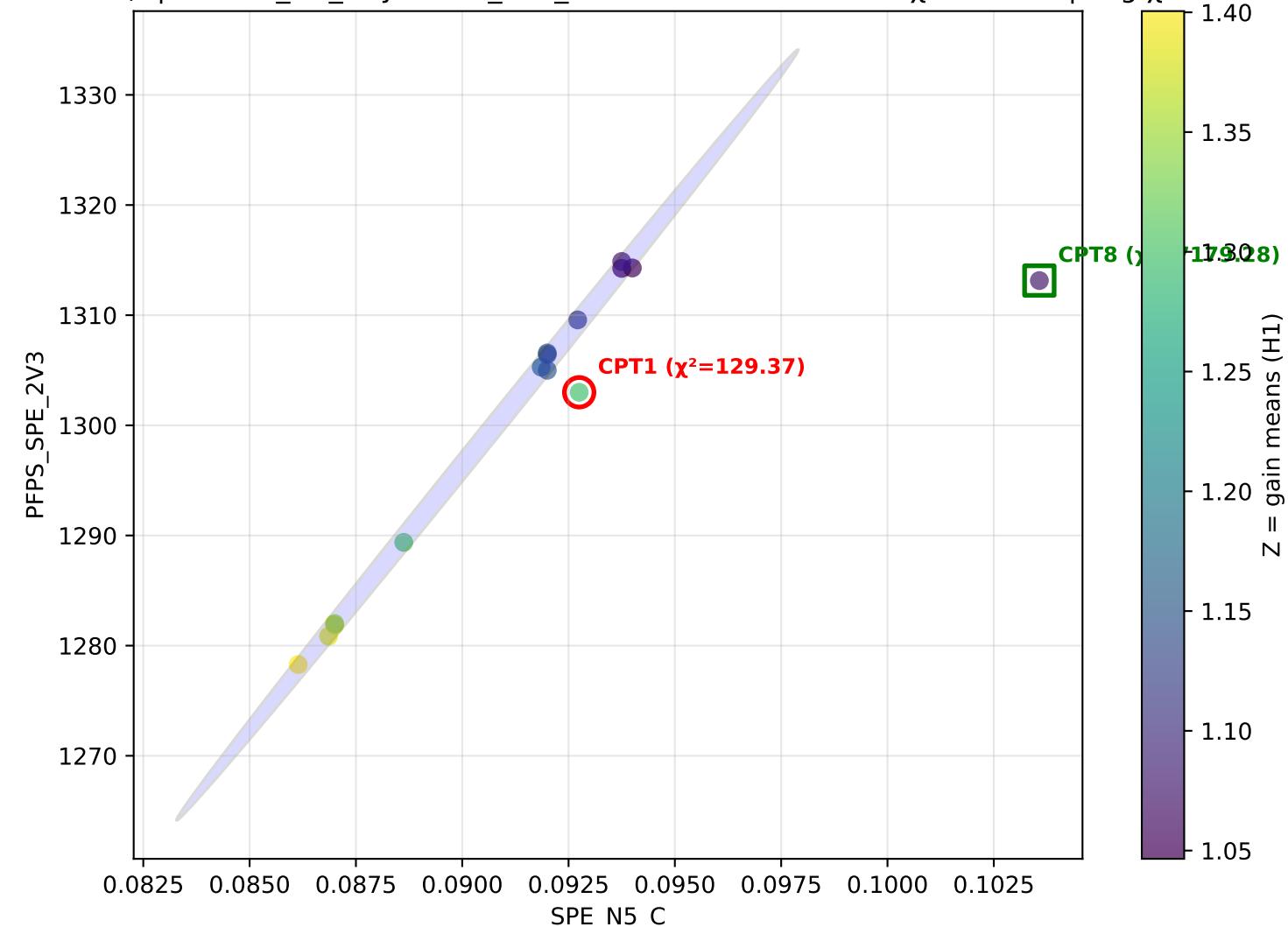
Pair: SPE\_N5\_C vs PFPS\_SPE\_2V3

Average  $\chi^2(\text{CPT1})$  across settings: 23.29

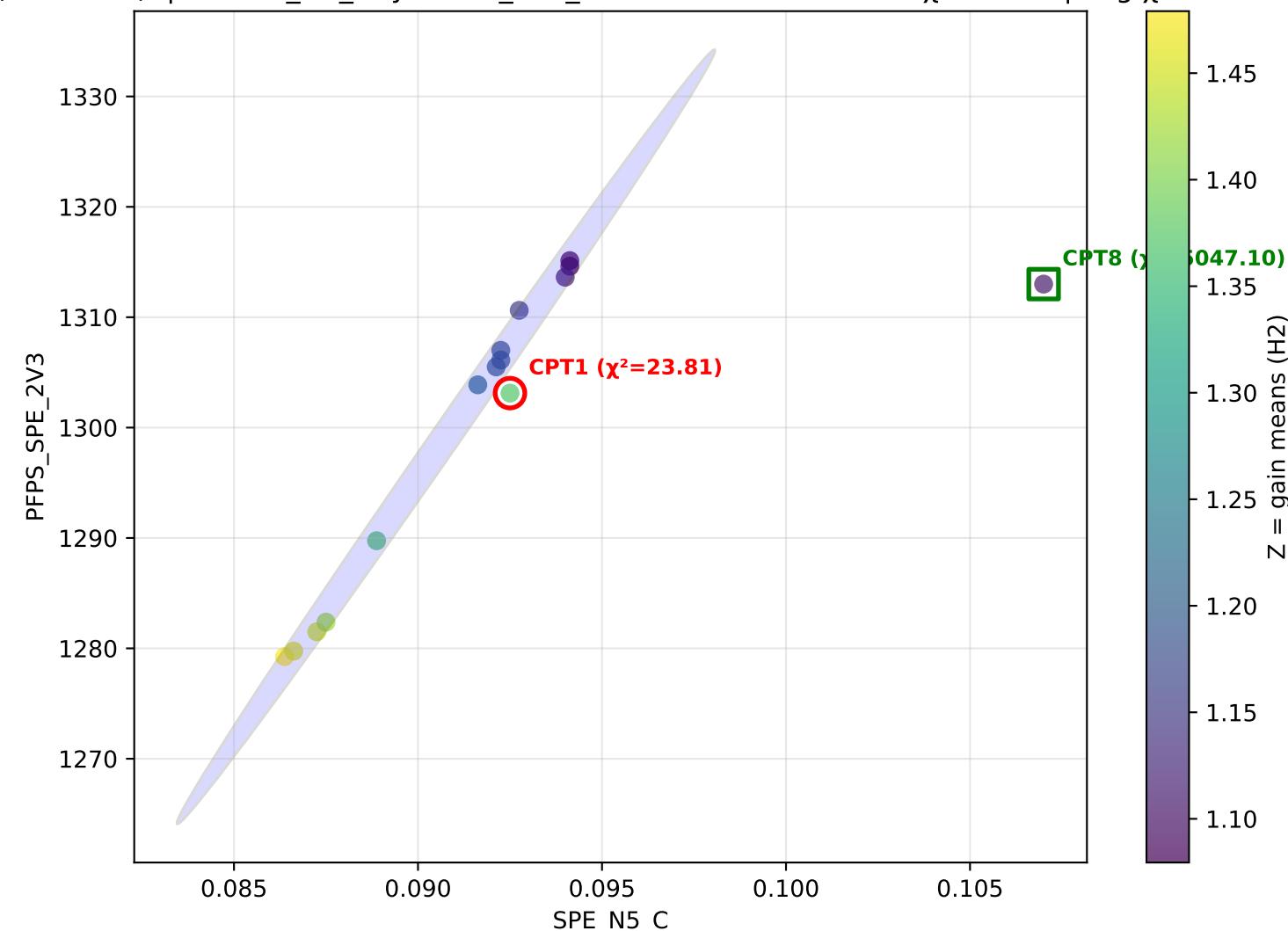
(withCPT1) | x=SPE\_N5\_C y=PFPS\_SPE\_2V3 z=H0 — H0 CPT1  $\chi^2=46.73$  | avg  $\chi^2=23.29$



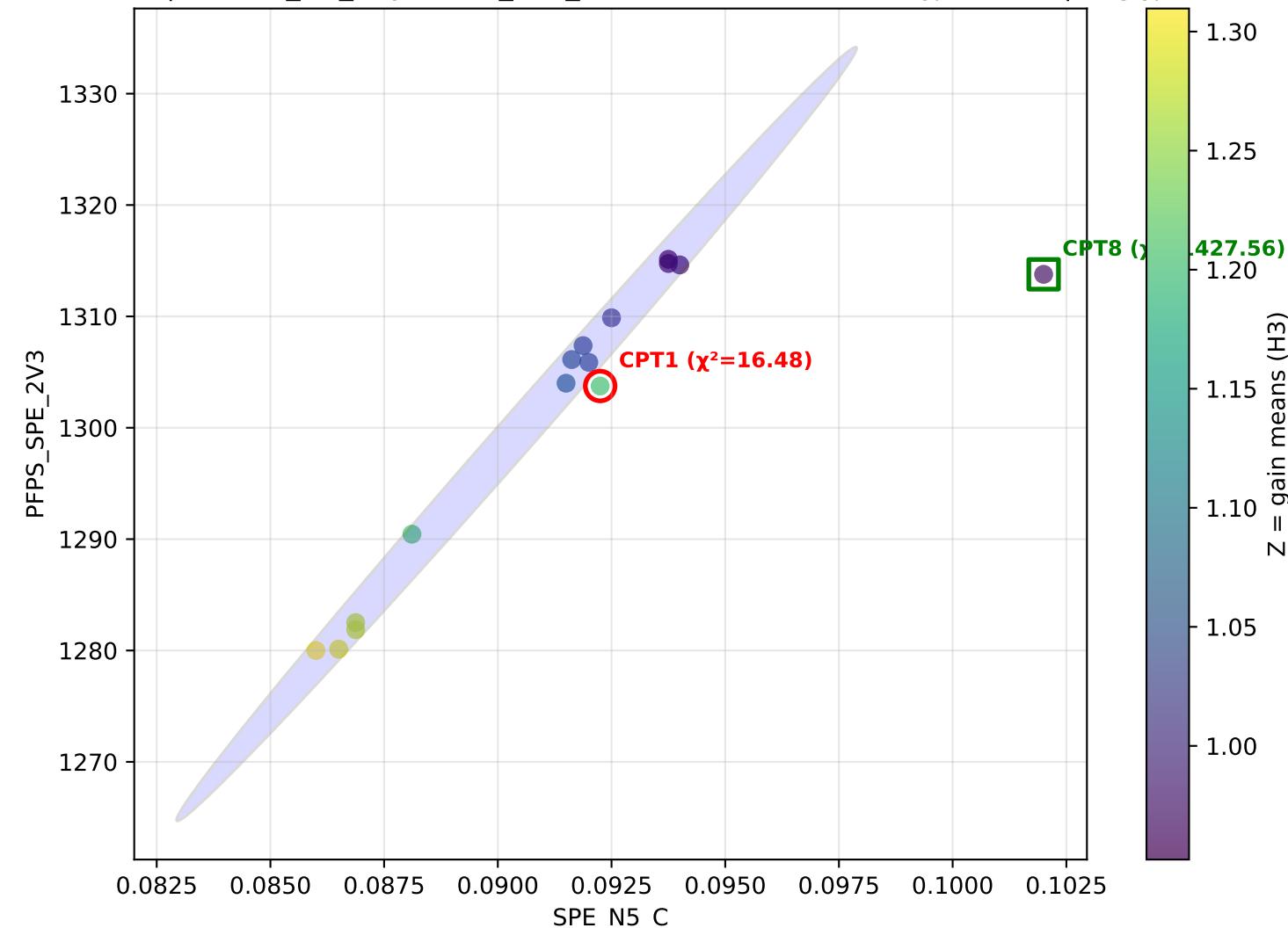
withCPT1) |  $x=\text{SPE\_N5\_C}$   $y=\text{PFPS\_SPE\_2V3}$   $z=\text{H1}$  — H1 CPT1  $\chi^2=129.37$  | avg  $\chi^2=23.29$



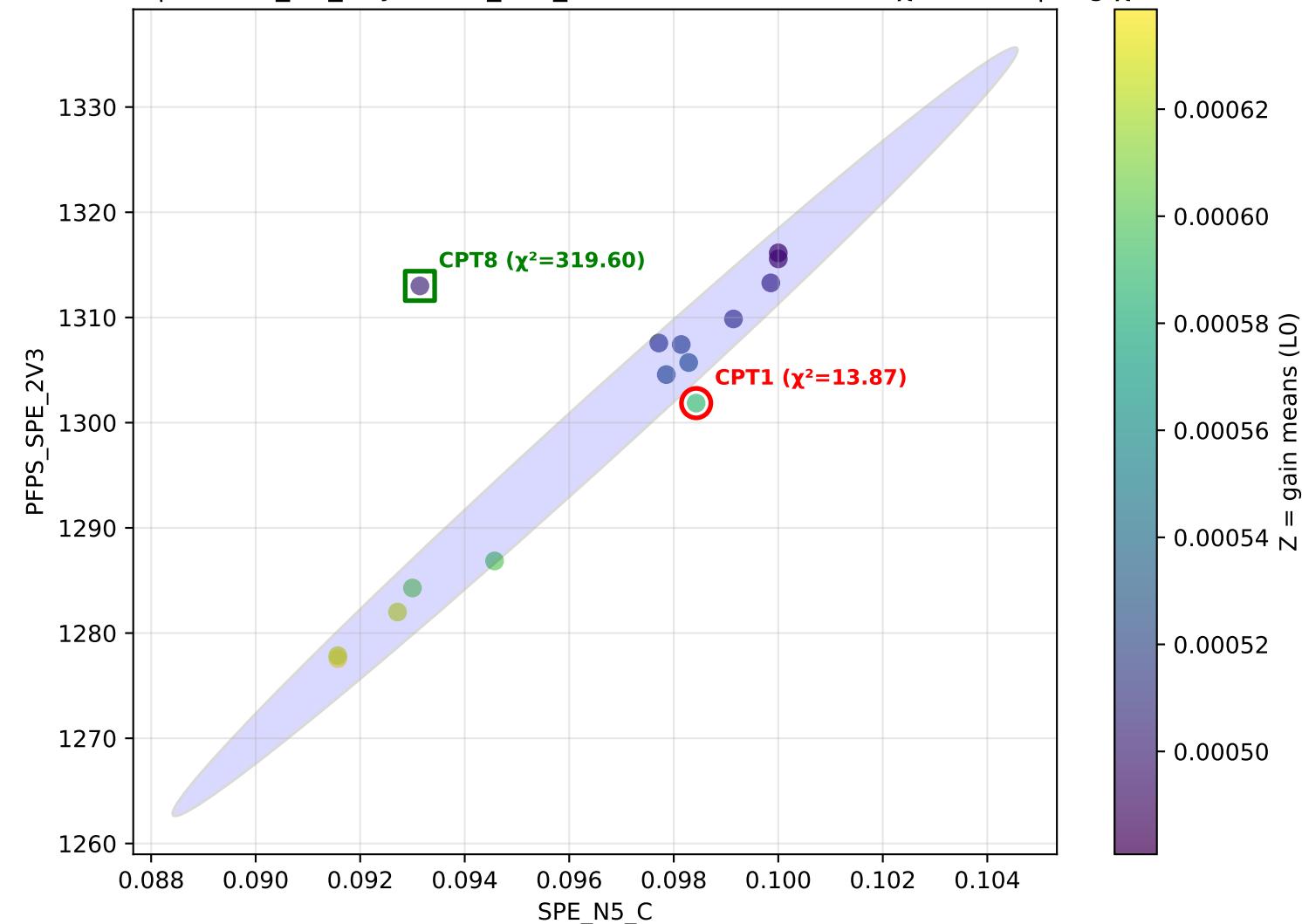
(withCPT1) | x=SPE\_N5\_C y=PFPS\_SPE\_2V3 z=H2 — H2 CPT1  $\chi^2=23.81$  | avg  $\chi^2=23.29$



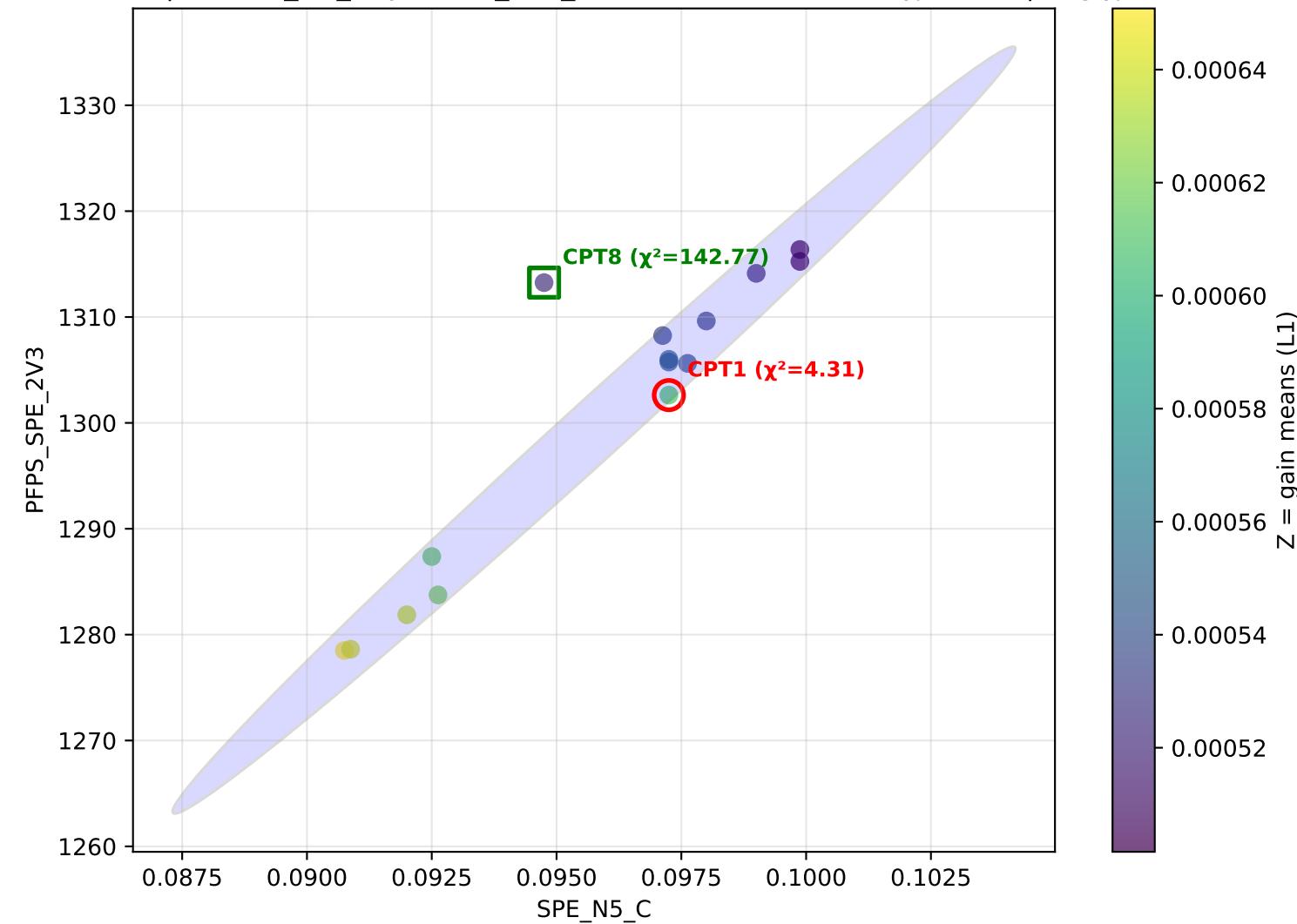
(withCPT1) | x=SPE\_N5\_C y=PFPS\_SPE\_2V3 z=H3 — H3 CPT1  $\chi^2=16.48$  | avg  $\chi^2=23.29$



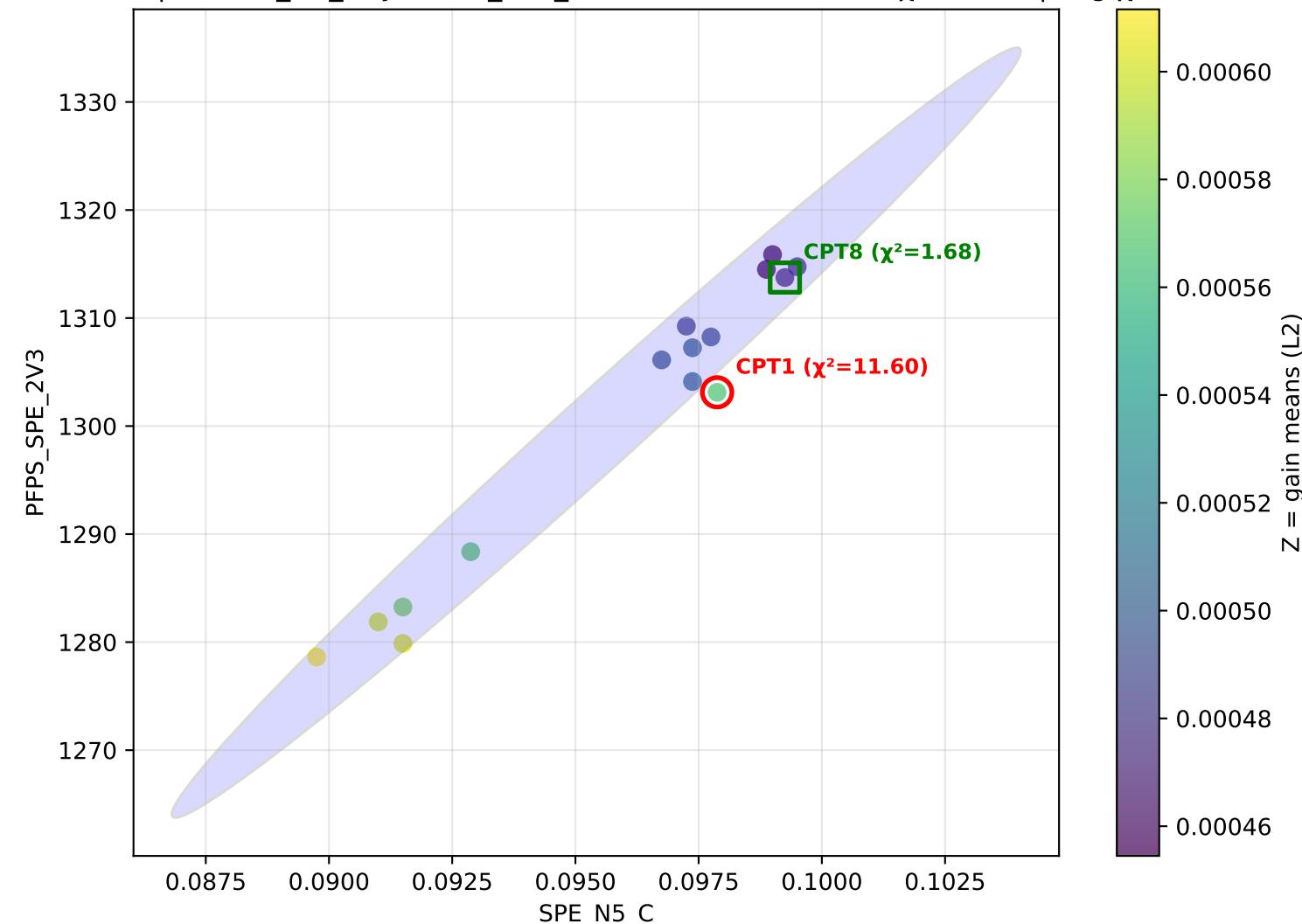
withCPT1) |  $x=\text{SPE\_N5\_C}$   $y=\text{PFPS\_SPE\_2V3}$   $z=L_0$  —  $L_0 \text{ CPT1 } \chi^2=13.87$  | avg  $\chi^2=23.29$



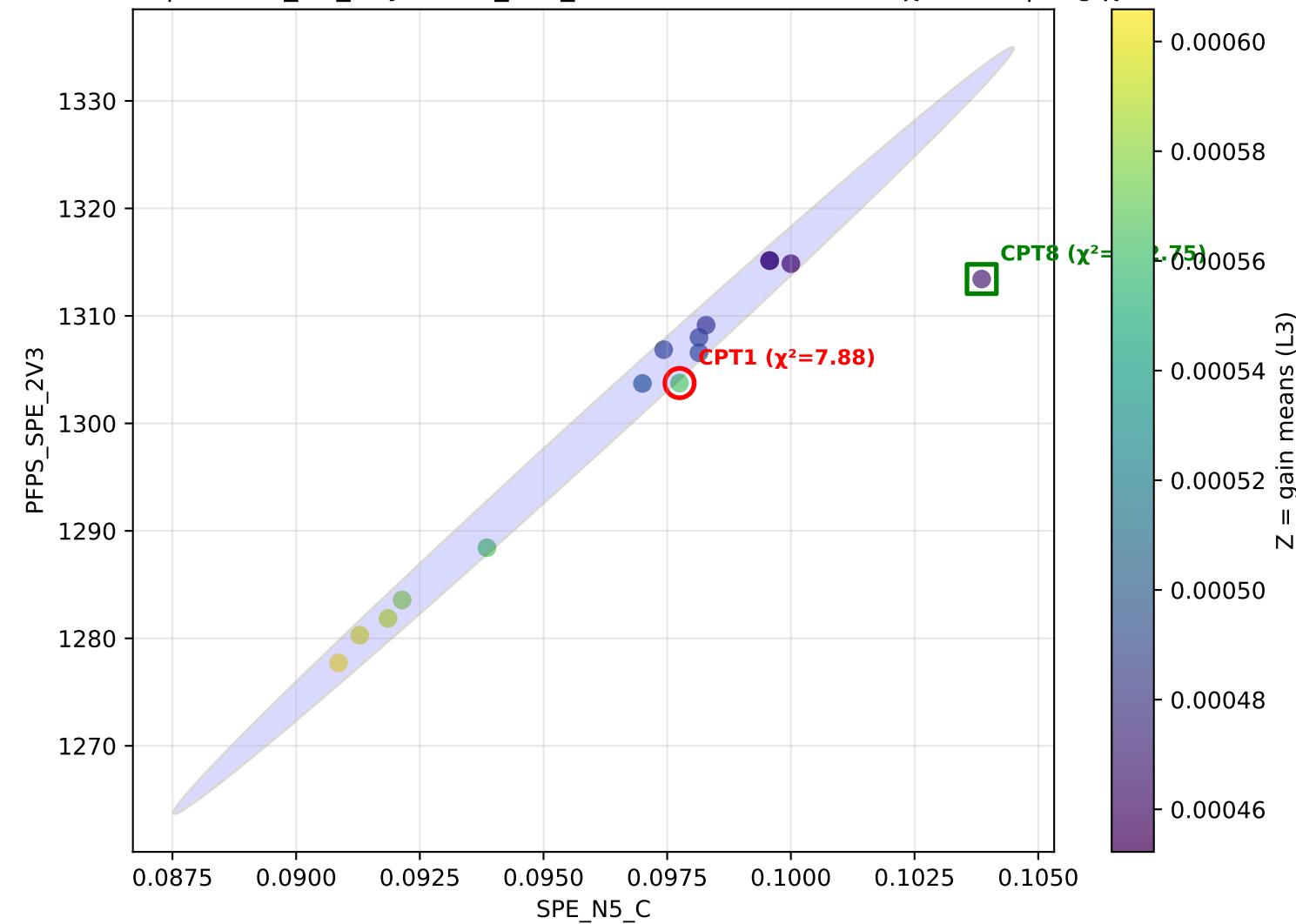
(withCPT1) | x=SPE\_N5\_C y=PFPS\_SPE\_2V3 z=L1 — L1 CPT1  $\chi^2=4.31$  | avg  $\chi^2=23.29$



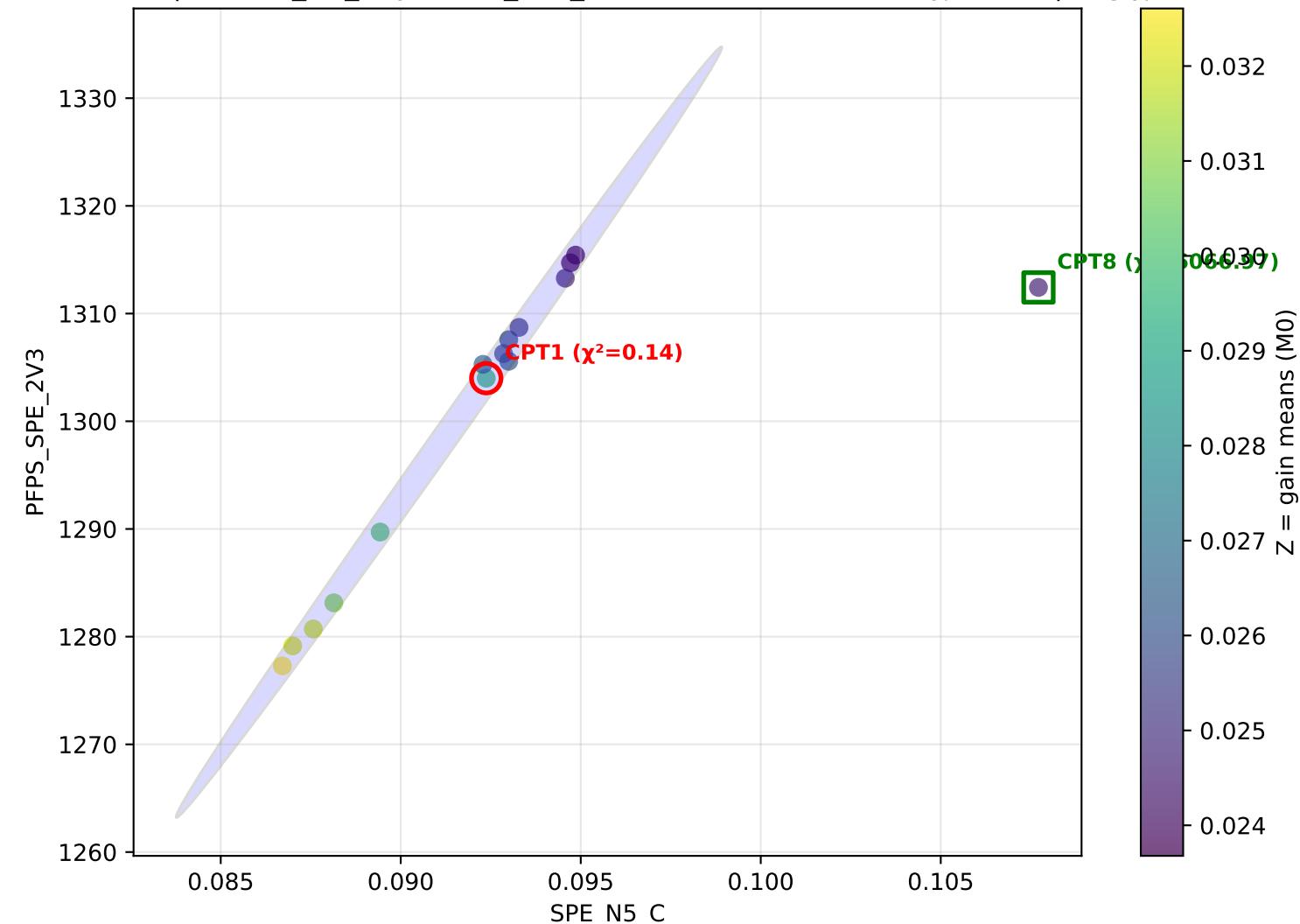
withCPT1) |  $x=\text{SPE\_N5\_C}$   $y=\text{PFPS\_SPE\_2V3}$   $z=L2$  — L2 CPT1  $\chi^2=11.60$  | avg  $\chi^2=23.29$



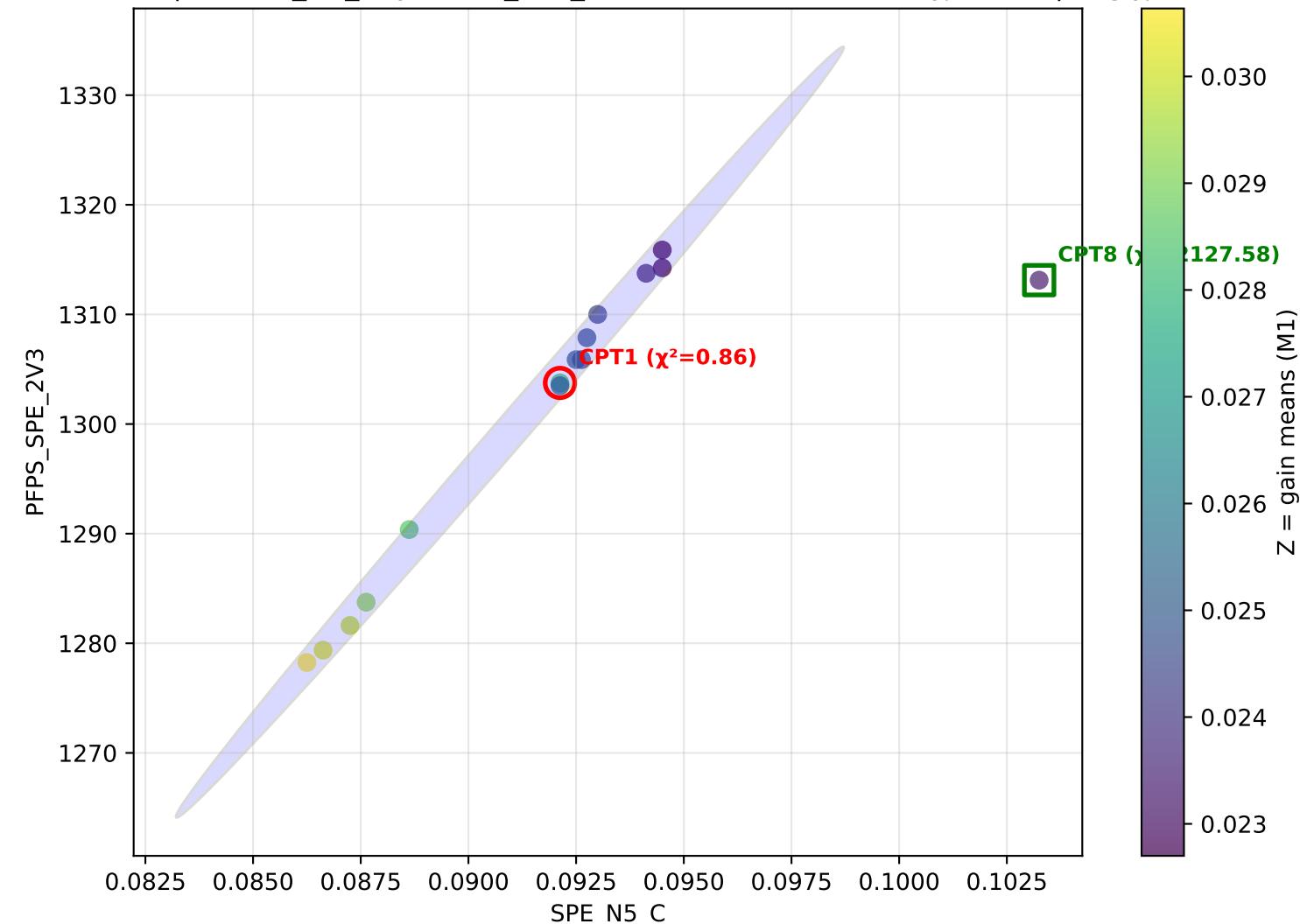
(withCPT1) | x=SPE\_N5\_C y=PFPS\_SPE\_2V3 z=L3 — L3 CPT1  $\chi^2=7.88$  | avg  $\chi^2=23.29$



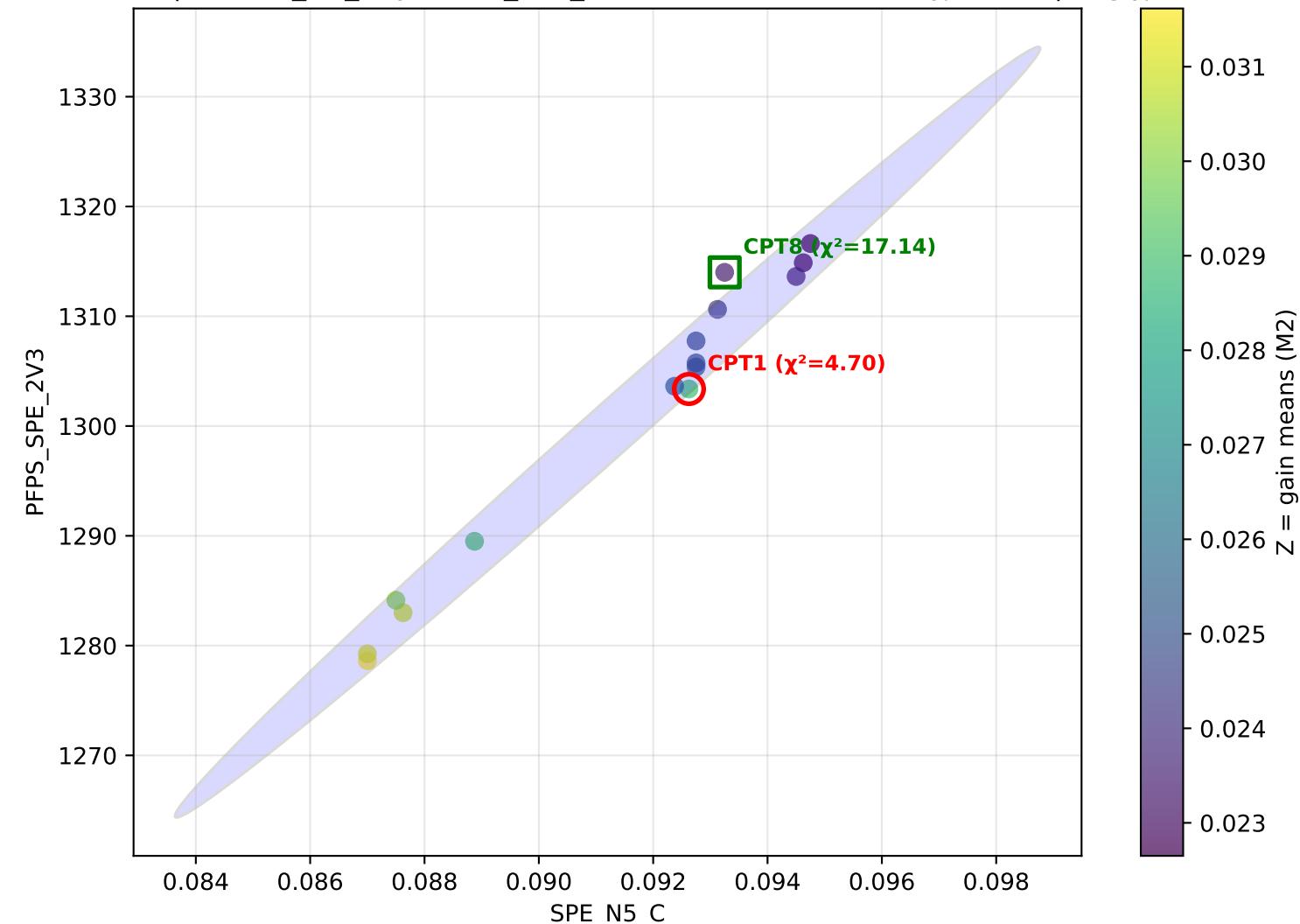
(withCPT1) | x=SPE\_N5\_C y=PFPS\_SPE\_2V3 z=M0 — M0 CPT1  $\chi^2=0.14$  | avg  $\chi^2=23.29$



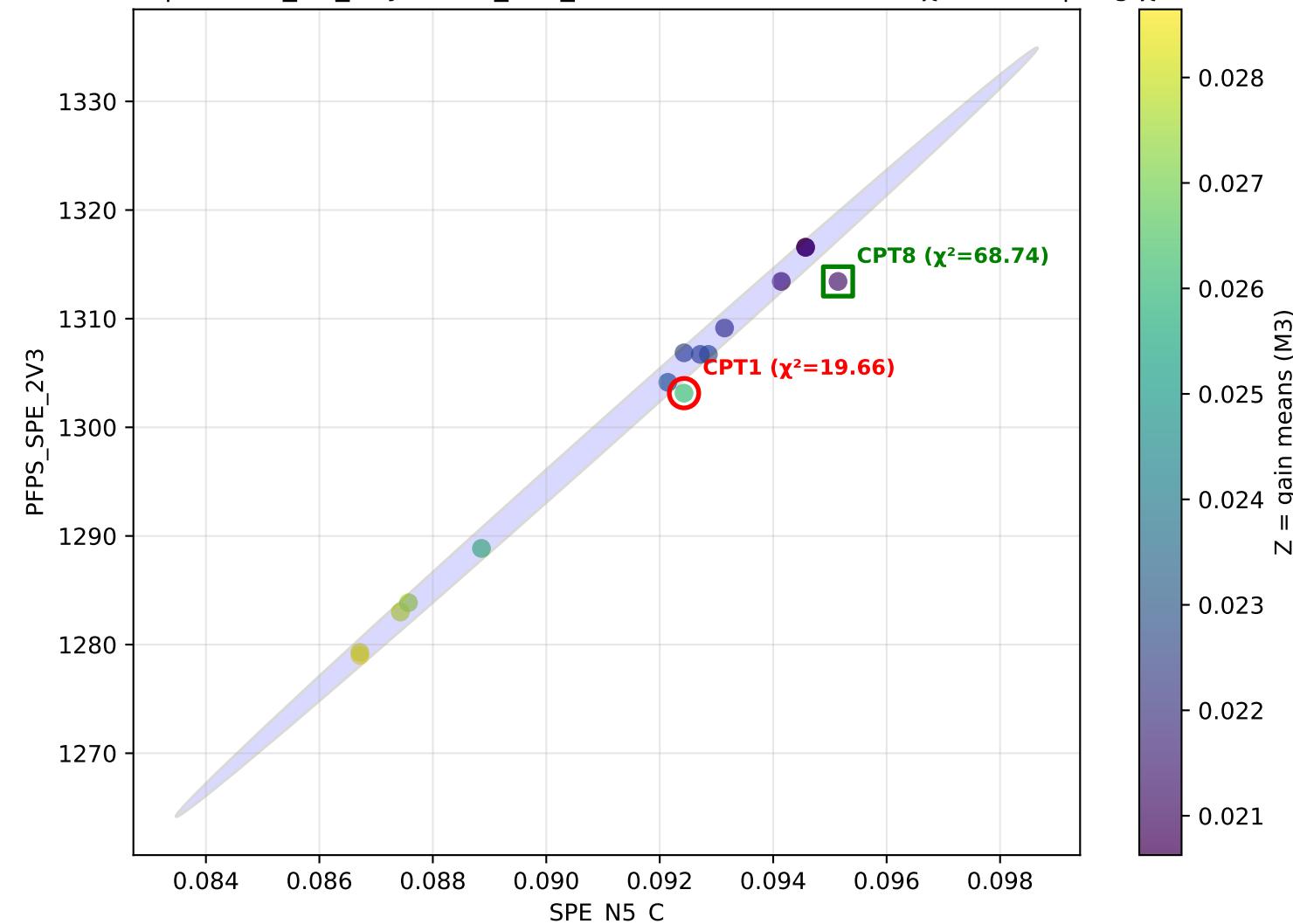
(withCPT1) | x=SPE\_N5\_C y=PFPS\_SPE\_2V3 z=M1 — M1 CPT1  $\chi^2=0.86$  | avg  $\chi^2=23.29$



(withCPT1) | x=SPE\_N5\_C y=PFPS\_SPE\_2V3 z=M2 — M2 CPT1  $\chi^2=4.70$  | avg  $\chi^2=23.29$

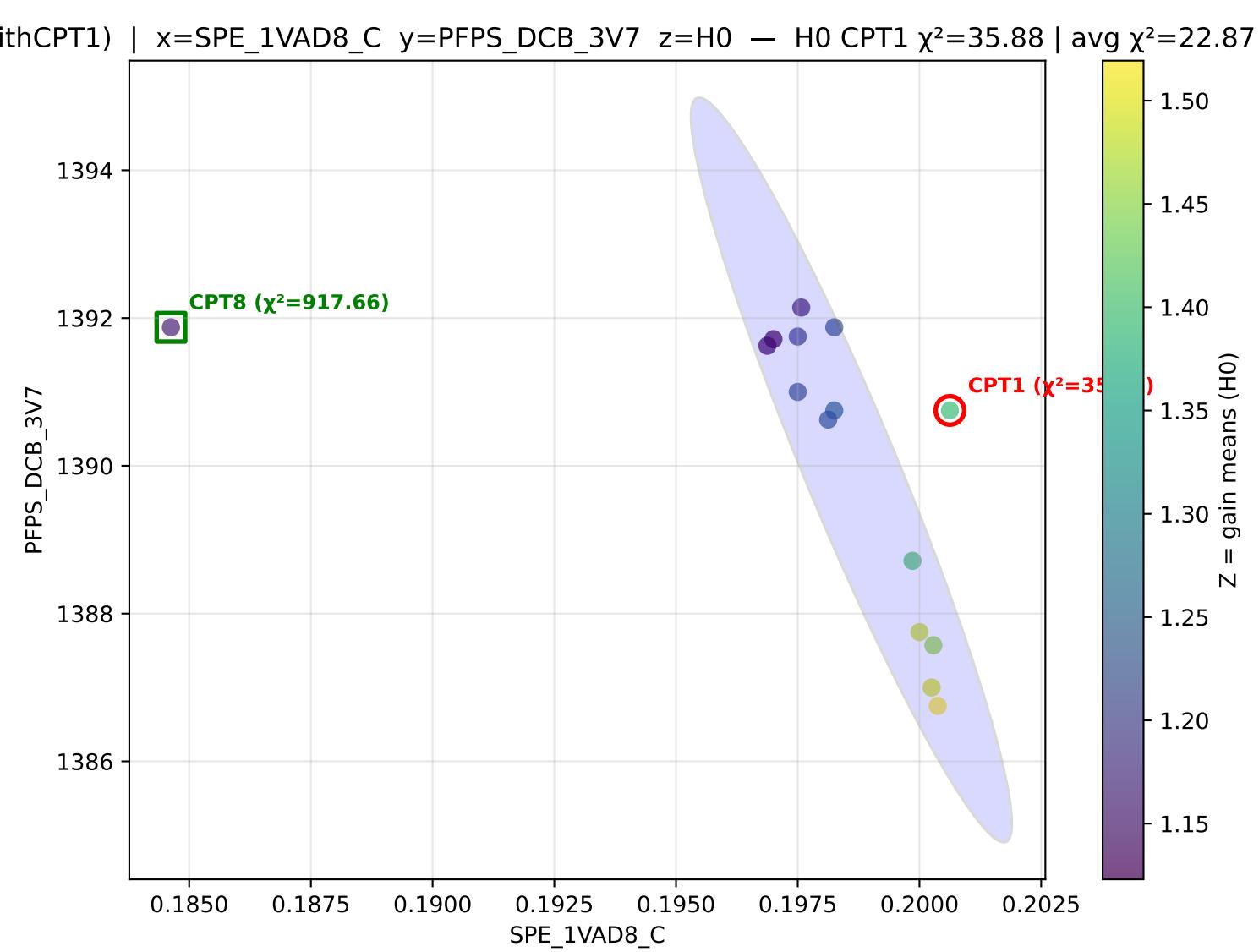


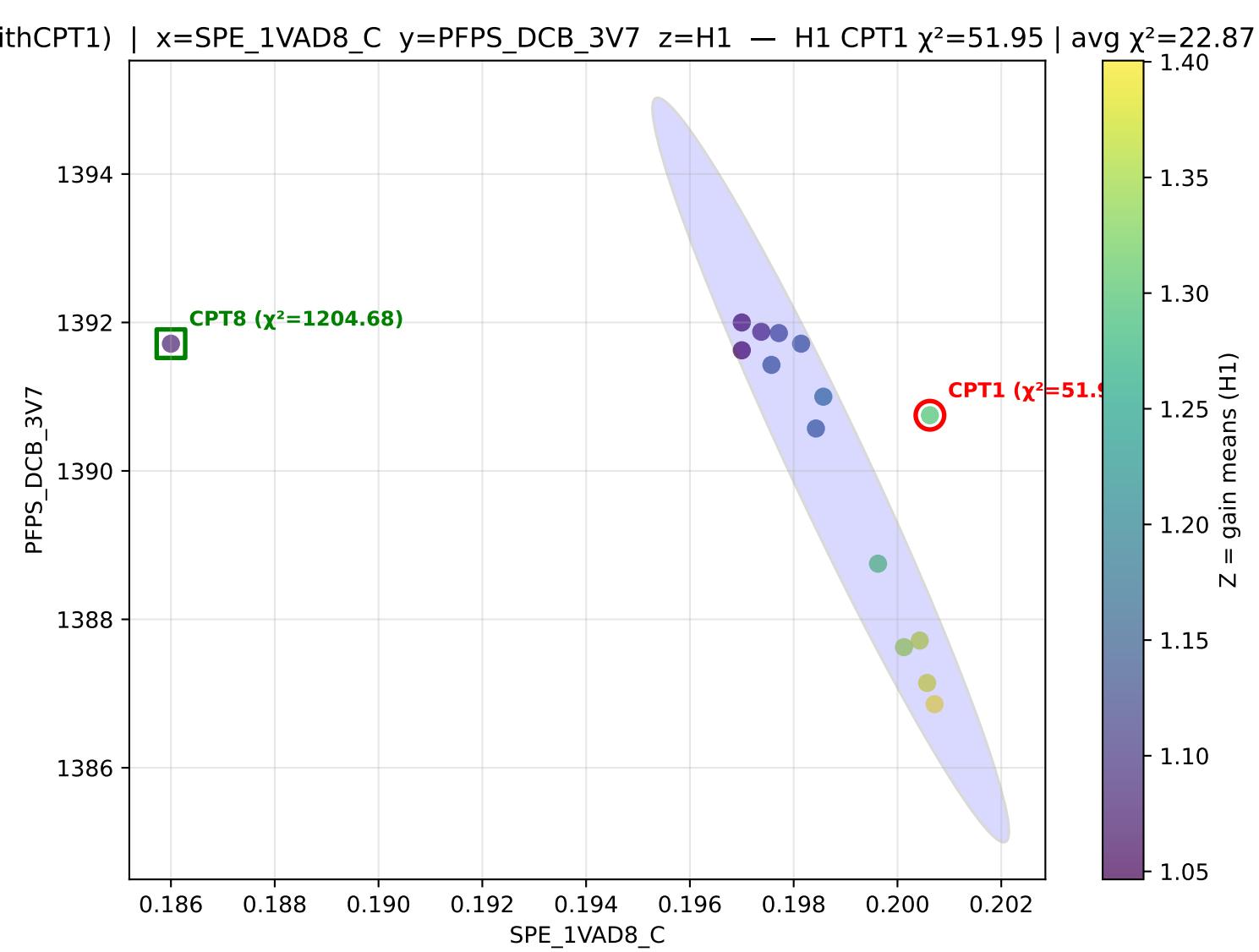
(withCPT1) |  $x=\text{SPE\_N5\_C}$   $y=\text{PFPS\_SPE\_2V3}$   $z=\text{M3}$  — M3 CPT1  $\chi^2=19.66$  | avg  $\chi^2=23.29$

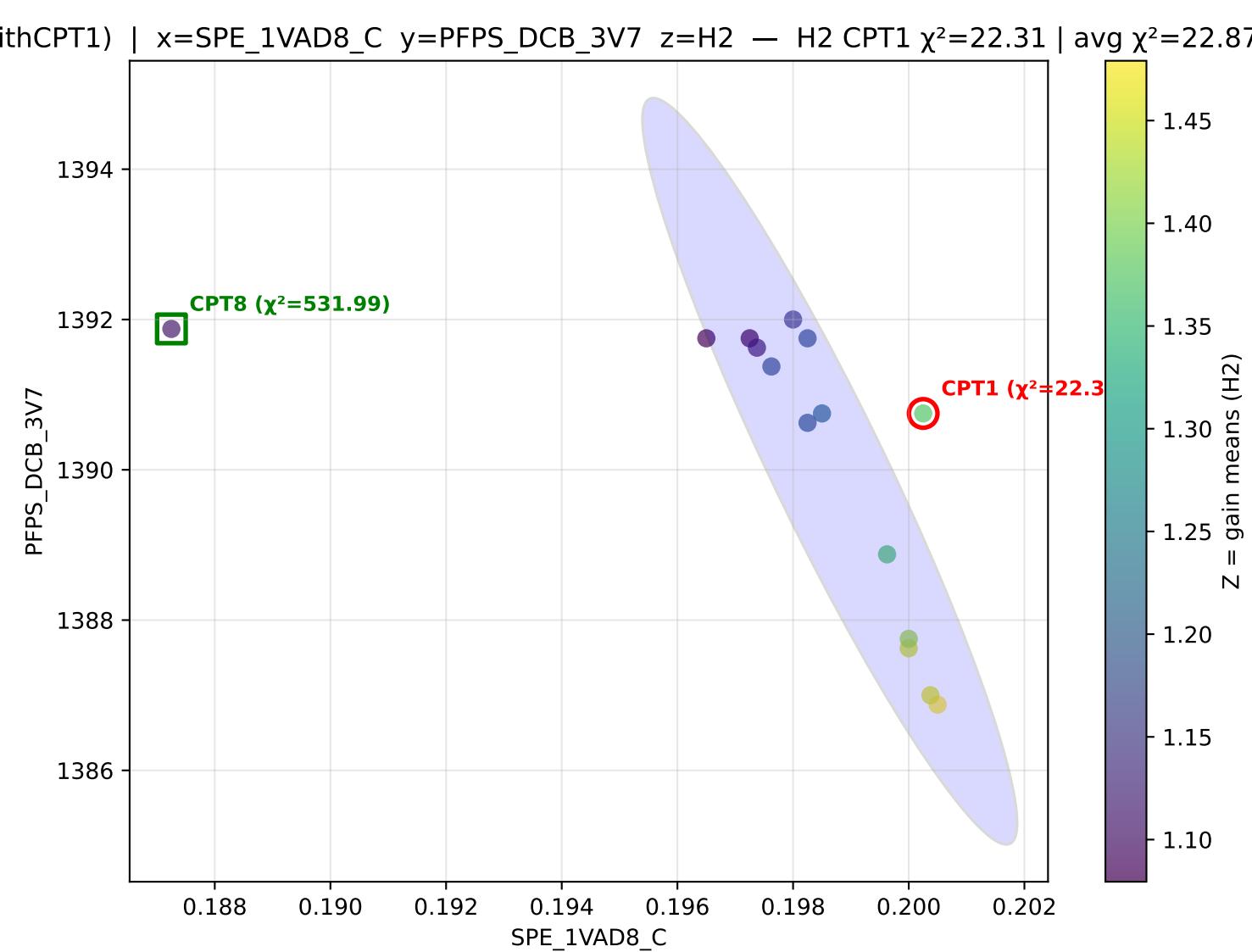


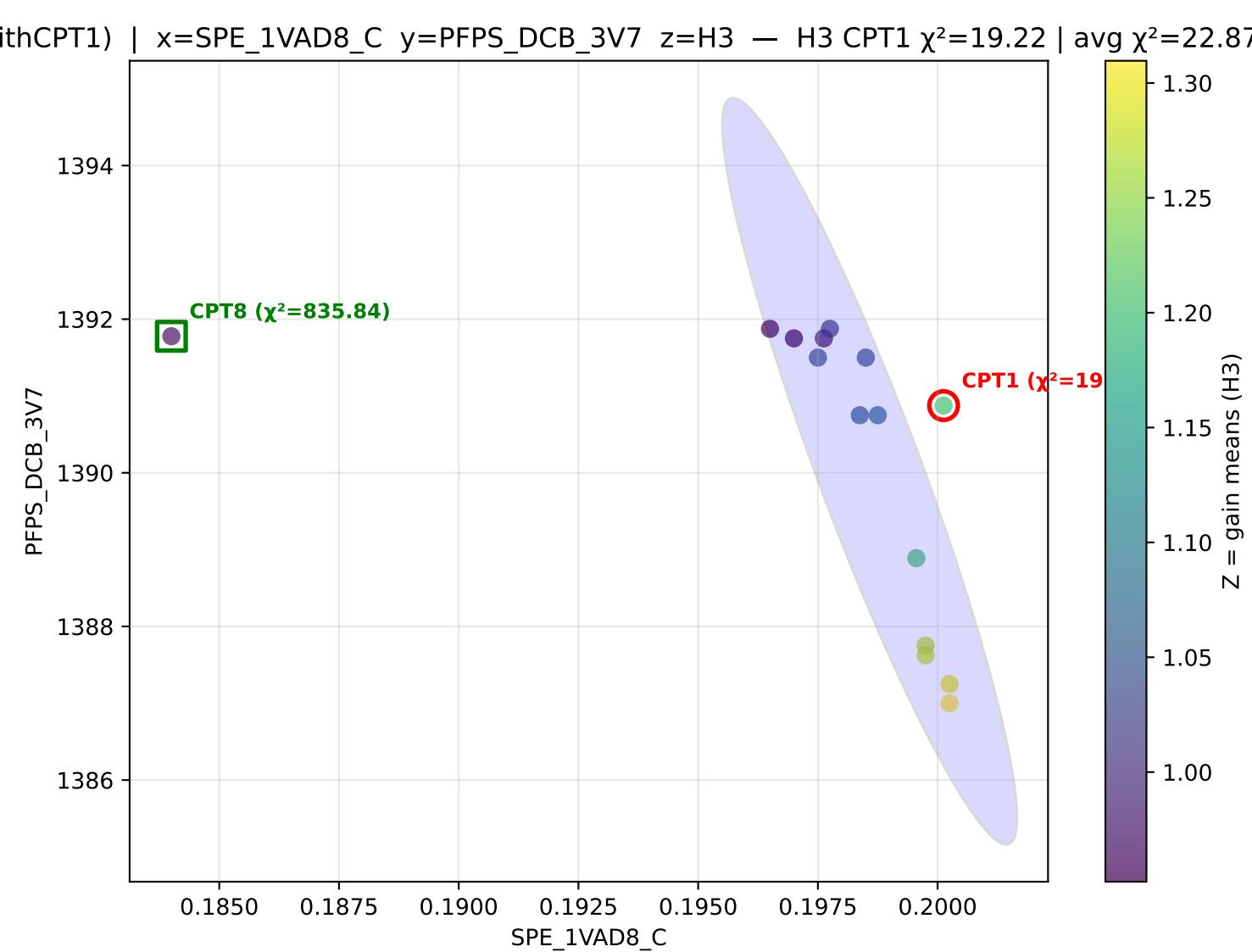
Pair: SPE\_1VAD8\_C vs PFPS\_DCB\_3V7

Average  $\chi^2$ (CPT1) across settings: 22.87

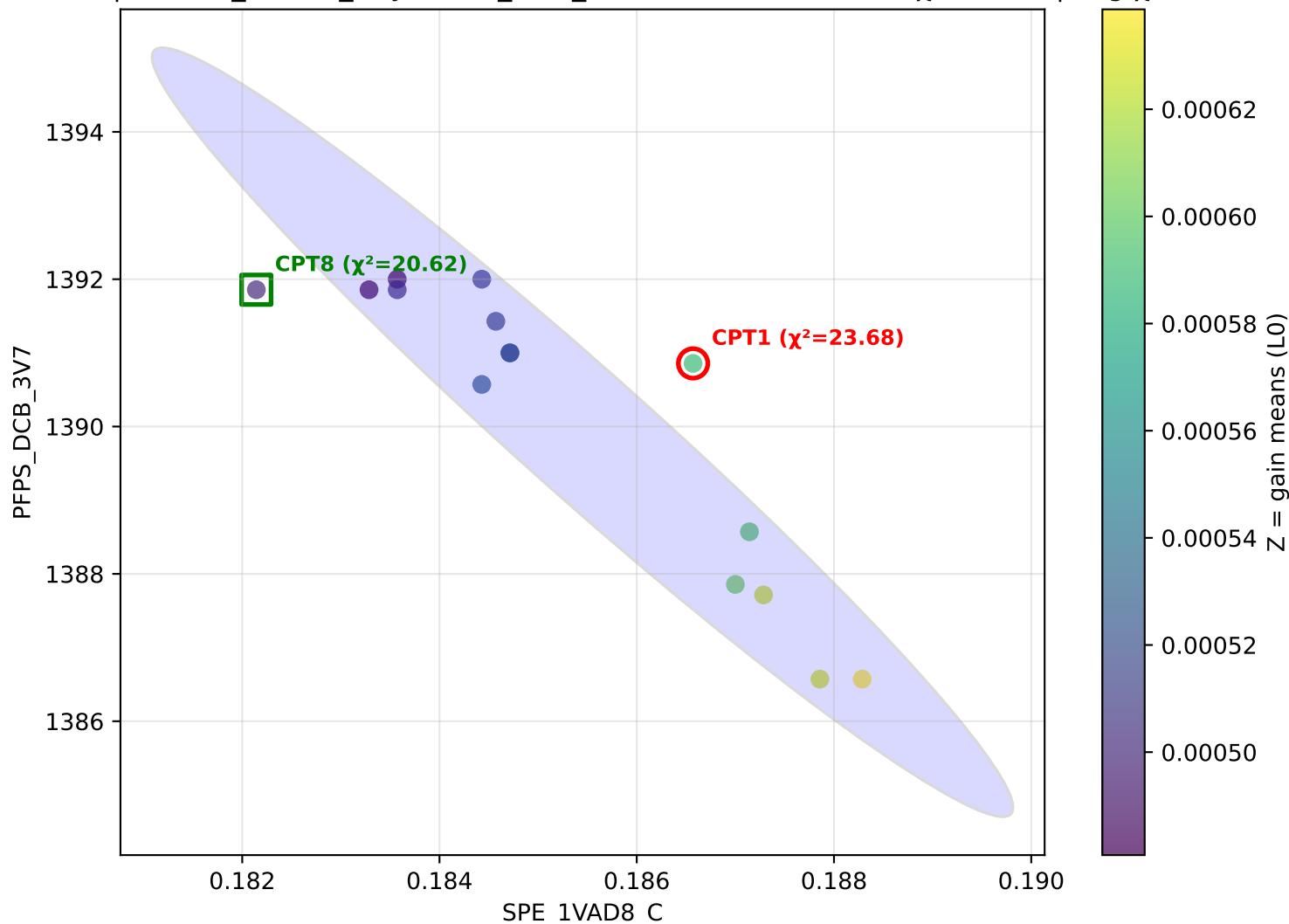




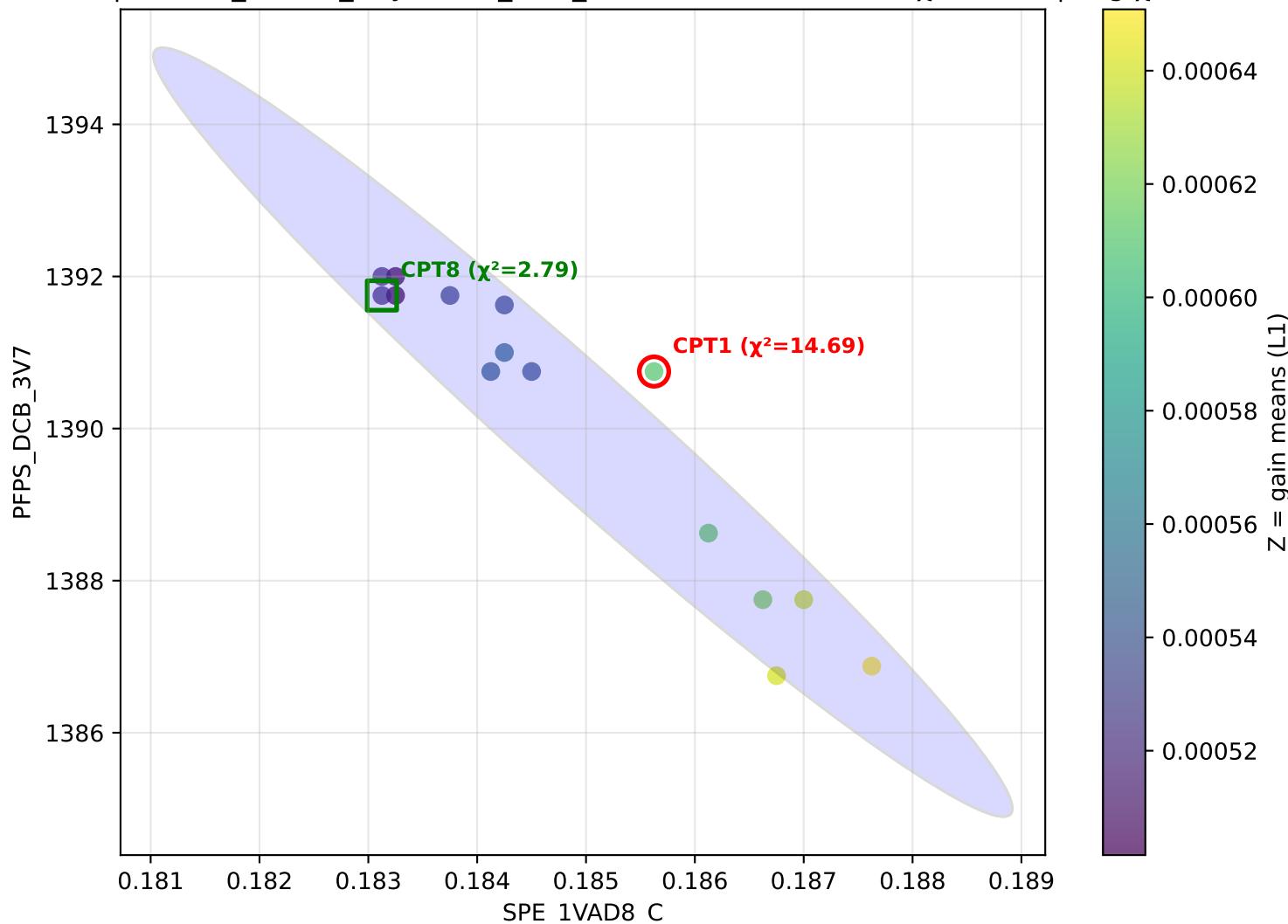


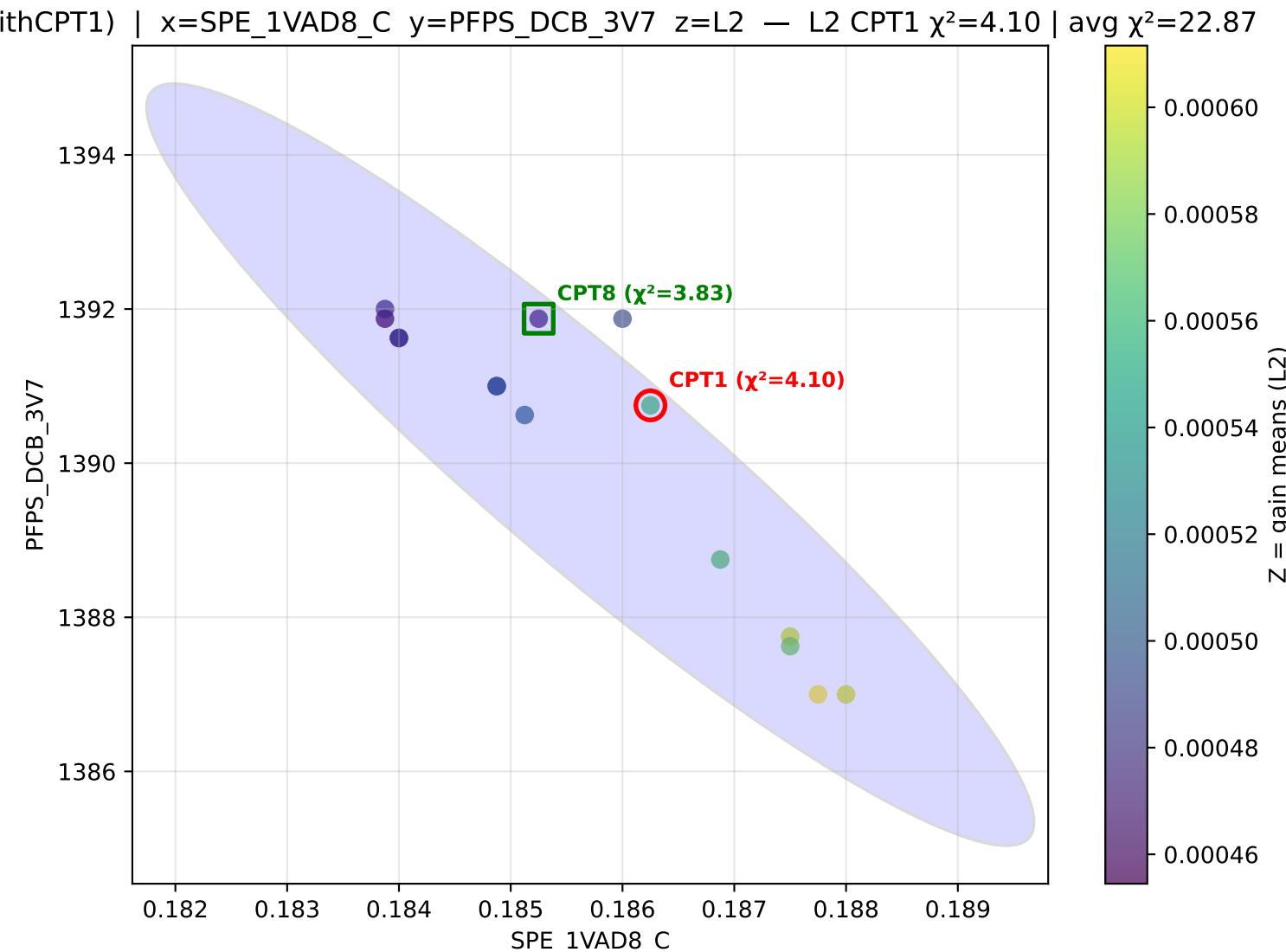


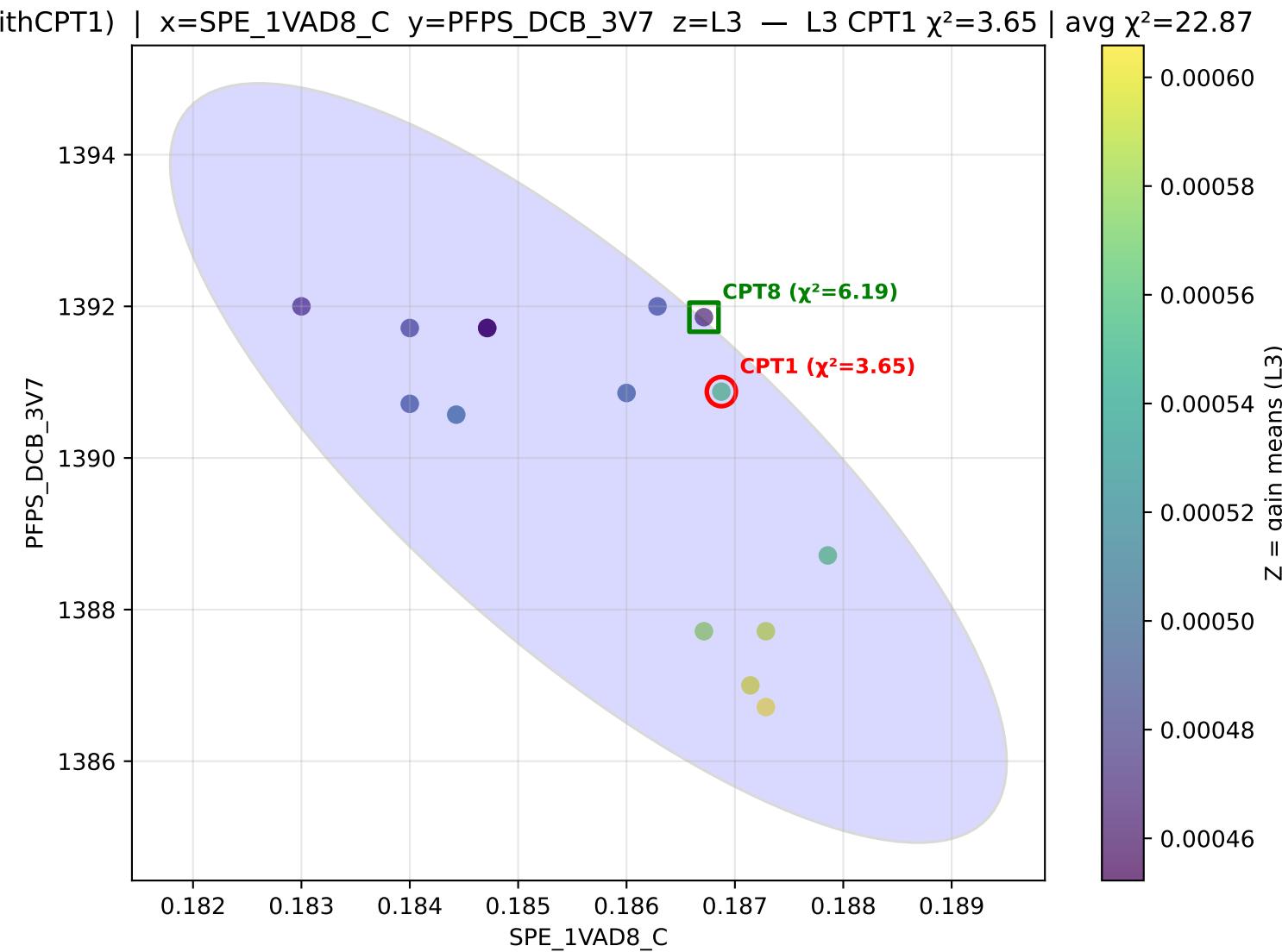
thCPT1) | x=SPE\_1VAD8\_C y=PFPS\_DCB\_3V7 z=L0 — L0 CPT1  $\chi^2=23.68$  | avg  $\chi^2=22.87$



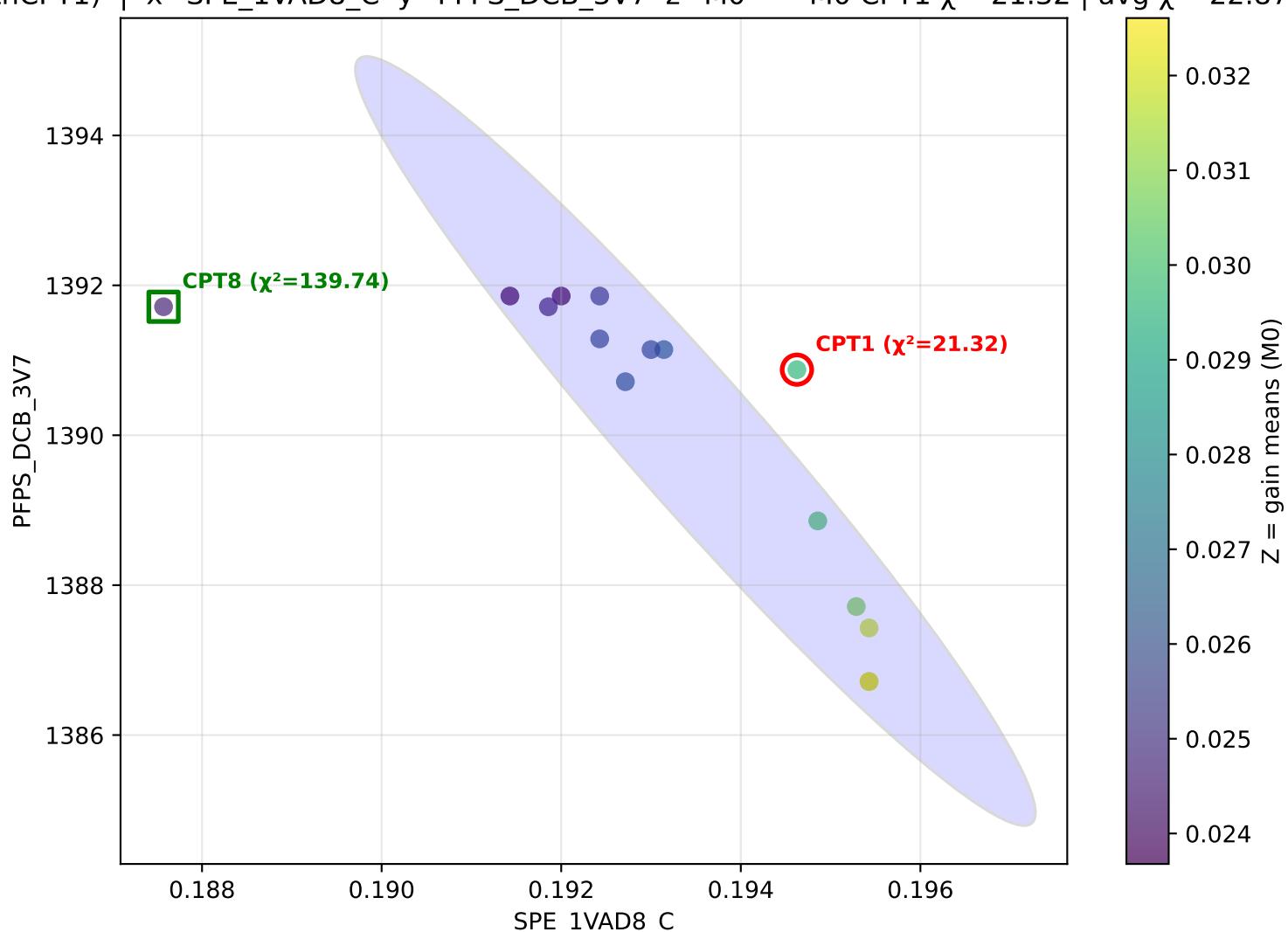
thCPT1) | x=SPE\_1VAD8\_C y=PFPS\_DCB\_3V7 z=L1 — L1 CPT1  $\chi^2=14.69$  | avg  $\chi^2=22.87$



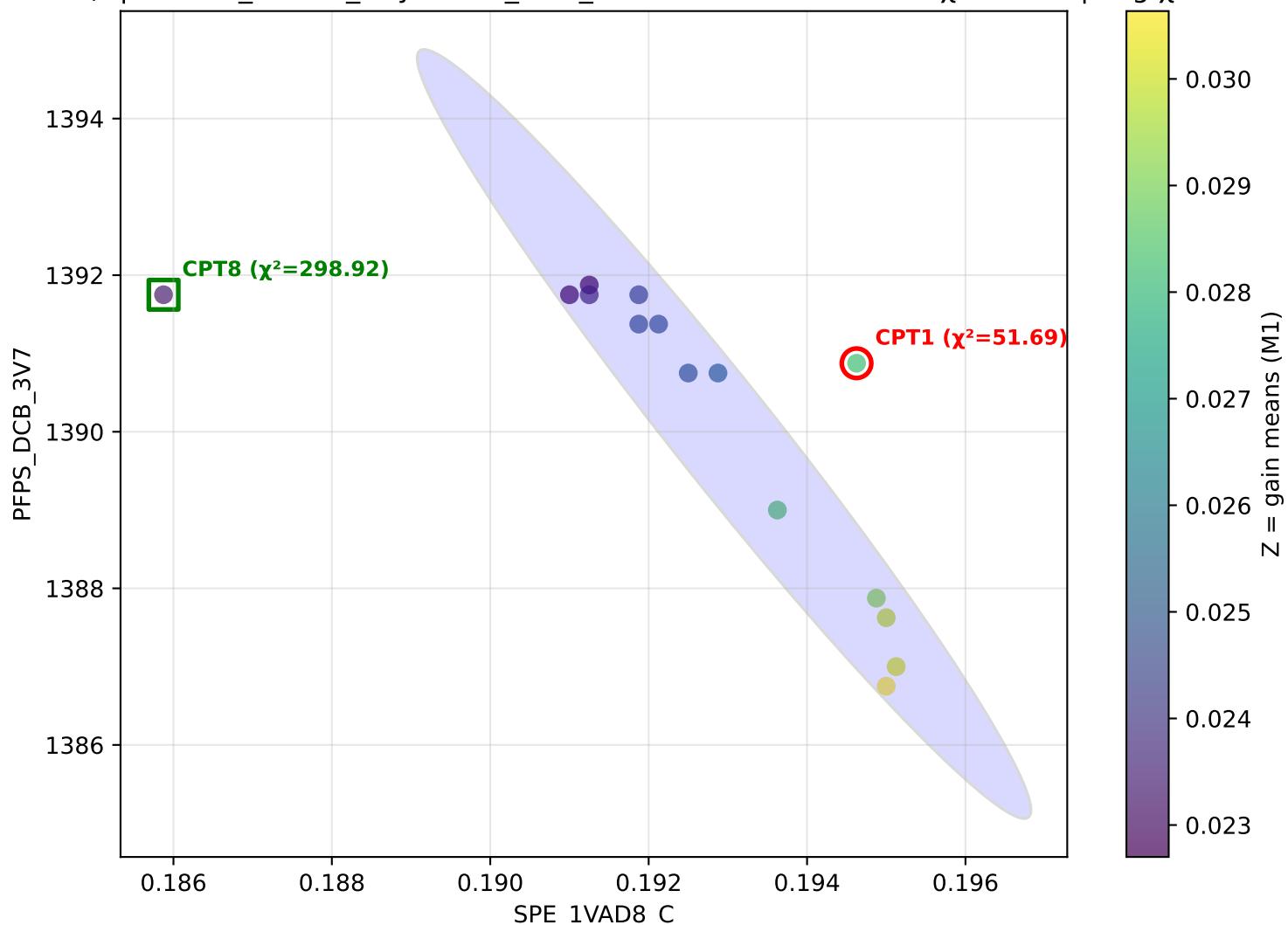




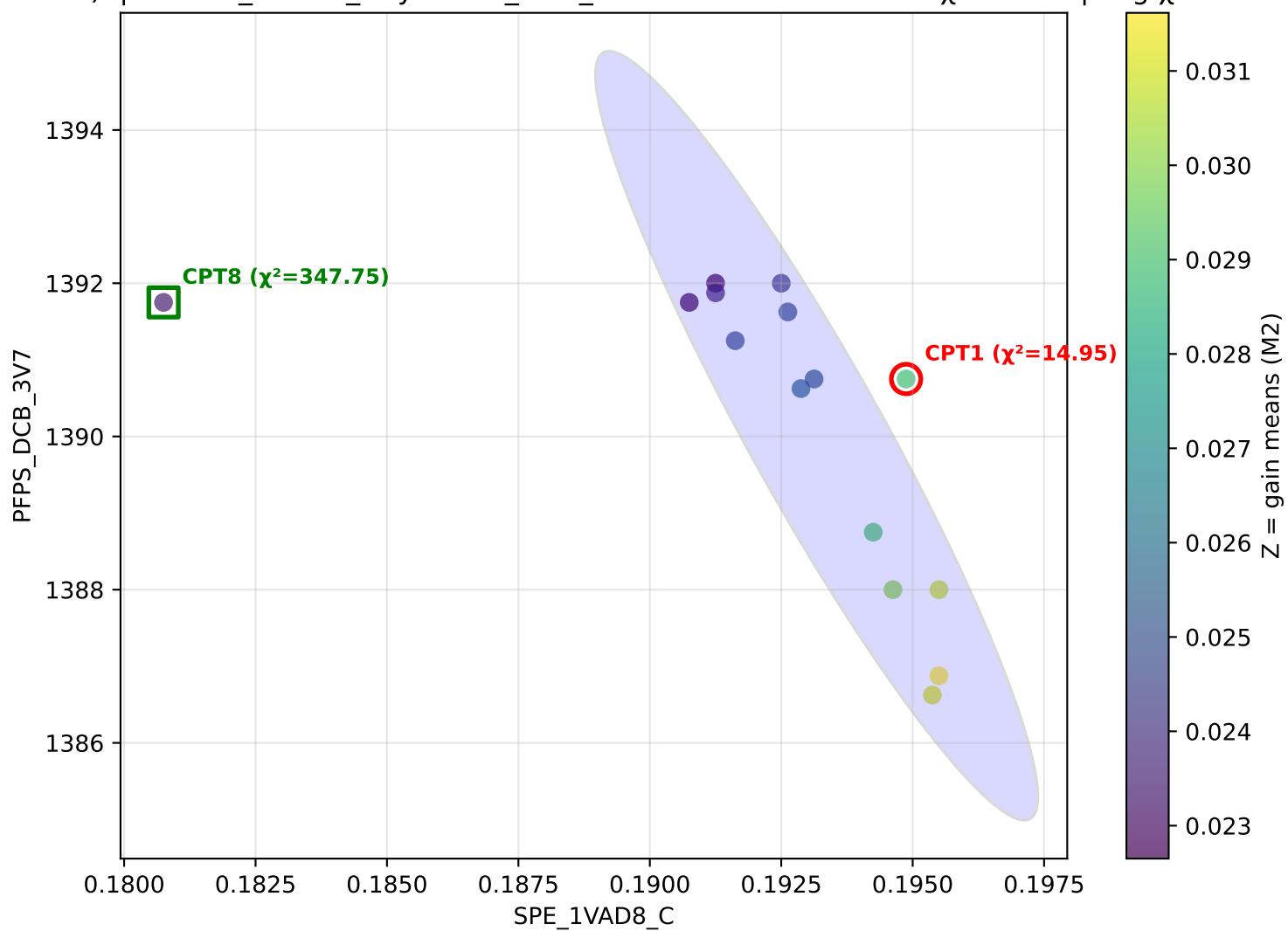
ithCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_DCB\_3V7}$   $z=M0$  — M0 CPT1  $\chi^2=21.32$  | avg  $\chi^2=22.87$



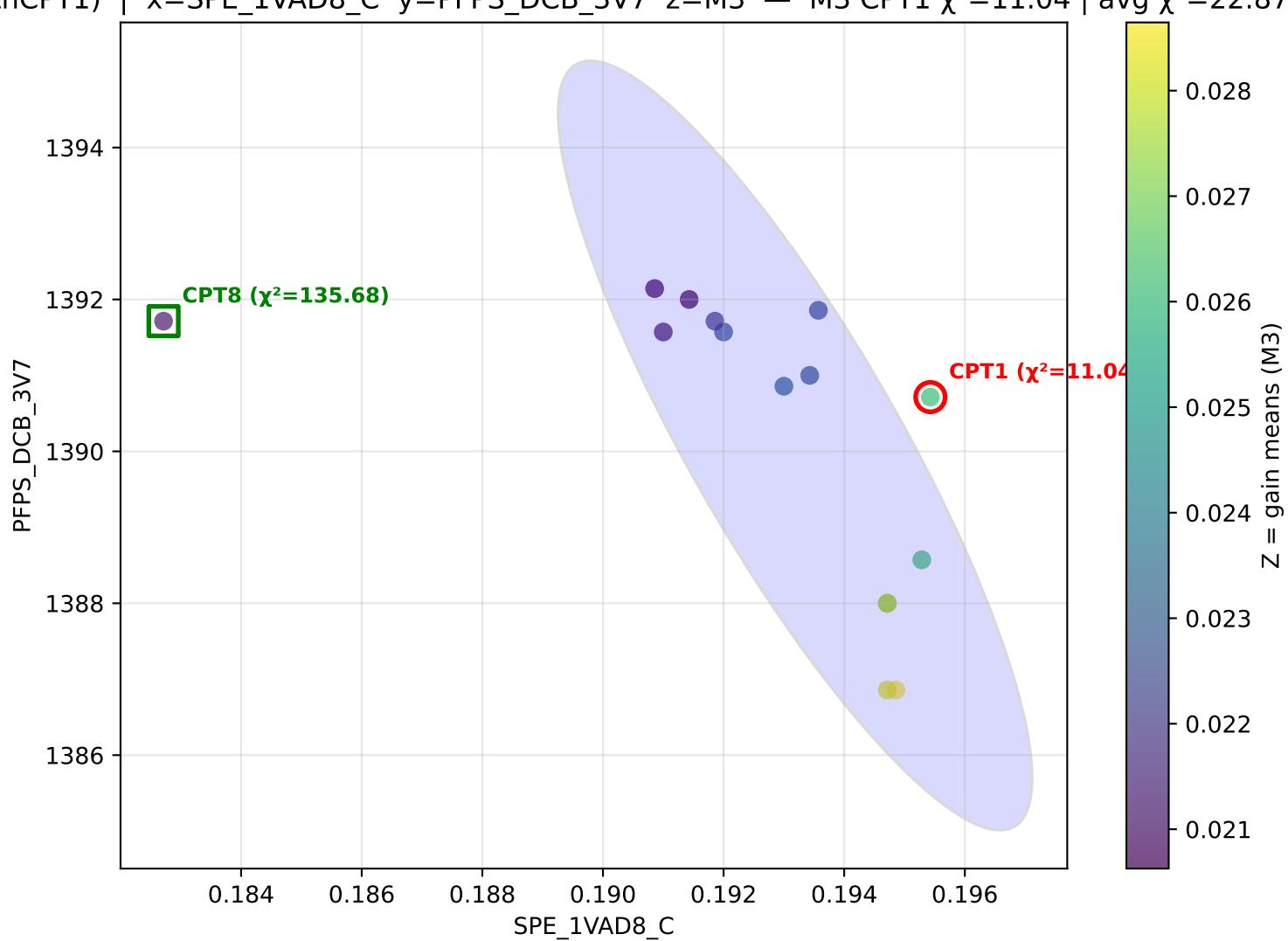
ithCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_DCB\_3V7}$   $z=M1$  — M1 CPT1  $\chi^2=51.69$  | avg  $\chi^2=22.87$



ithCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_DCB\_3V7}$   $z=\text{M2}$  — M2 CPT1  $\chi^2=14.95$  | avg  $\chi^2=22.87$



ithCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_DCB\_3V7}$   $z=\text{M3}$  — M3 CPT1  $\chi^2=11.04$  | avg  $\chi^2=22.87$



Pair: SPE\_1VAD8\_C vs PFPS\_SPE\_N5V5

Average  $\chi^2(\text{CPT1})$  across settings: 22.76

thCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_SPE\_N5V5}$   $z=\text{H0}$  —  $\text{H0 CPT1 } \chi^2=38.23$  | avg  $\chi^2=22.76$

PFPS\_SPE\_N5V5

1395

1390

1385

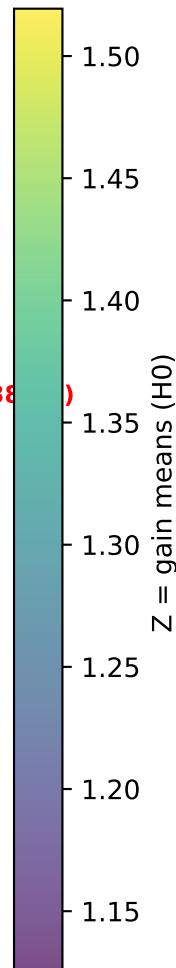
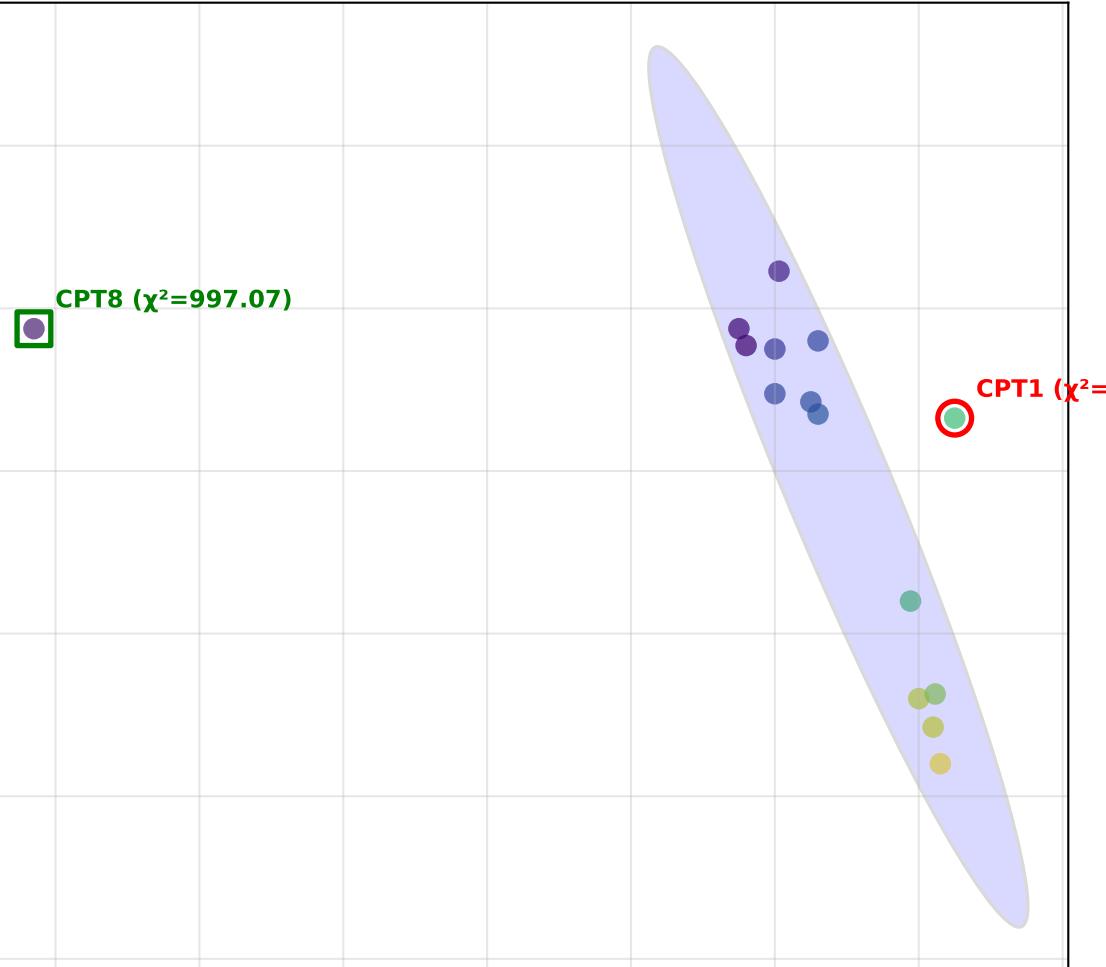
1380

1375

1370

0.1850 0.1875 0.1900 0.1925 0.1950 0.1975 0.2000 0.2025

SPE\_1VAD8\_C



Z = gain means (H0)

thCPT1) | x=SPE\_1VAD8\_C y=PFPS\_SPE\_N5V5 z=H1 — H1 CPT1  $\chi^2=48.07$  | avg  $\chi^2=22.76$

PFPS\_SPE\_N5V5

0.186 0.188 0.190 0.192 0.194 0.196 0.198 0.200 0.202

SPE\_1VAD8\_C

1395

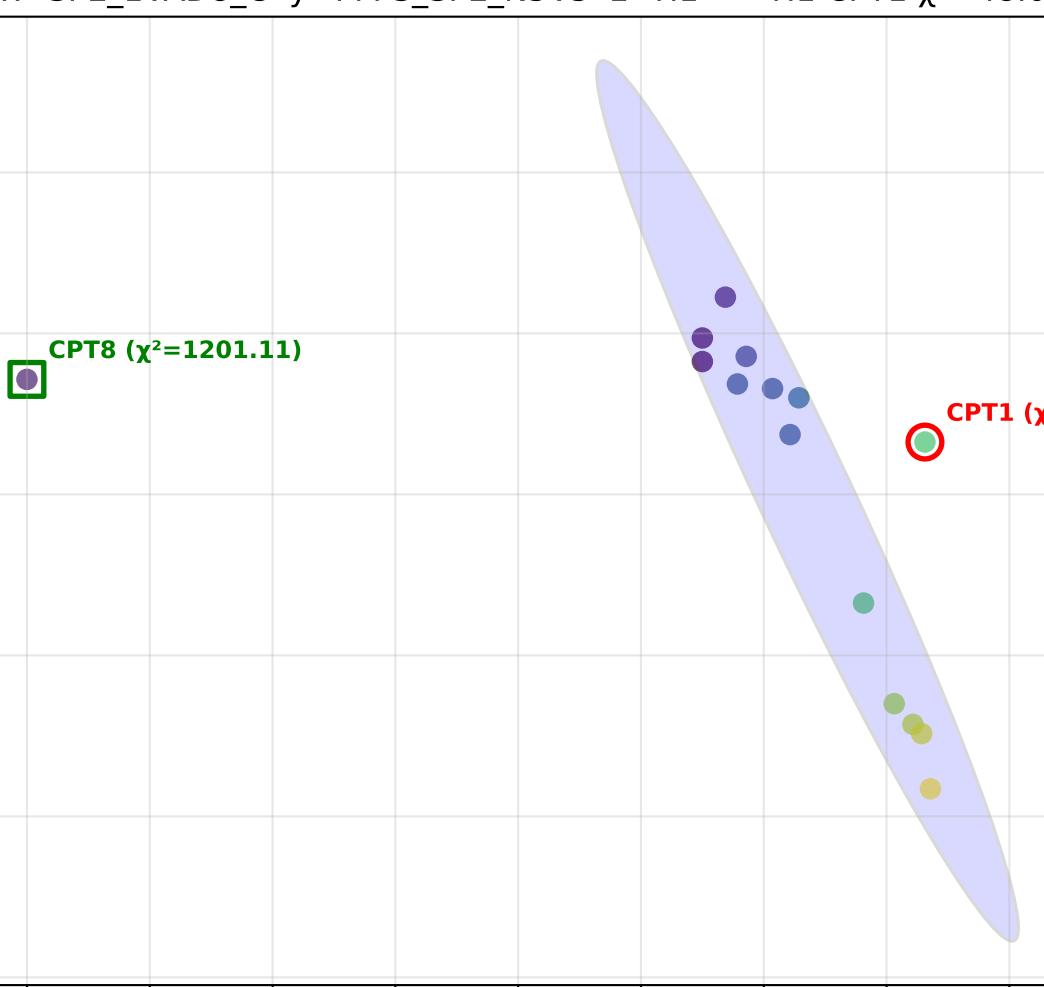
1390

1385

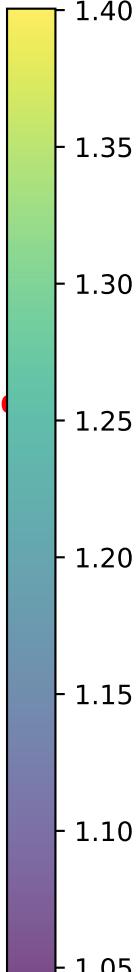
1380

1375

1370



Z = gain means (H1)



thCPT1) | x=SPE\_1VAD8\_C y=PFPS\_SPE\_N5V5 z=H2 — H2 CPT1  $\chi^2=27.87$  | avg  $\chi^2=22.76$

PFPS\_SPE\_N5V5

1395

1390

1385

1380

1375

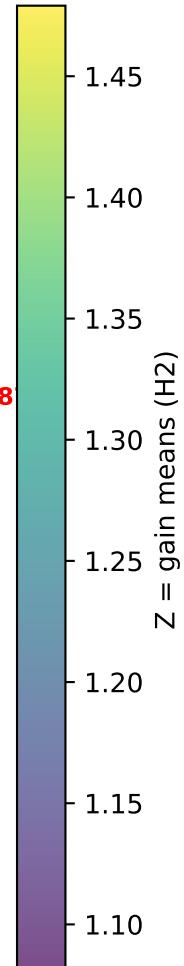
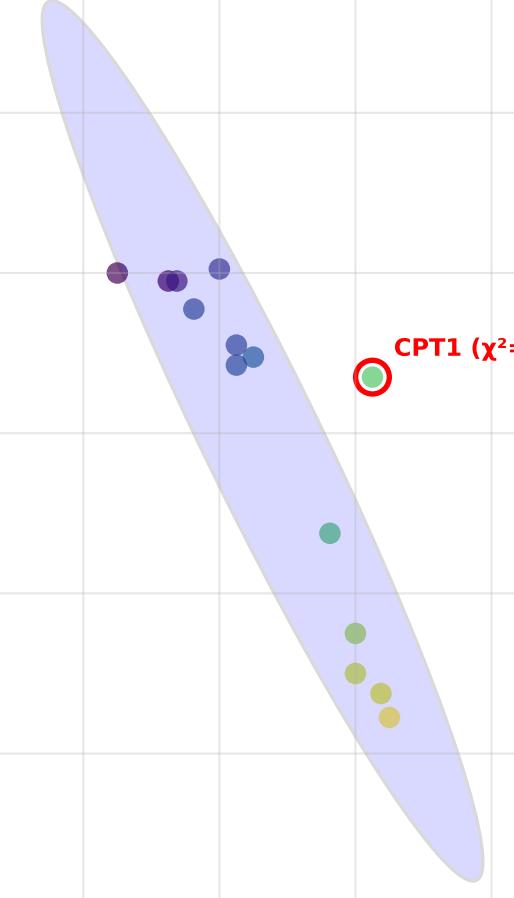
1370

SPE\_1VAD8\_C

0.188 0.190 0.192 0.194 0.196 0.198 0.200 0.202

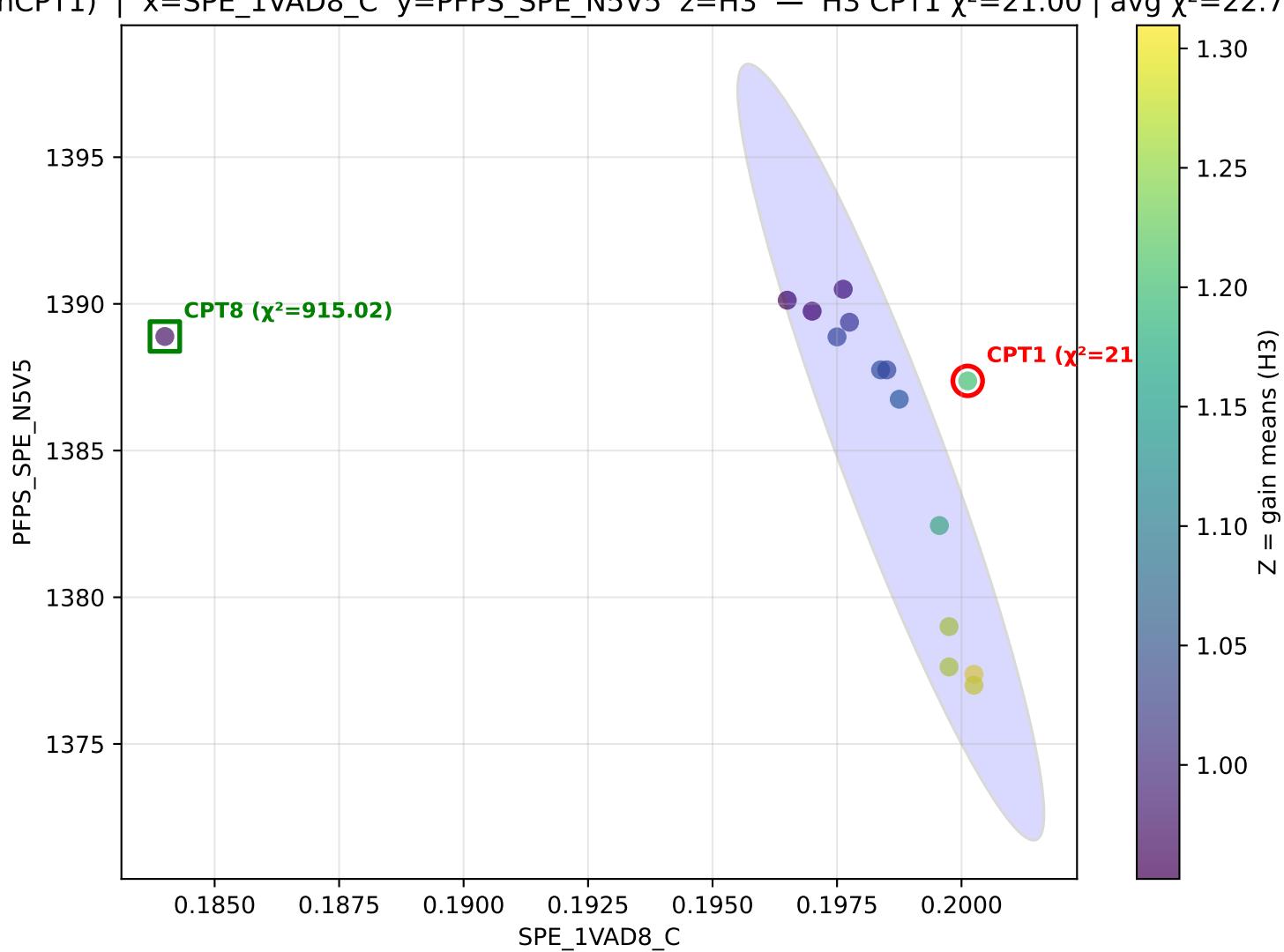


CPT8 ( $\chi^2=732.36$ )

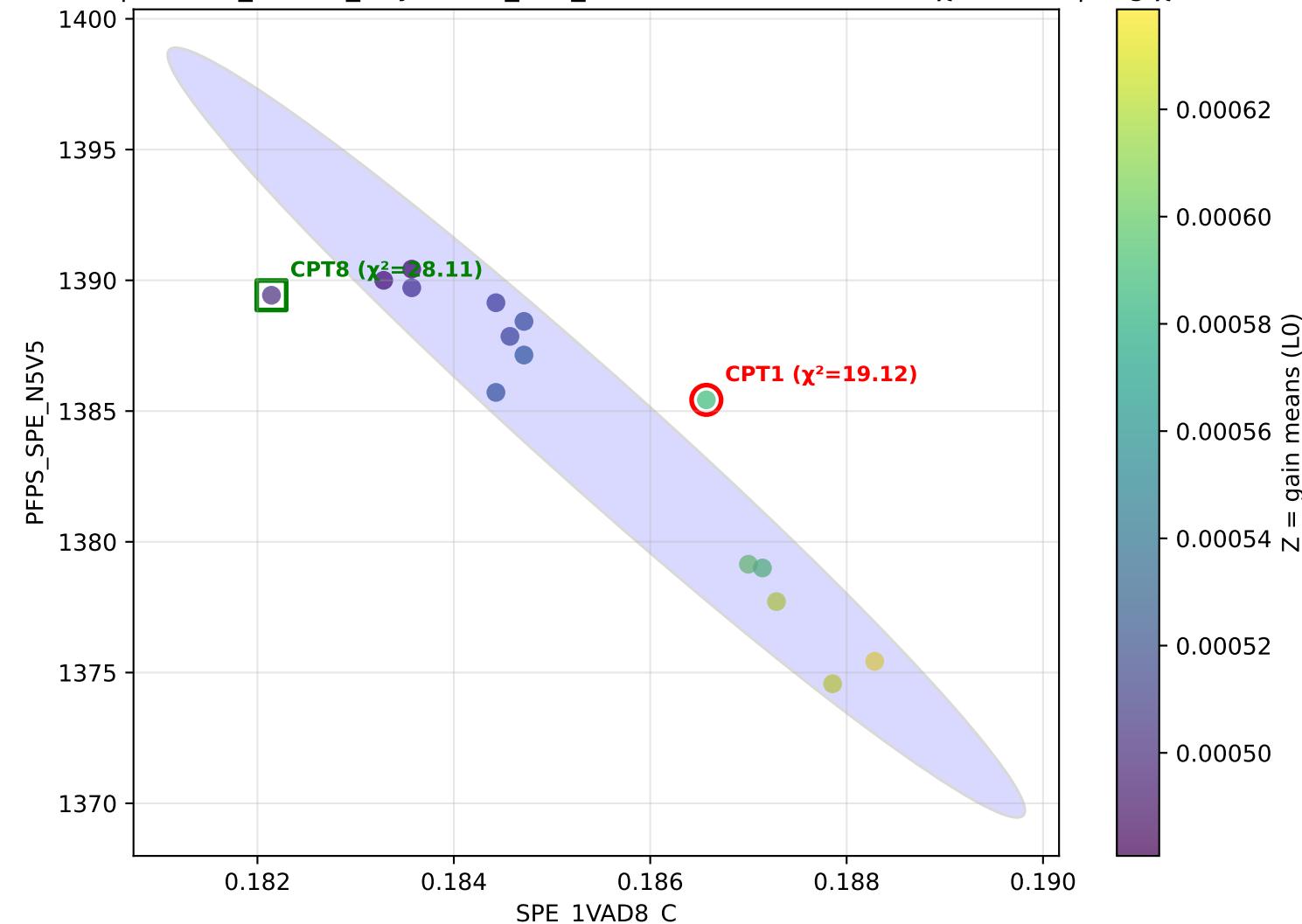


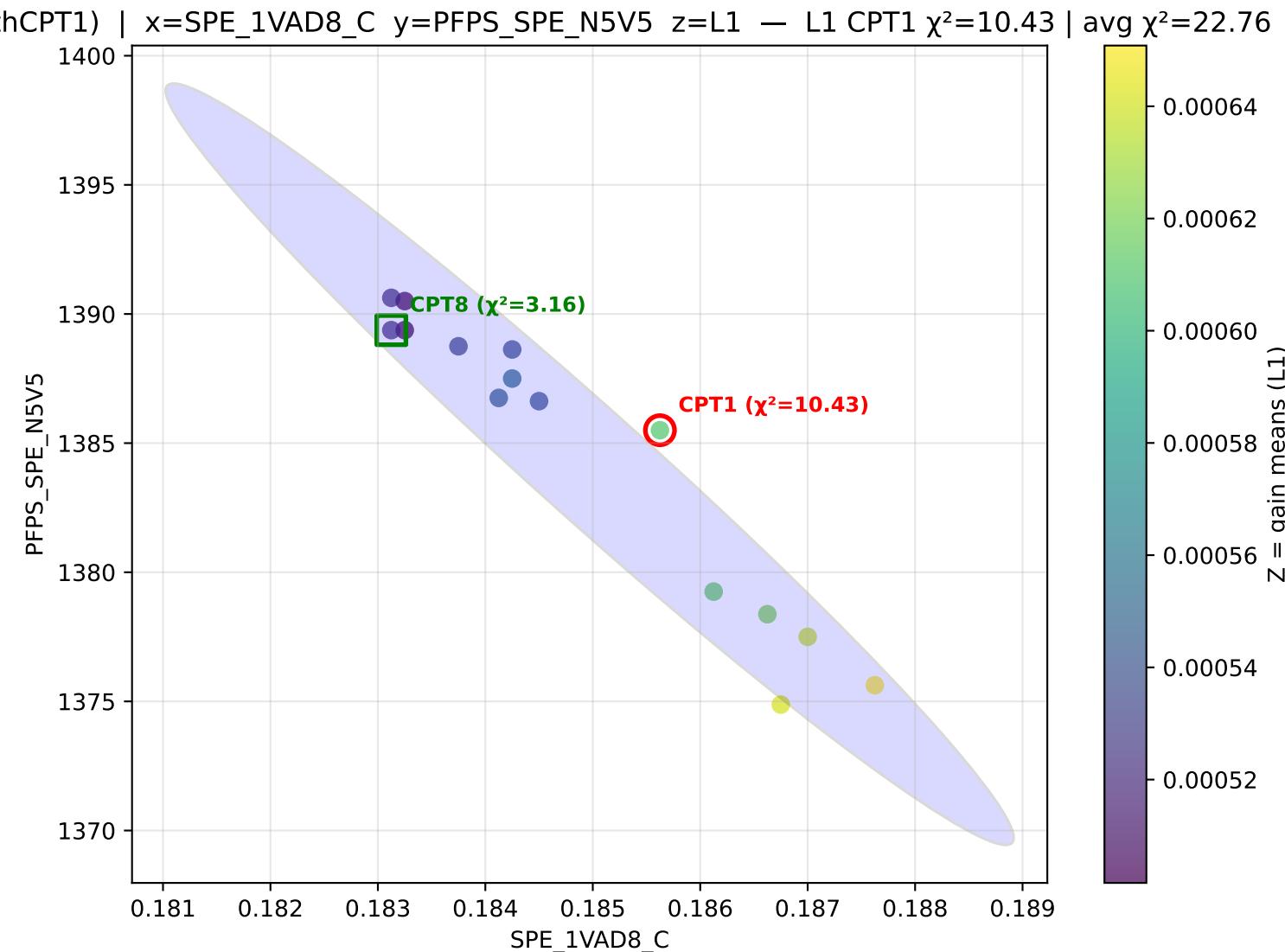
thCPT1) | x=SPE\_1VAD8\_C y=PFPS\_SPE\_N5V5 z=H3 — H3 CPT1  $\chi^2=21.00$  | avg  $\chi^2=22.76$

PFPS\_SPE\_N5V5



hCPT1 |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_SPE\_N5V5}$   $z=L0$  — L0 CPT1  $\chi^2=19.12$  | avg  $\chi^2=22.76$





thCPT1) | x=SPE\_1VAD8\_C y=PFPS\_SPE\_N5V5 z=L2 — L2 CPT1  $\chi^2=4.24$  | avg  $\chi^2=22.76$

PFPS\_SPE\_N5V5

1395

1390

1385

1380

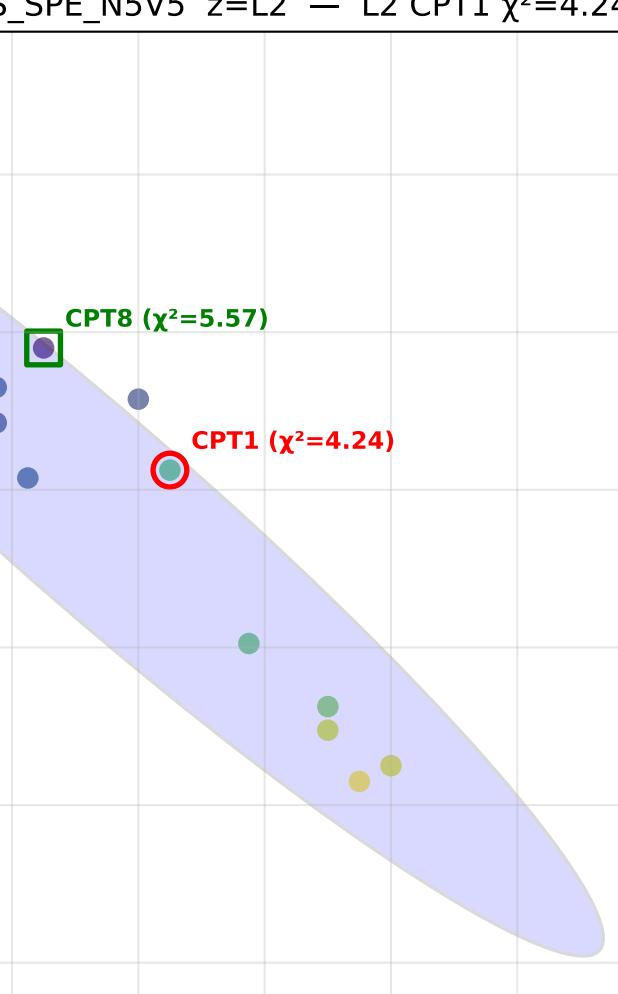
1375

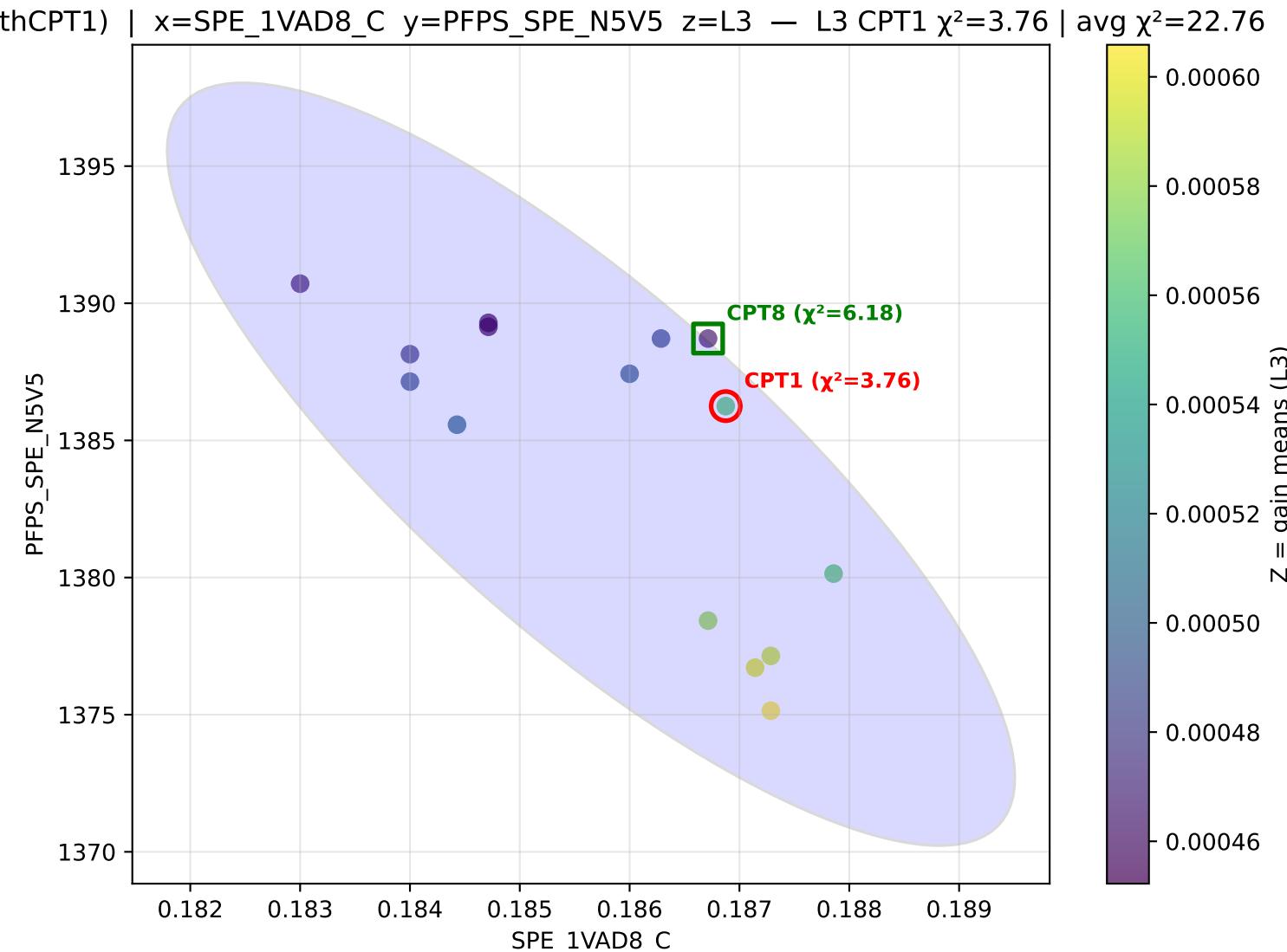
1370

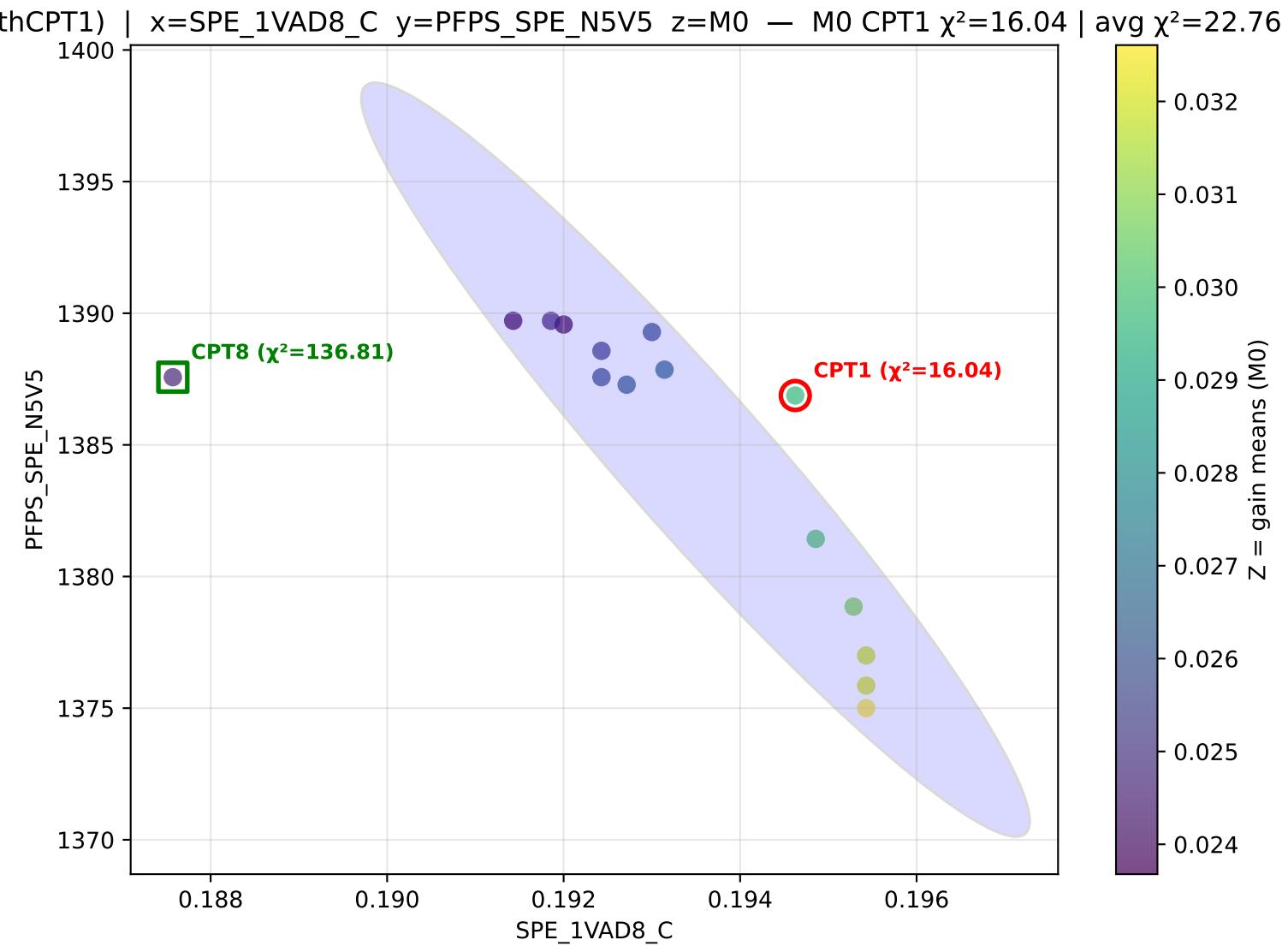
SPE\_1VAD8\_C

0.182 0.183 0.184 0.185 0.186 0.187 0.188 0.189

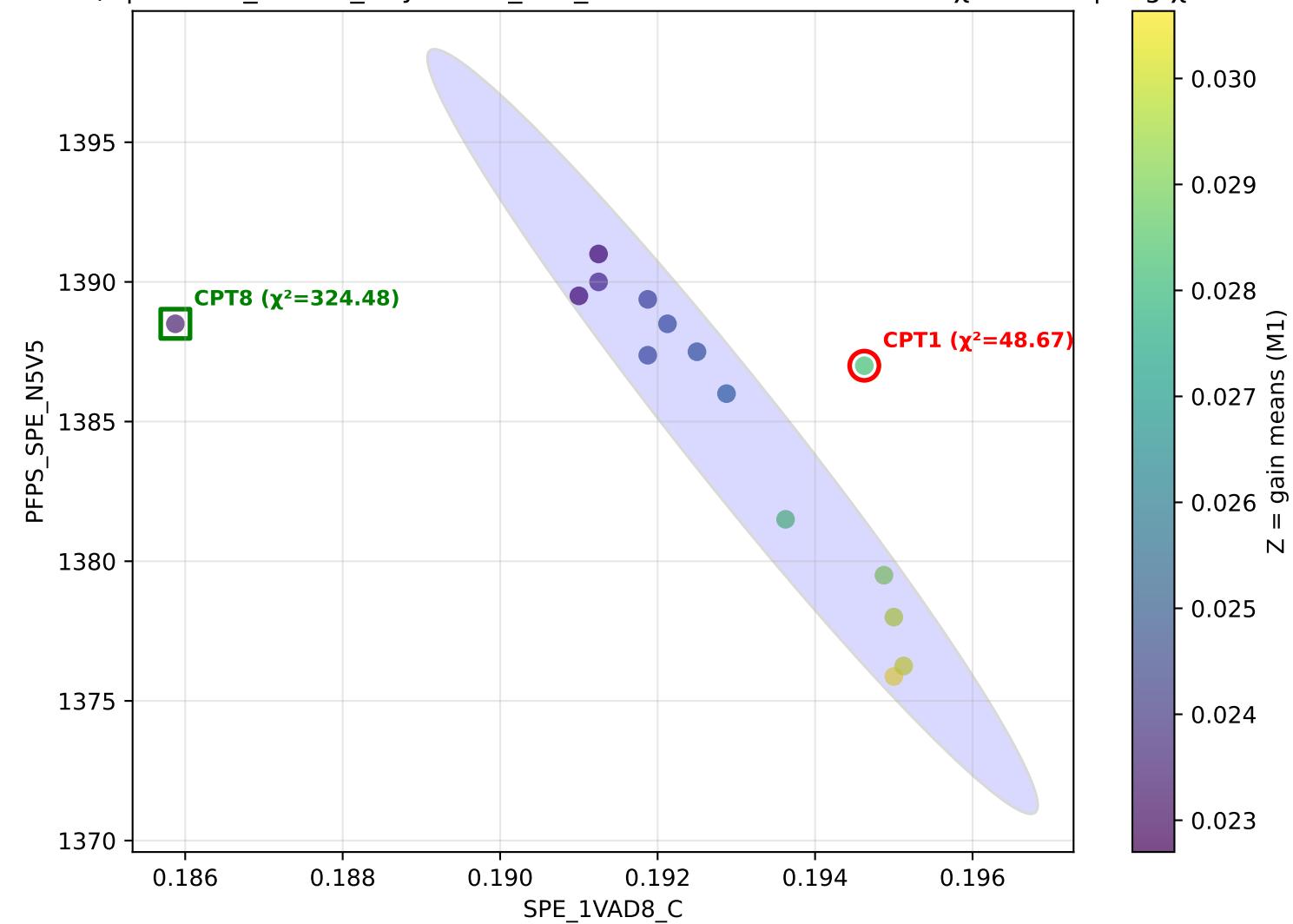
Z = gain means (L2)



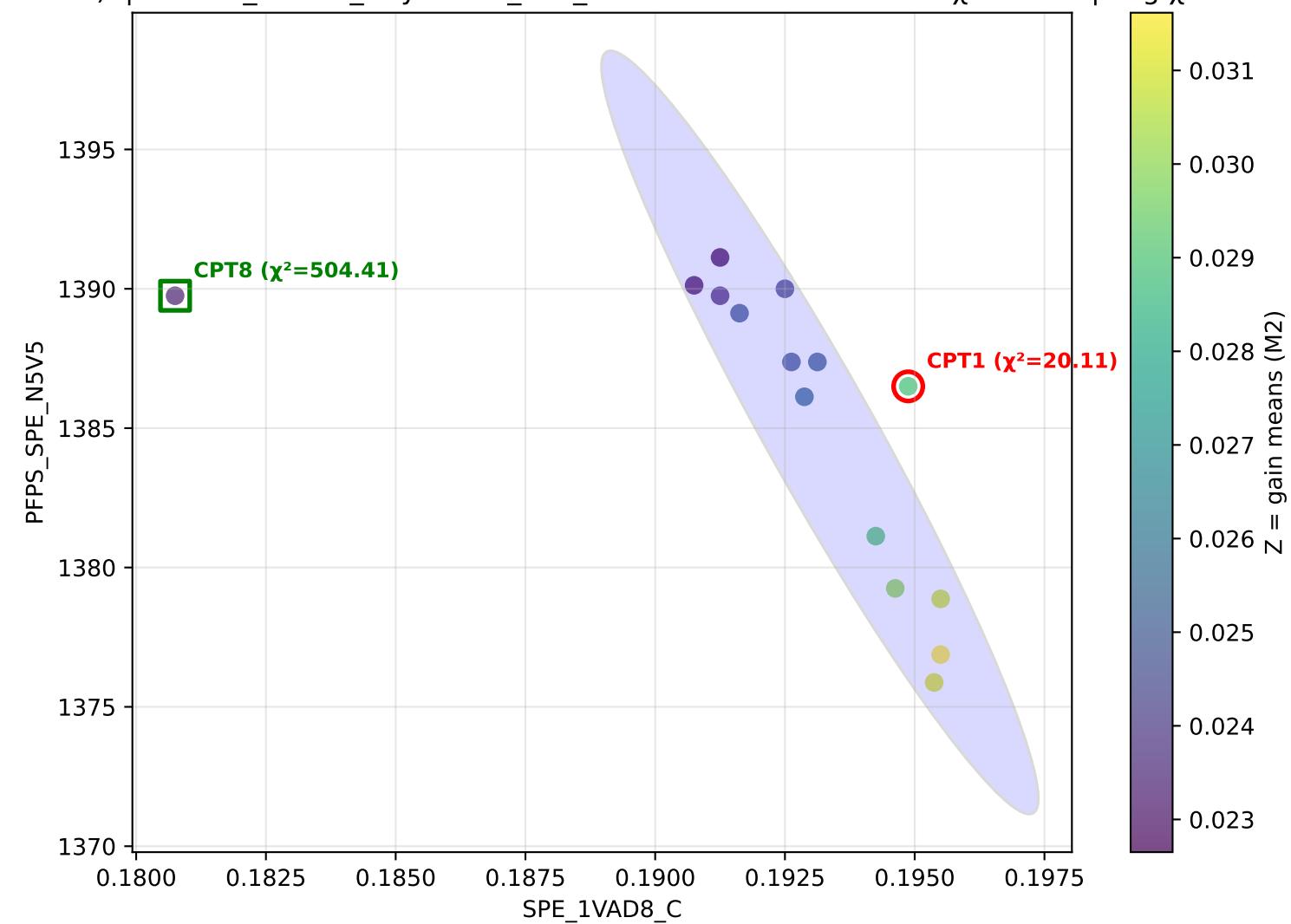


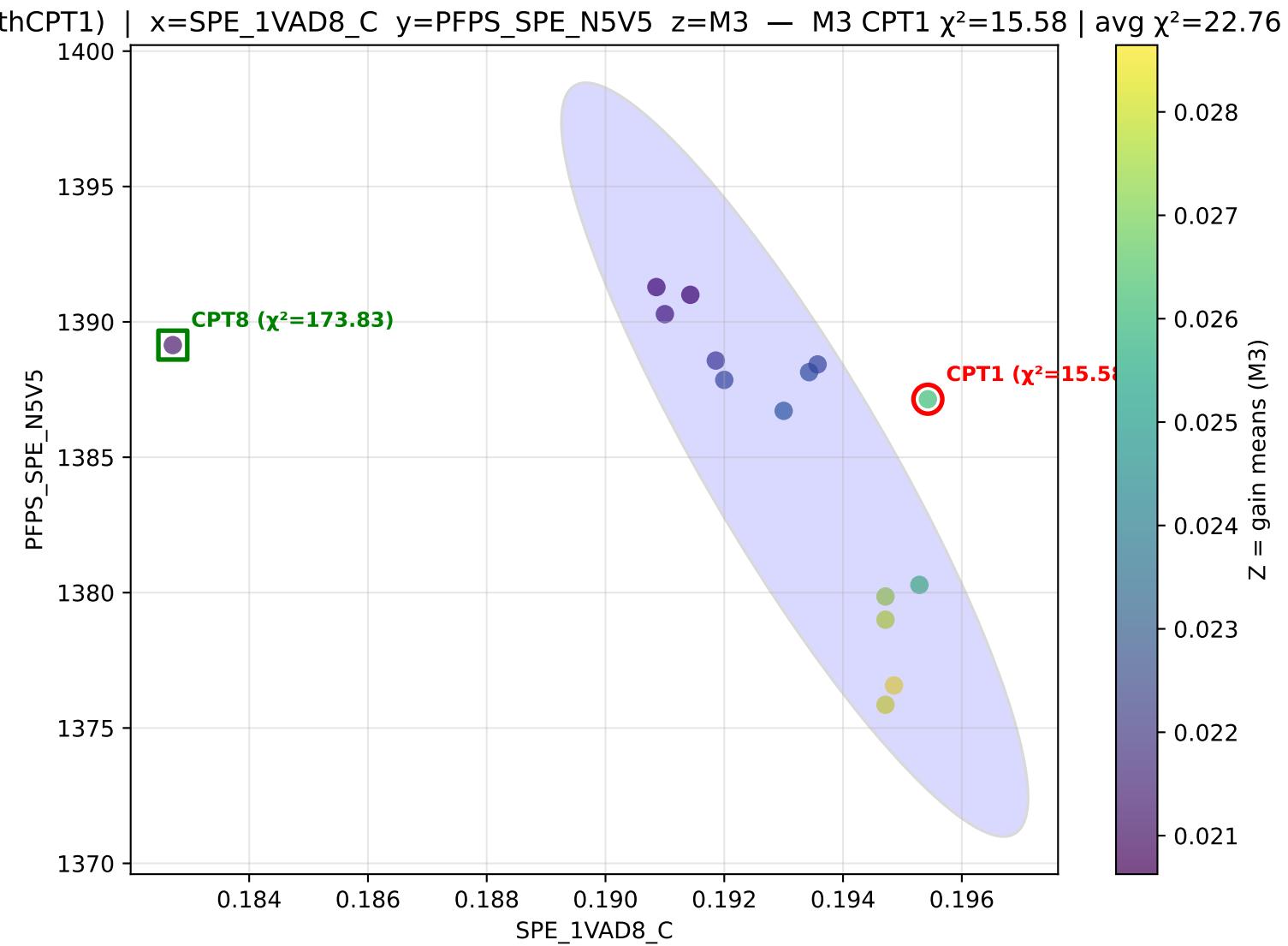


thCPT1) | x=SPE\_1VAD8\_C y=PFPS\_SPE\_N5V5 z=M1 — M1 CPT1  $\chi^2=48.67$  | avg  $\chi^2=22.76$



thCPT1) | x=SPE\_1VAD8\_C y=PFPS\_SPE\_N5V5 z=M2 — M2 CPT1  $\chi^2=20.11$  | avg  $\chi^2=22.76$

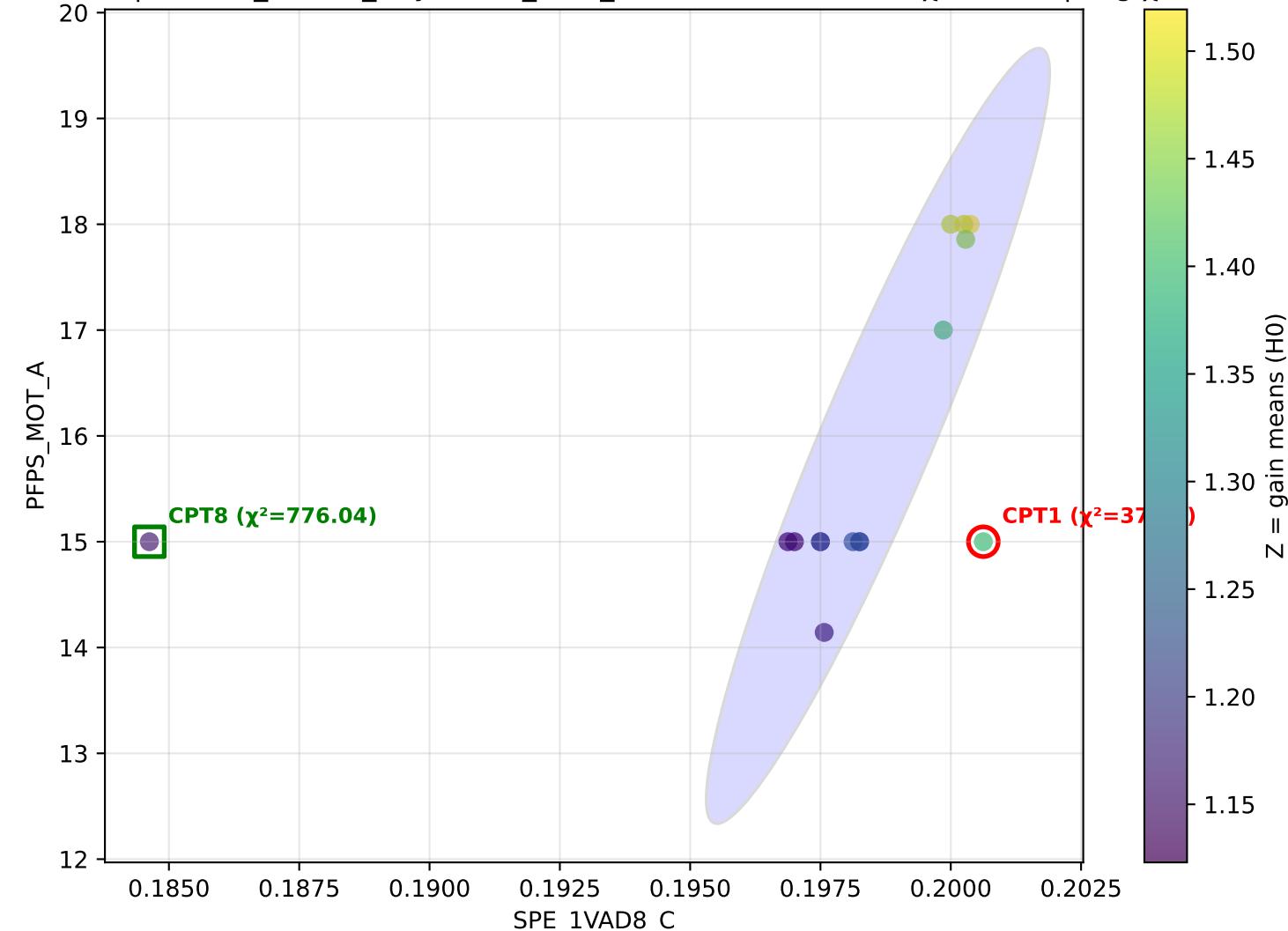


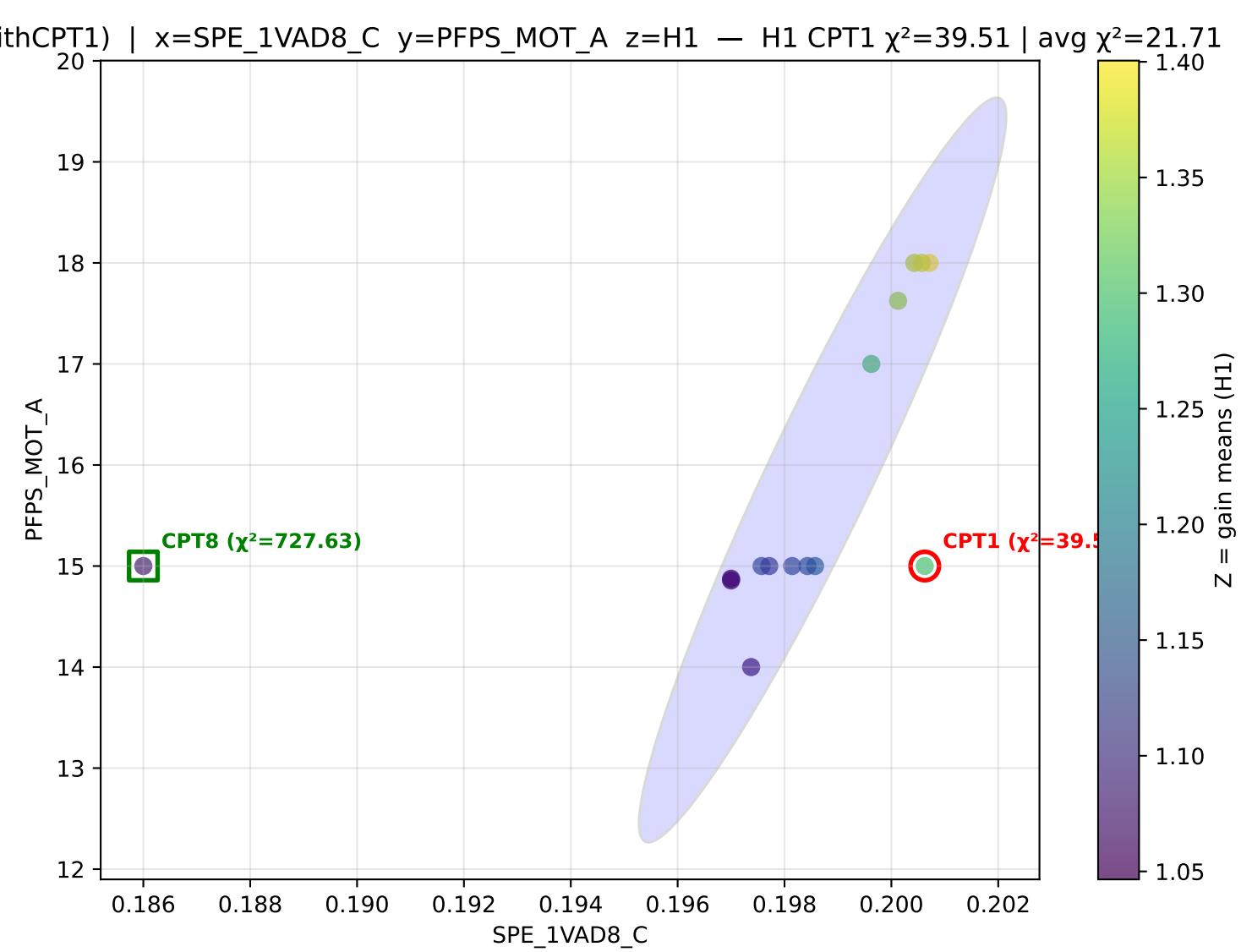


Pair: SPE\_1VAD8\_C vs PFPS\_MOT\_A

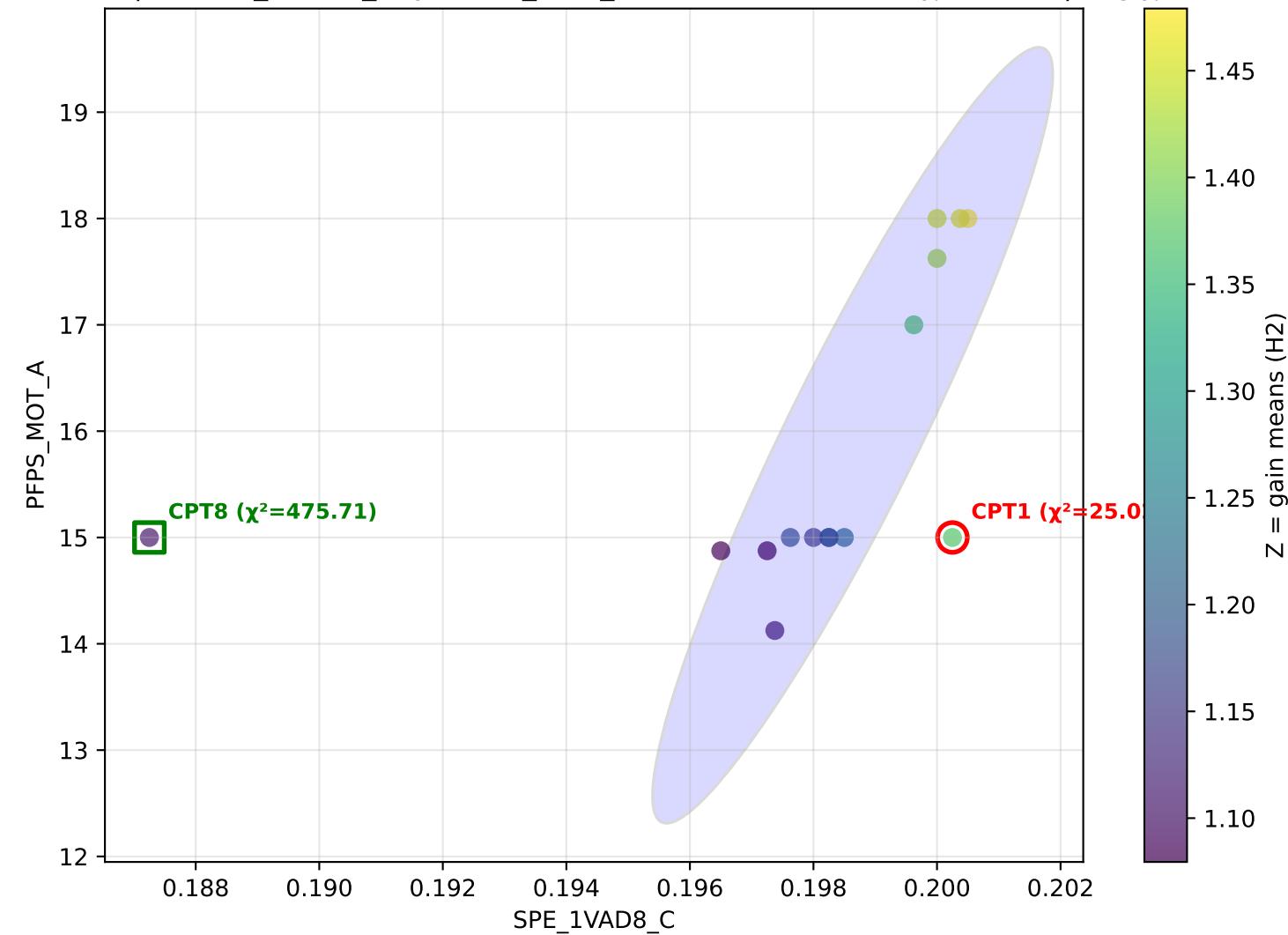
Average  $\chi^2$ (CPT1) across settings: 21.71

ithCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_MOT\_A}$   $z=H_0$  —  $H_0$  CPT1  $\chi^2=37.31$  | avg  $\chi^2=21.71$

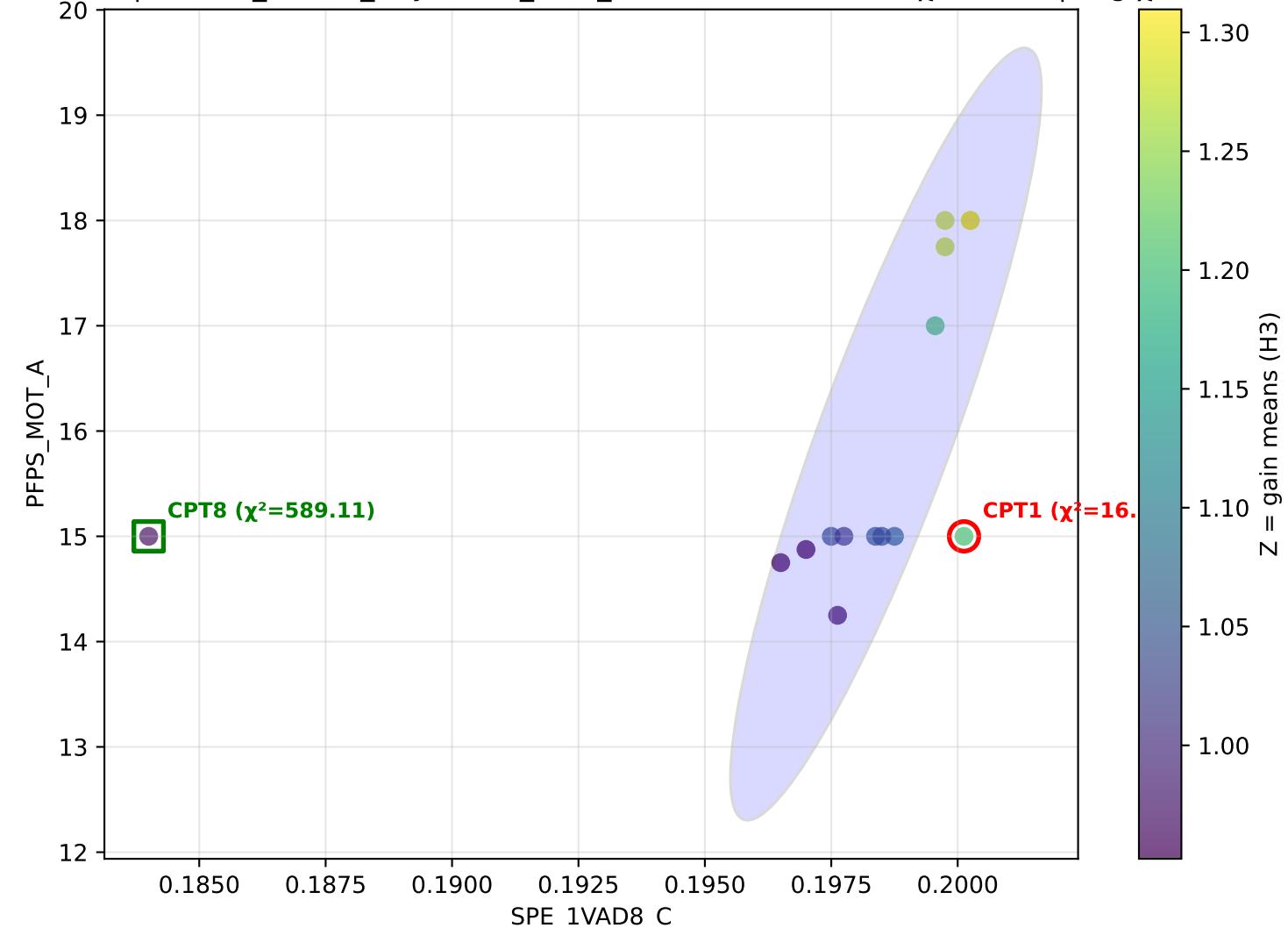




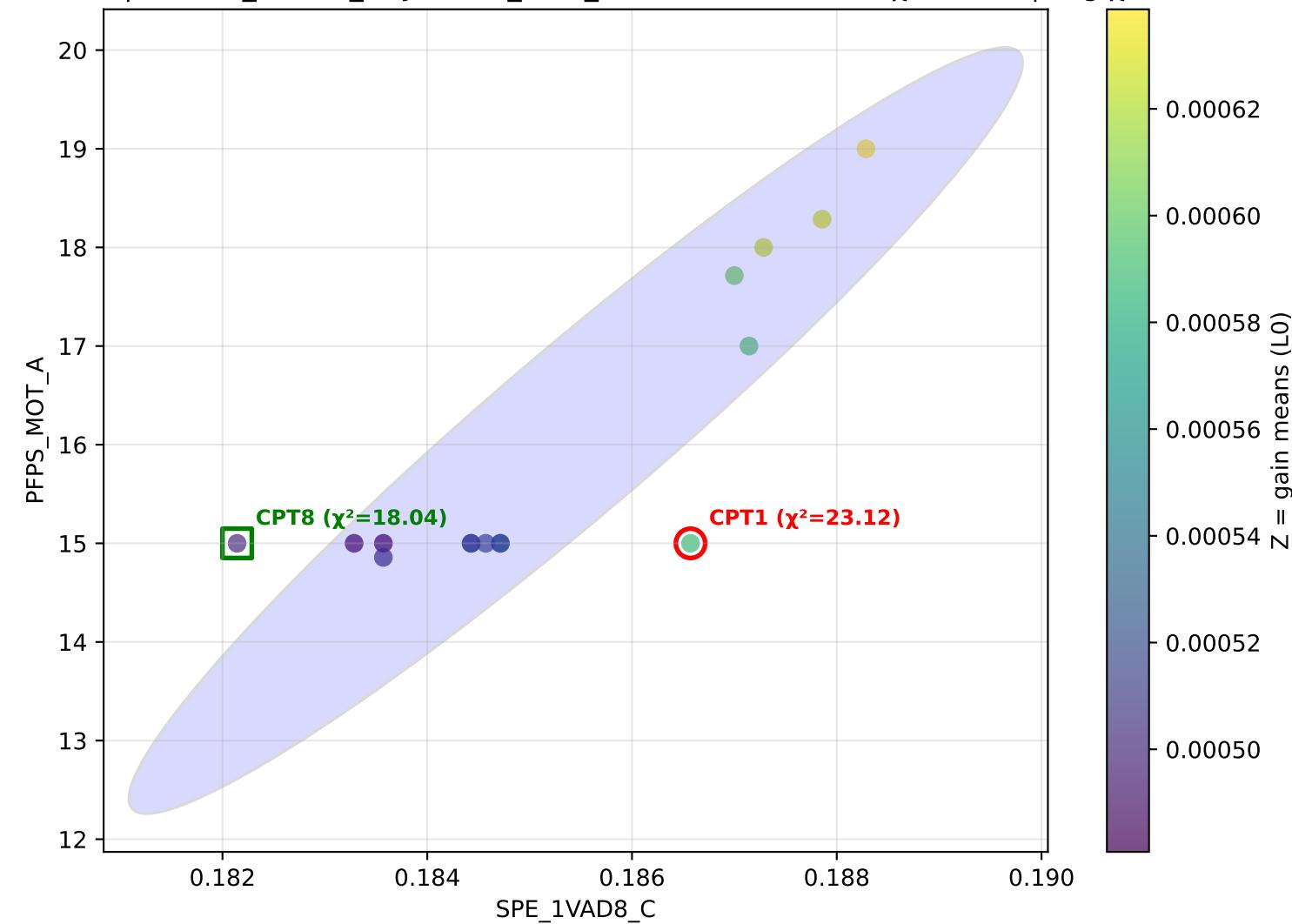
(thCPT1) |  $x=\text{SPE\_1VAD8\_C}$   $y=\text{PFPS\_MOT\_A}$   $z=\text{H2}$  — H2 CPT1  $\chi^2=25.02$  | avg  $\chi^2=21.71$

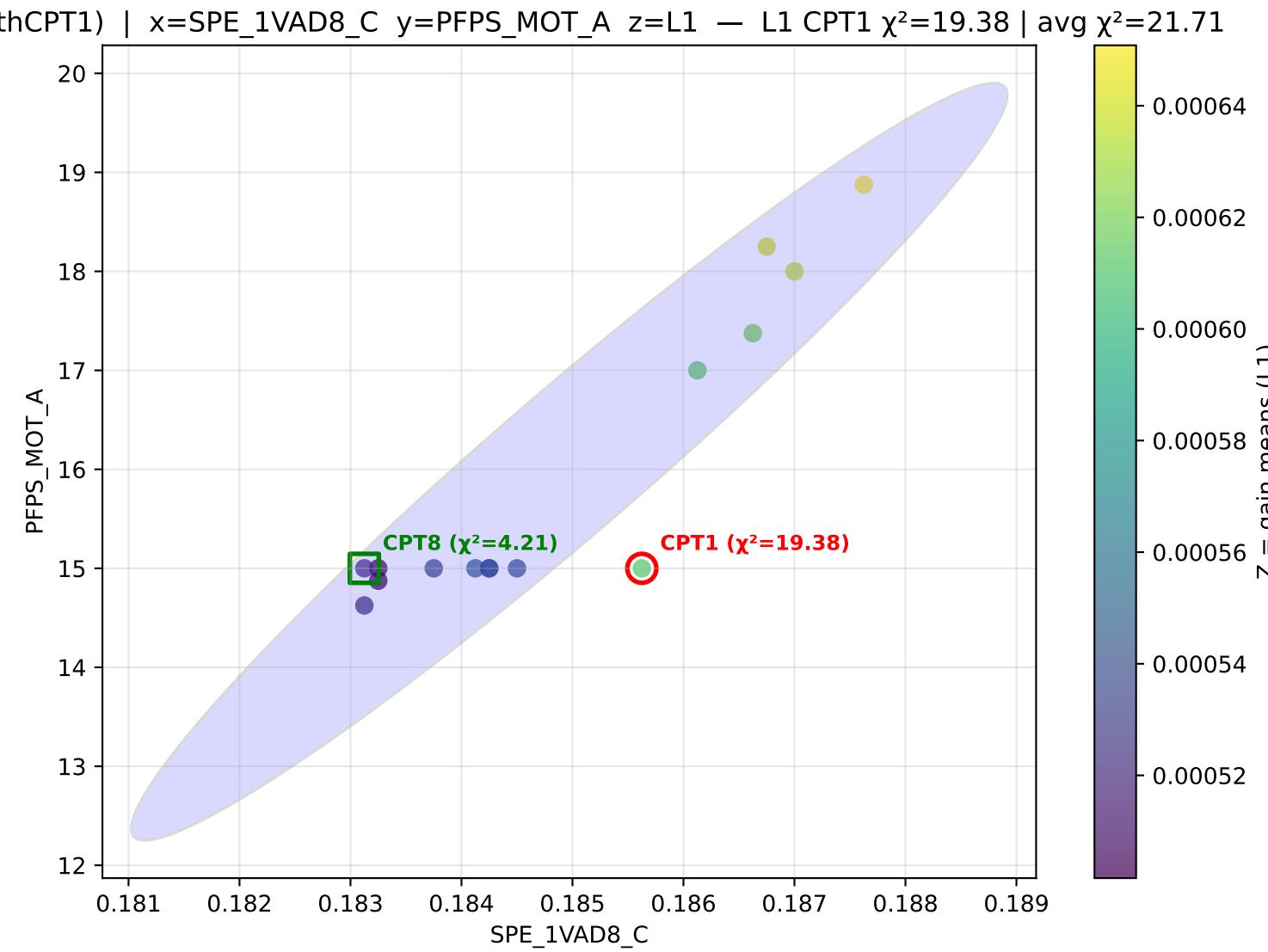


ithCPT1) | x=SPE\_1VAD8\_C y=PFPS\_MOT\_A z=H3 — H3 CPT1  $\chi^2=16.21$  | avg  $\chi^2=21.71$

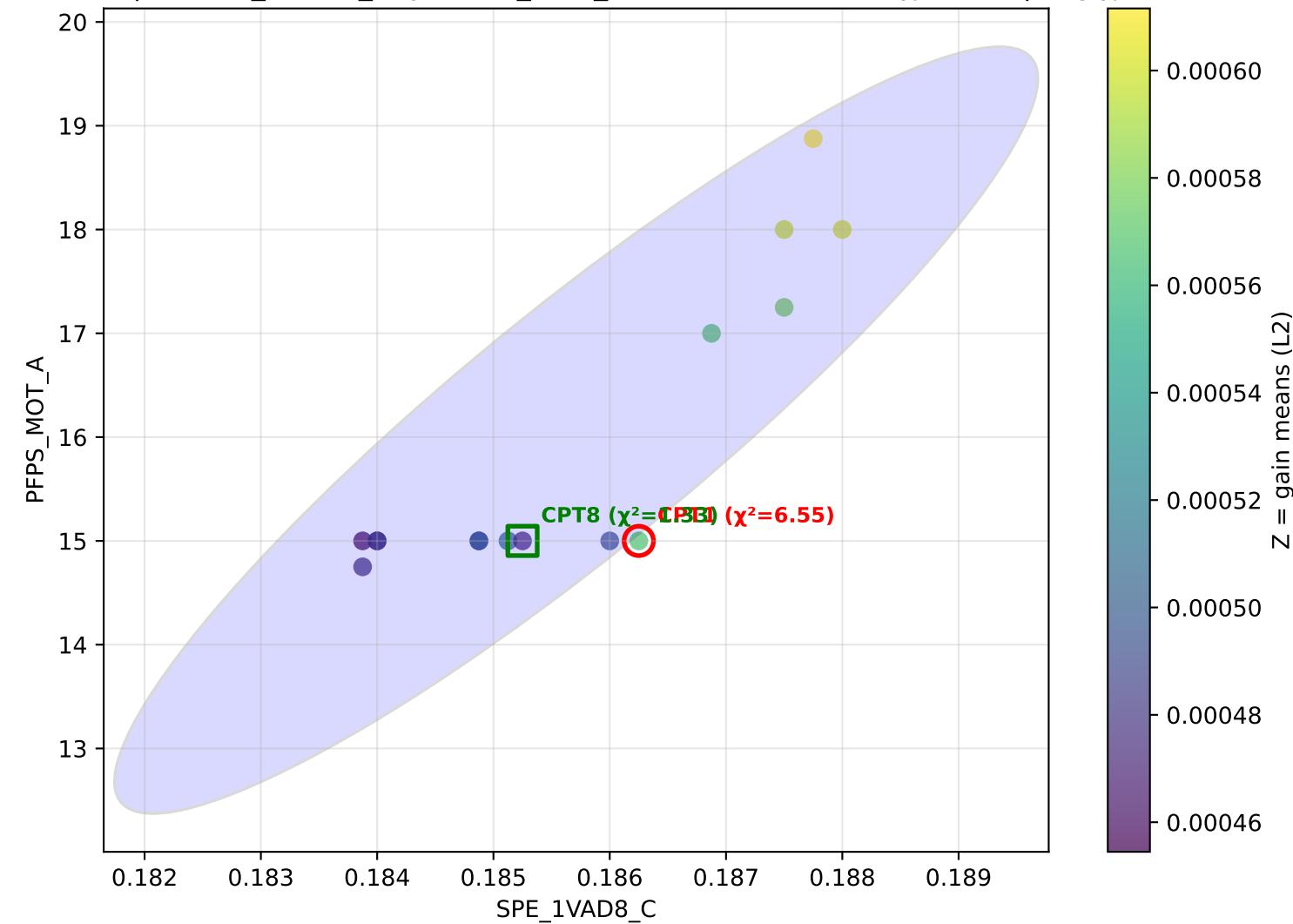


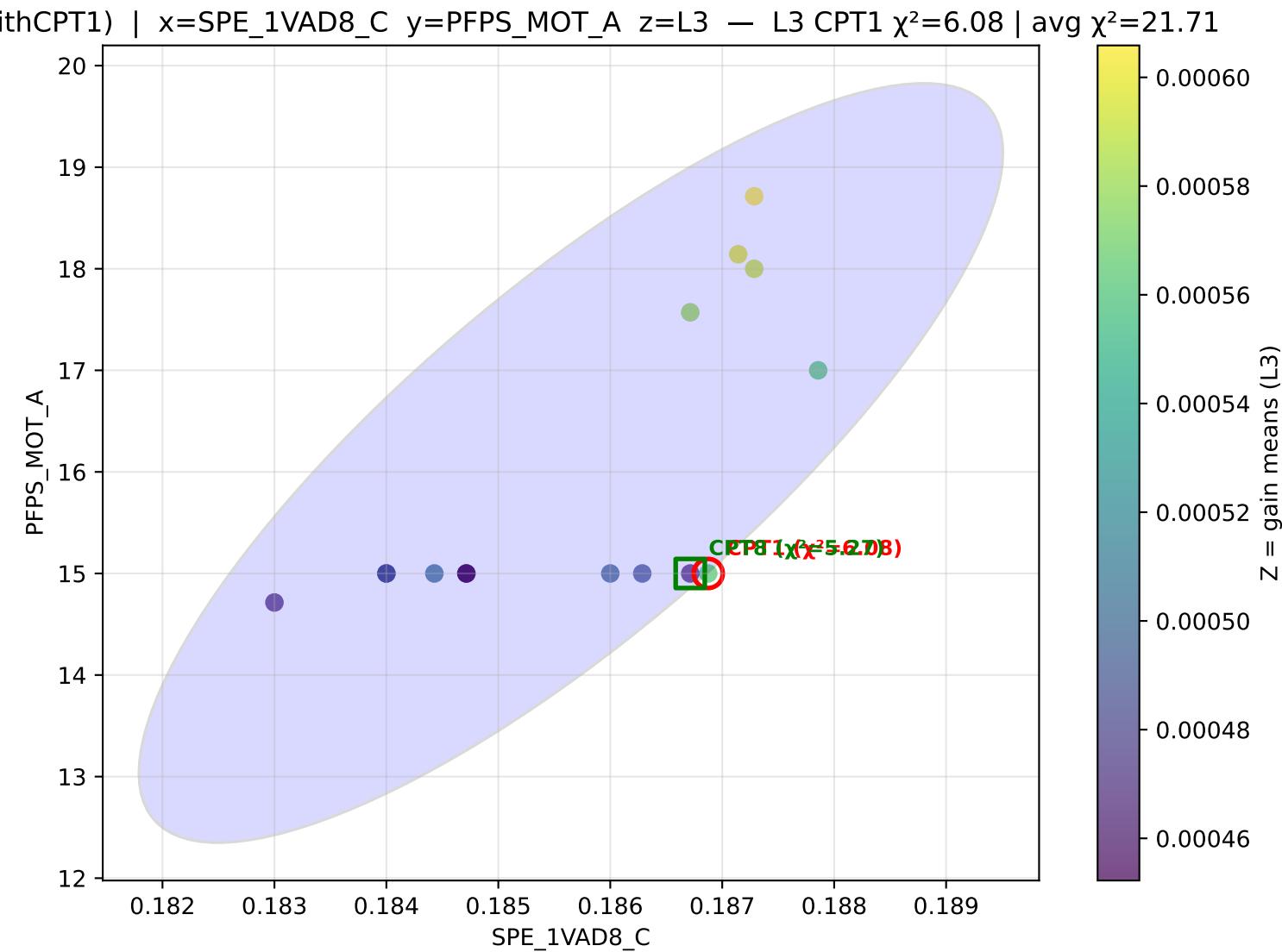
thCPT1) | x=SPE\_1VAD8\_C y=PFPS\_MOT\_A z=L0 — L0 CPT1  $\chi^2=23.12$  | avg  $\chi^2=21.71$



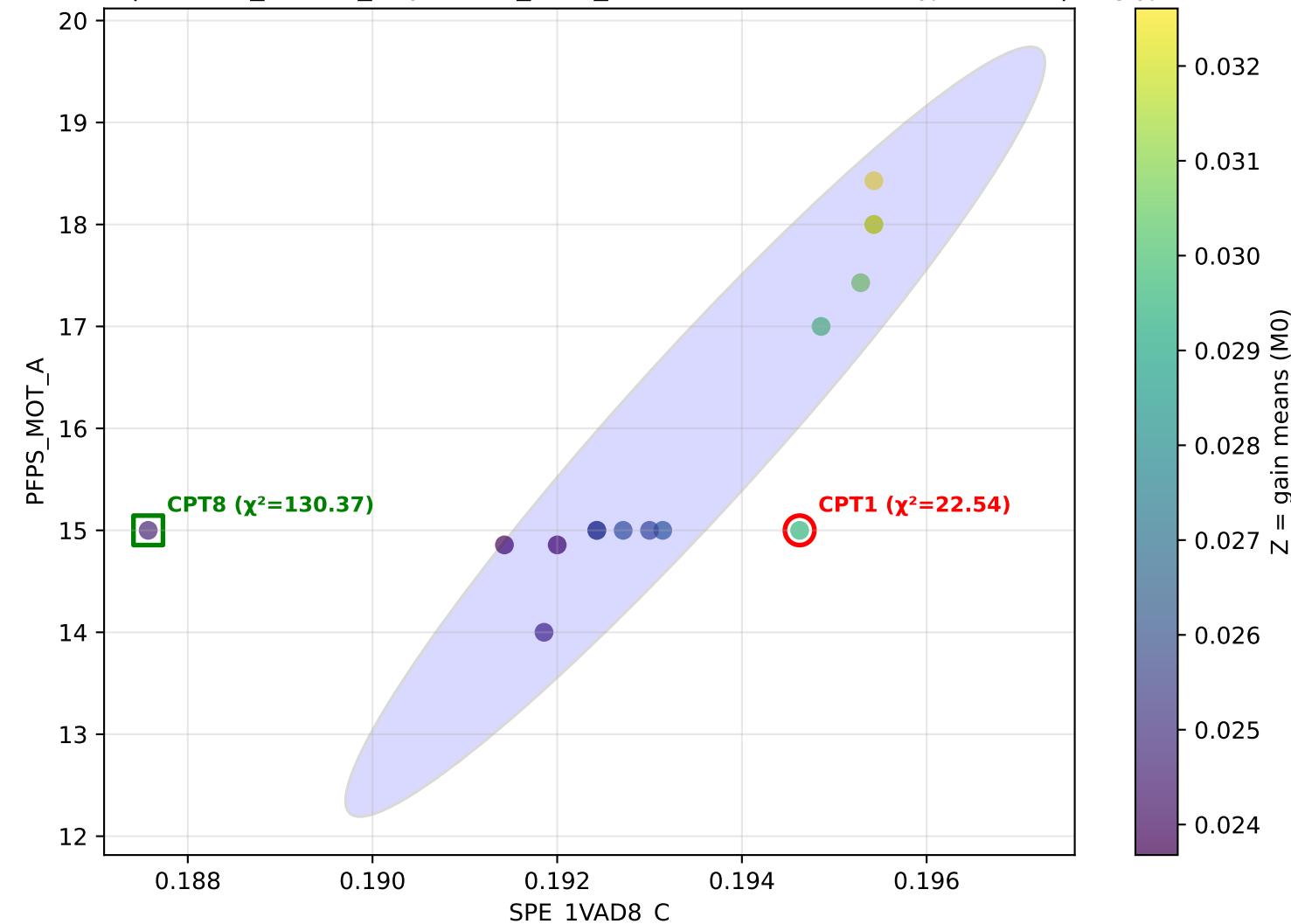


ithCPT1) | x=SPE\_1VAD8\_C y=PFPS\_MOT\_A z=L2 — L2 CPT1  $\chi^2=6.55$  | avg  $\chi^2=21.71$

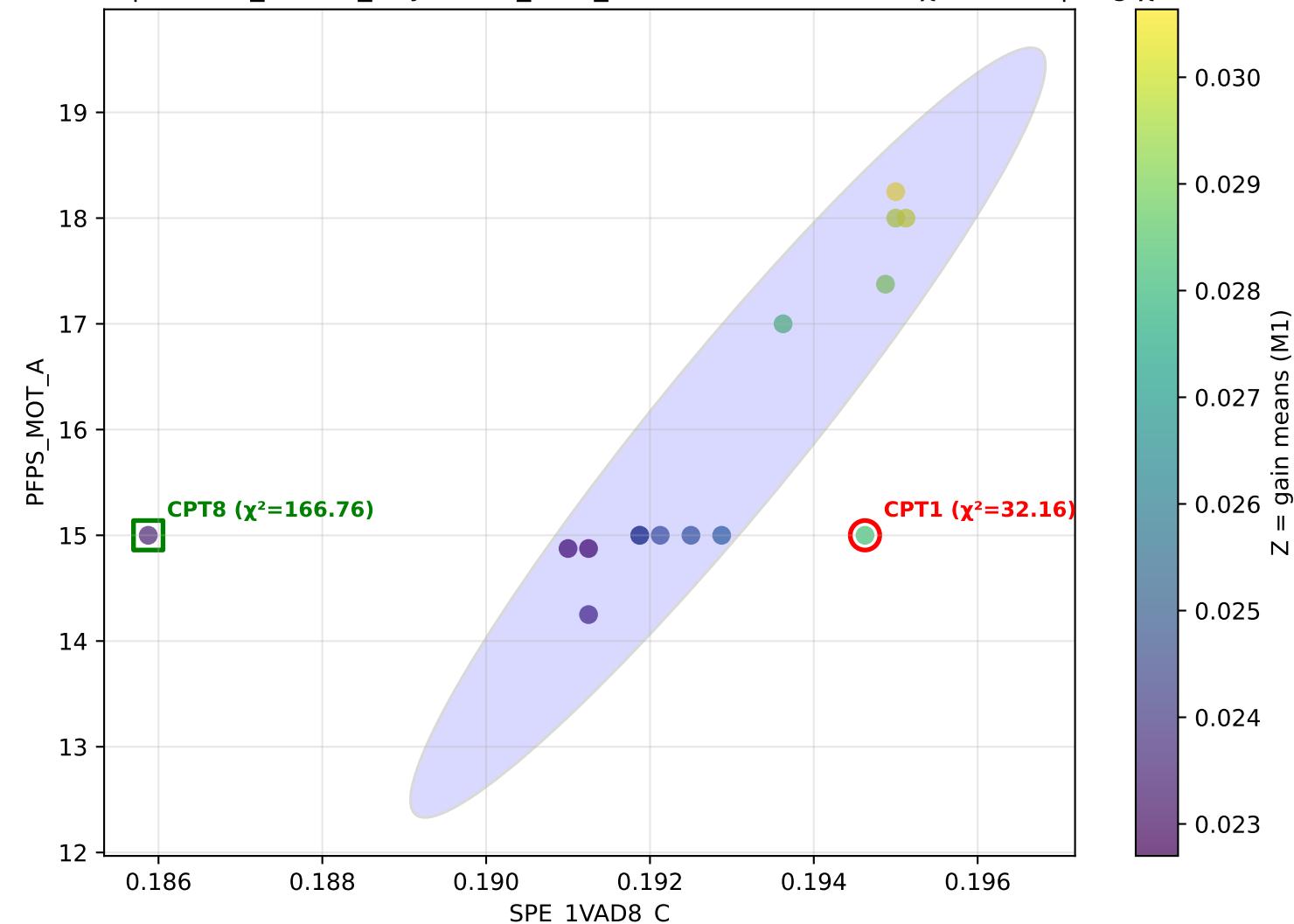




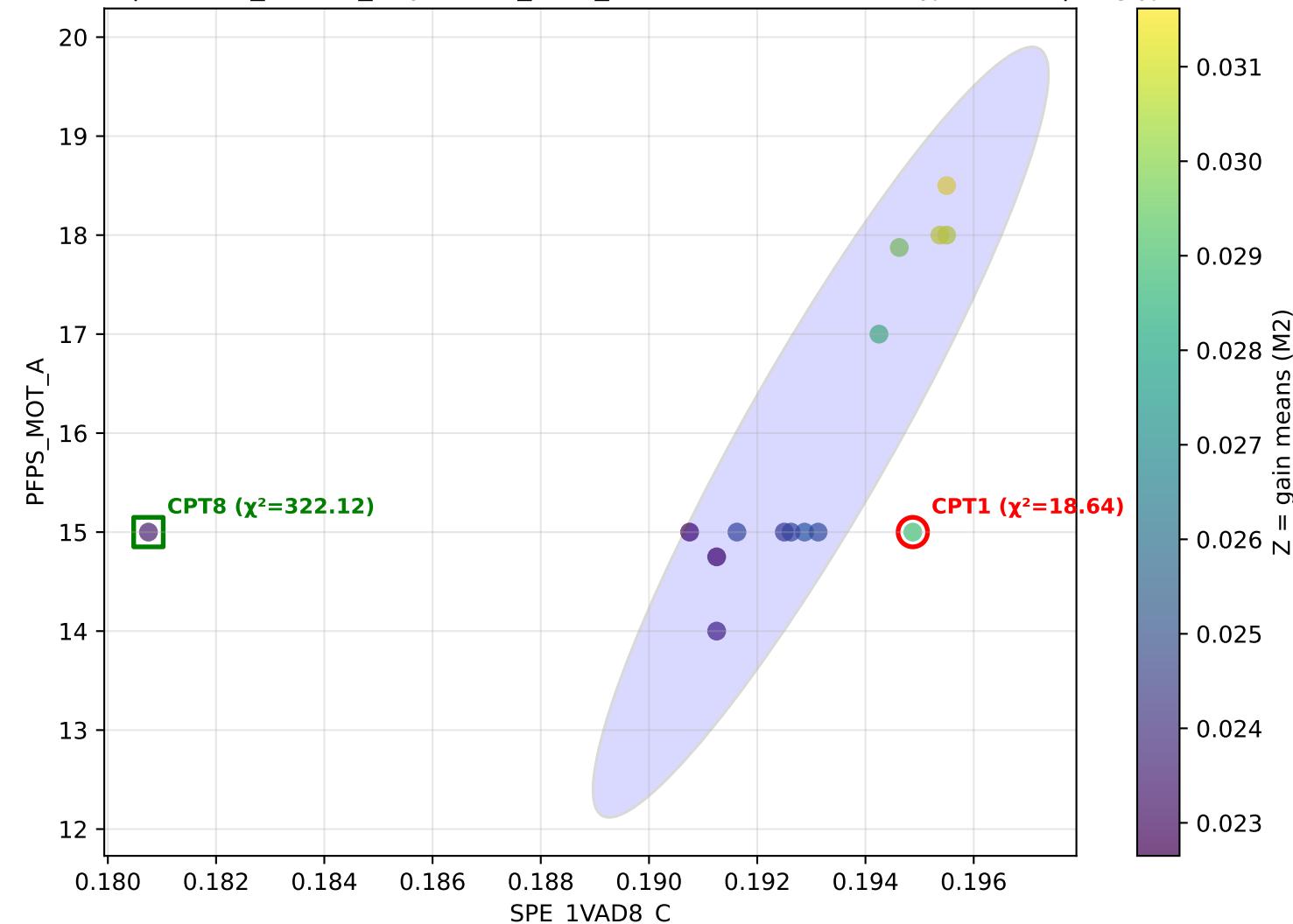
thCPT1) | x=SPE\_1VAD8\_C y=PFPS\_MOT\_A z=M0 — M0 CPT1  $\chi^2=22.54$  | avg  $\chi^2=21.71$



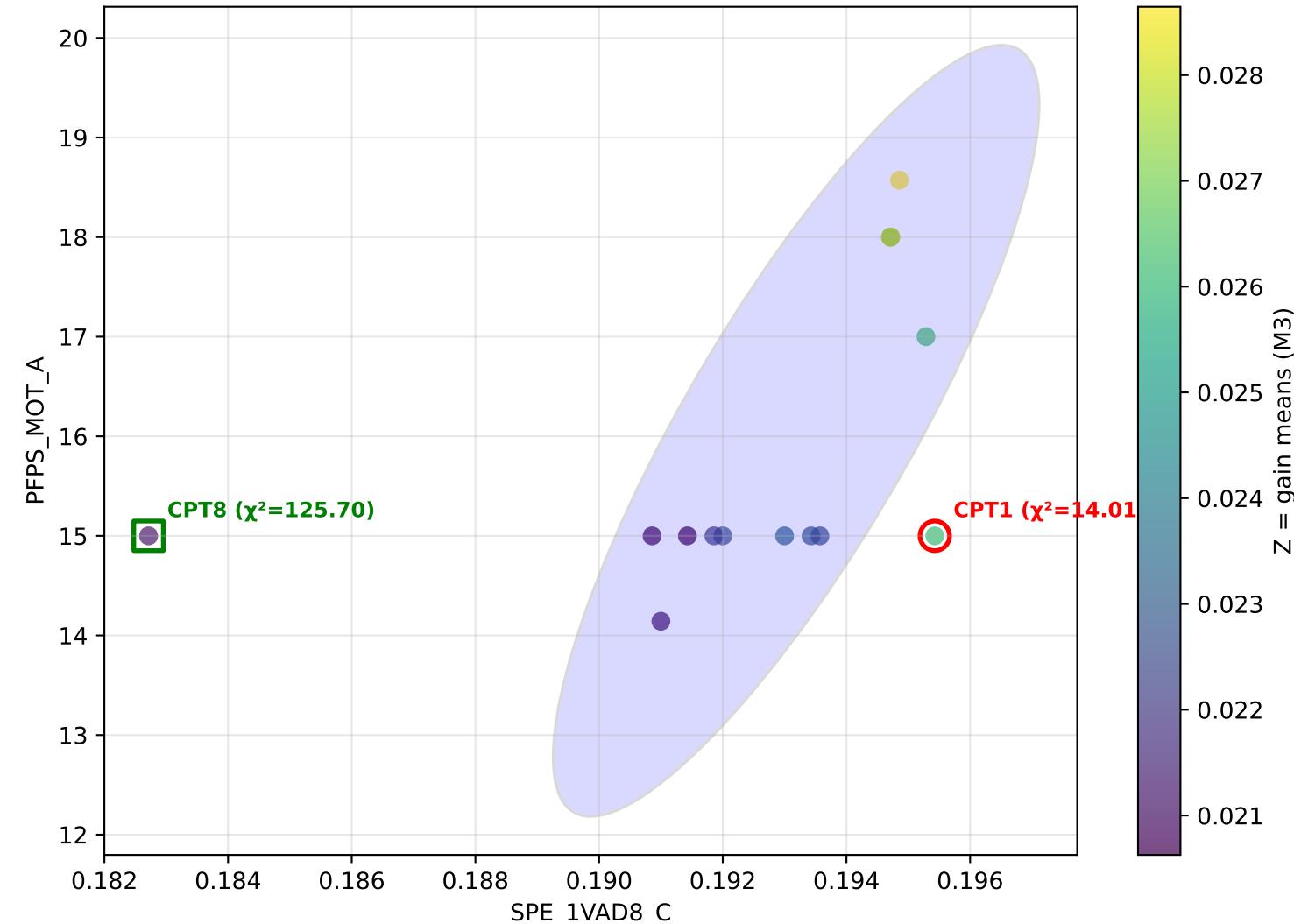
thCPT1) | x=SPE\_1VAD8\_C y=PFPS\_MOT\_A z=M1 — M1 CPT1  $\chi^2=32.16$  | avg  $\chi^2=21.71$



thCPT1) | x=SPE\_1VAD8\_C y=PFPS\_MOT\_A z=M2 — M2 CPT1  $\chi^2=18.64$  | avg  $\chi^2=21.71$



thCPT1) | x=SPE\_1VAD8\_C y=PFPS\_MOT\_A z=M3 — M3 CPT1  $\chi^2=14.01$  | avg  $\chi^2=21.71$



## Top 25 by average $\chi^2$ (CPT1) across settings

1. SPE\_N5\_C vs SPE\_1VAD8\_C — avg  $\chi^2=47.04$
2. SPE\_P5\_C vs SPE\_1VAD8\_C — avg  $\chi^2=45.31$
3. THERM\_FPGA vs SPE\_1VAD8\_C — avg  $\chi^2=44.65$
4. SPE\_1VAD8\_C vs PFPS\_PFPS\_T — avg  $\chi^2=44.49$
5. THERM\_DCB vs SPE\_1VAD8\_C — avg  $\chi^2=44.07$
6. VMON\_6V vs SPE\_1VAD8\_C — avg  $\chi^2=40.35$
7. SPE\_1VAD8\_C vs SPE\_ADC1\_T — avg  $\chi^2=39.33$
8. SPE\_1VAD8\_C vs SPE\_ADC0\_T — avg  $\chi^2=38.53$
9. SPE\_1VAD8\_C vs PFPS\_DCB\_5V — avg  $\chi^2=38.12$
10. SPE\_1VAD8\_C vs PFPS\_BAT\_T — avg  $\chi^2=38.06$
11. SPE\_1VAD8\_C vs PFPS\_SPE\_2V3 — avg  $\chi^2=37.42$
12. SPE\_1VAD8\_C vs PFPS\_PA3\_T — avg  $\chi^2=36.07$
13. SPE\_1VAD8\_C vs SPE\_FPGA\_T — avg  $\chi^2=33.69$
14. SPE\_1VAD8\_C vs PFPS\_CAR\_T — avg  $\chi^2=32.59$
15. SPE\_1VAD8\_C vs PFPS\_SPE\_3V6 — avg  $\chi^2=29.96$
16. SPE\_1VAD8\_C vs PFPS\_PA1\_T — avg  $\chi^2=29.75$
17. SPE\_1VAD8\_C vs PFPS\_SPE\_P5V5 — avg  $\chi^2=28.30$
18. SPE\_1VA8\_C vs SPE\_1VAD8\_C — avg  $\chi^2=27.68$
19. SPE\_1VAD8\_C vs PFPS\_PA2\_T — avg  $\chi^2=27.14$
20. SPE\_1VAD8\_C vs PFPS\_PA0\_T — avg  $\chi^2=26.99$
21. SPE\_N5\_C vs PFPS\_DCB\_5V — avg  $\chi^2=23.68$
22. SPE\_N5\_C vs PFPS\_SPE\_2V3 — avg  $\chi^2=23.29$

23. SPE\_1VAD8\_C vs PFPS\_DCB\_3V7 — avg  $\chi^2$ =22.87
24. SPE\_1VAD8\_C vs PFPS\_SPE\_N5V5 — avg  $\chi^2$ =22.76
25. SPE\_1VAD8\_C vs PFPS\_MOT\_A — avg  $\chi^2$ =21.71