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**Supporting Information**

**Cucurbit[8]uril Forms Tight Inclusion Complexes with Cationic Triamantanes**

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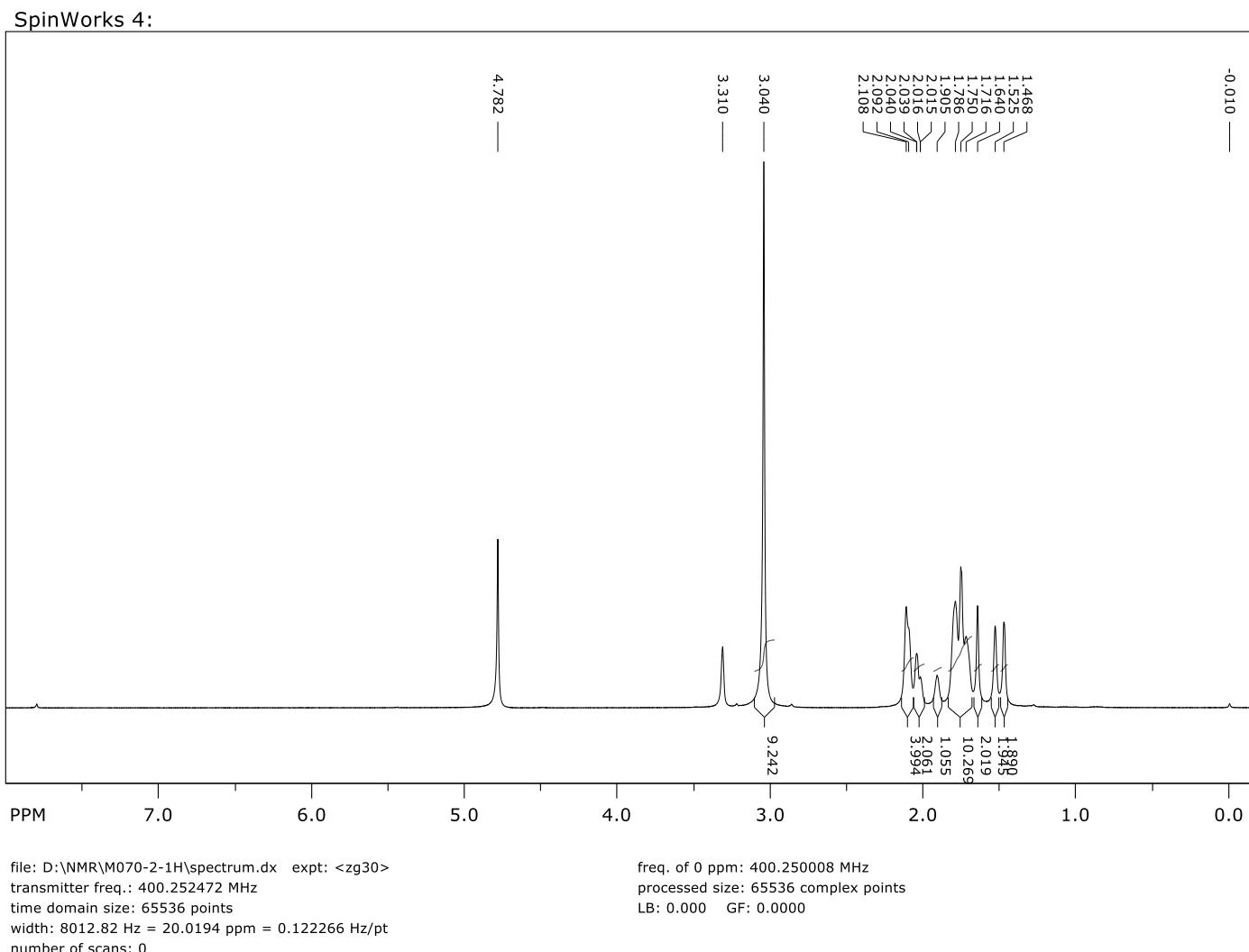
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Dr. Marina Šekutor, Email: [msekutor@irb.hr](mailto:msekutor@irb.hr)

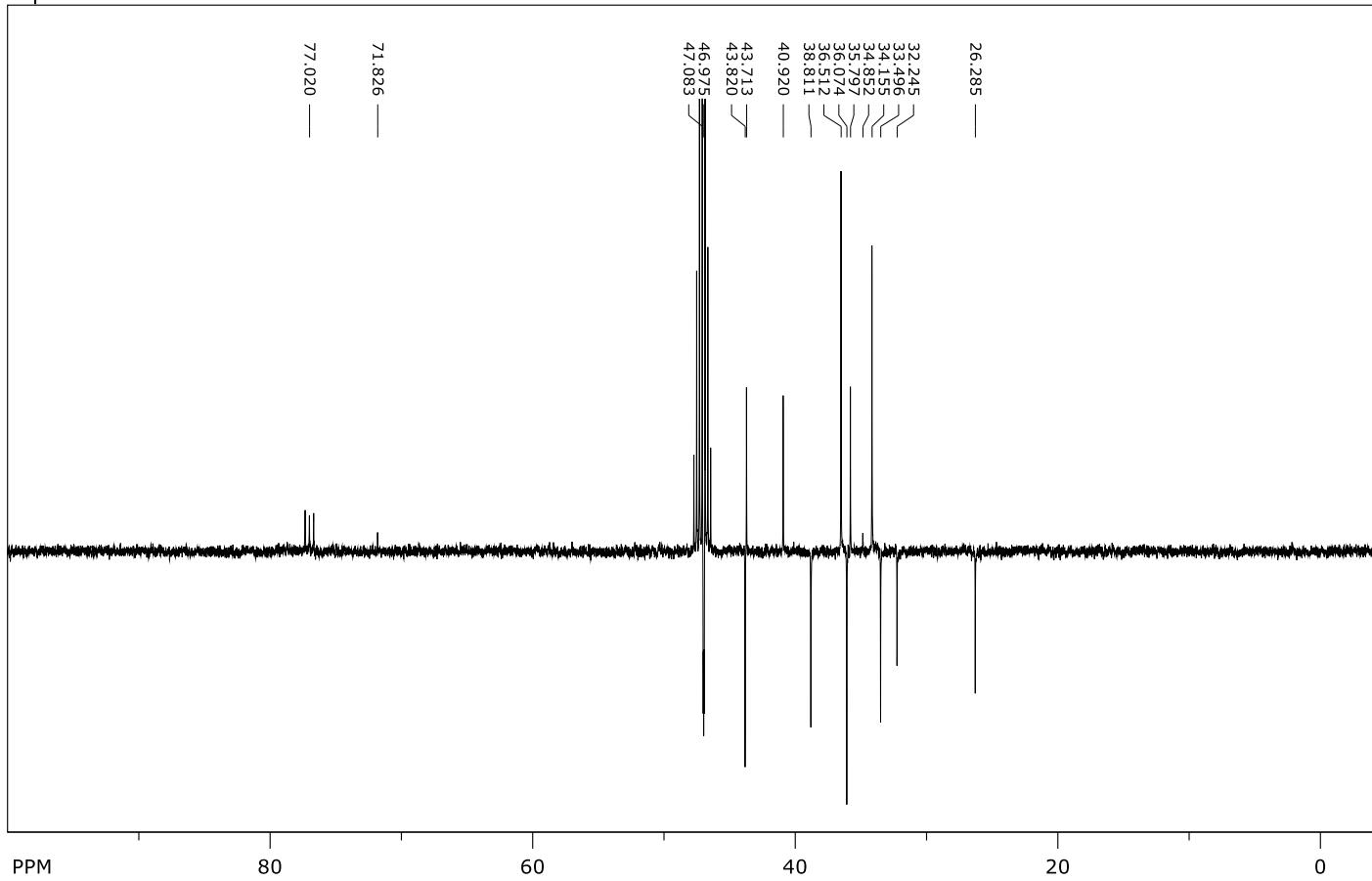
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**Figure S1.**  $^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$  + few drops of  $\text{CD}_3\text{OD}$ ) recorded for  $N,N,N$ -trimethyltriamantane-9-aminium iodide (**G1•I<sup>-</sup>**).

SpinWorks 4:

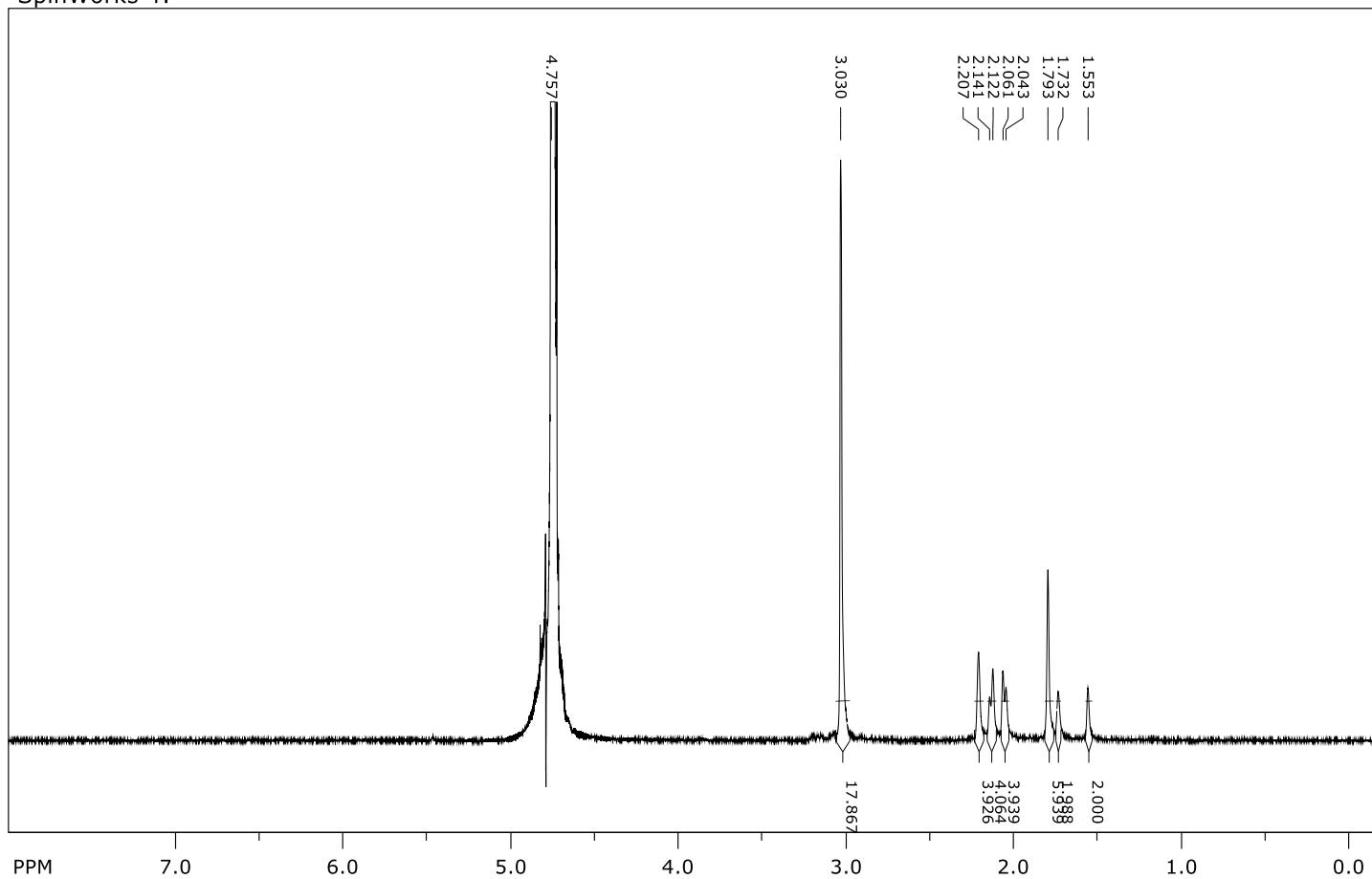


file: D:\NMR\M070-2-APT\spectrum.dx expt: <jmod>  
transmitter freq.: 100.653007 MHz  
time domain size: 32768 points  
width: 24038.46 Hz = 238.8251 ppm = 0.733596 Hz/pt  
number of scans: 0

freq. of 0 ppm: 100.643018 MHz  
processed size: 32768 complex points  
LB: 0.000 GF: 0.0000

**Figure S2.**  $^{13}\text{C}$  NMR (100 MHz,  $\text{CDCl}_3 + \text{few drops of CD}_3\text{OD}$ ) of  $N,N,N$ -trimethyltriamantane-9-aminium iodide ( $\mathbf{G1} \bullet \mathbf{I}^-$ ).

SpinWorks 4:

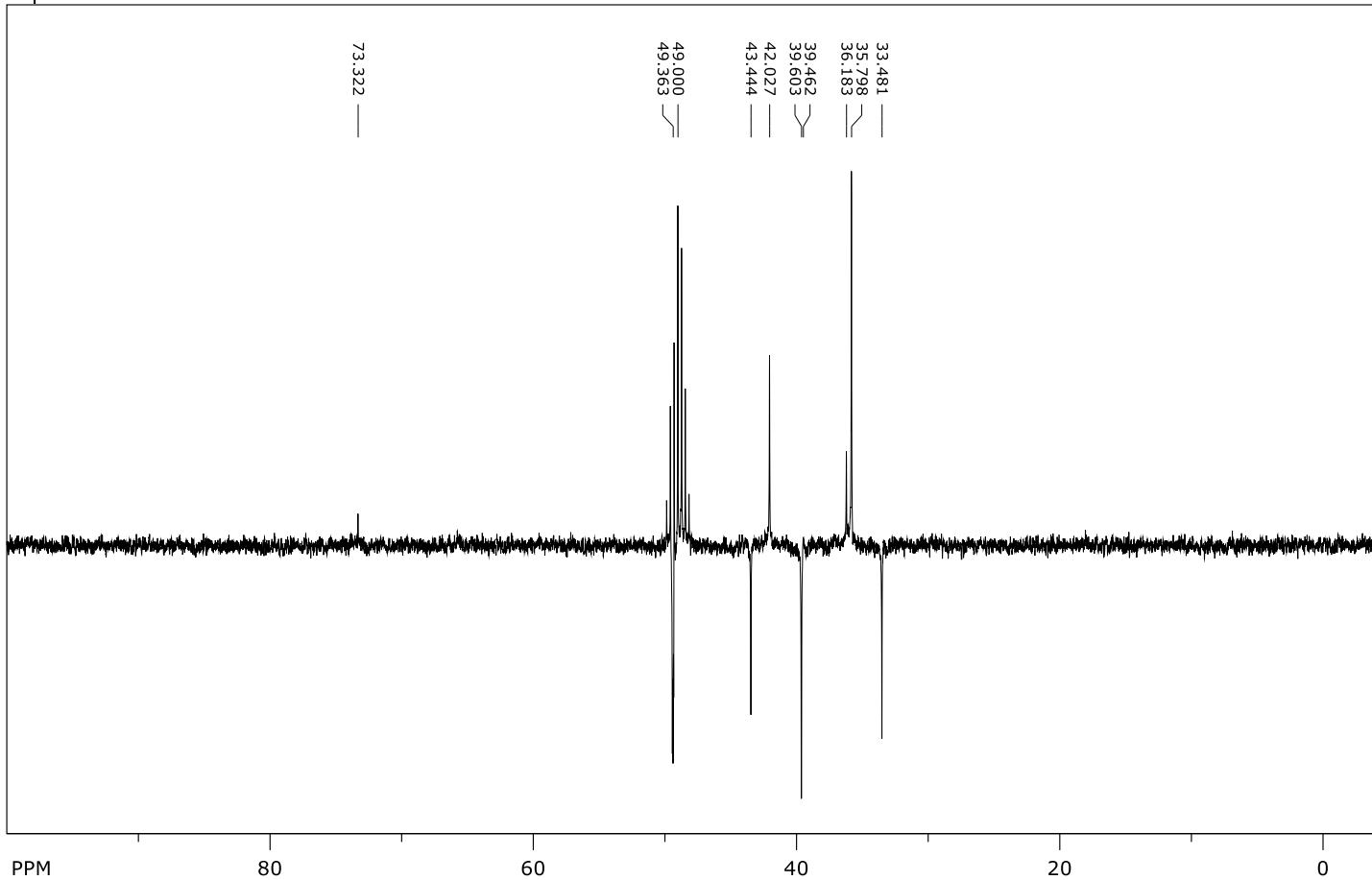


file: D:\NMR\M088-I-C-1H\spectrum.dx expt: < zg30 >  
transmitter freq.: 600.135401 MHz  
time domain size: 32768 points  
width: 12019.23 Hz = 20.0275 ppm = 0.366798 Hz/pt  
number of scans: 0

freq. of 0 ppm: 600.129962 MHz  
processed size: 32768 complex points  
LB: 0.000 GF: 0.0000

**Figure S3.**  $^1\text{H}$  NMR (600 MHz,  $\text{D}_2\text{O}$ ) recorded for  $N,N,N,N',N',N'$ -hexamethyltriamantane-9,15-diaminium diiodide (**G3**• $2\text{I}^-$ ).

SpinWorks 4:

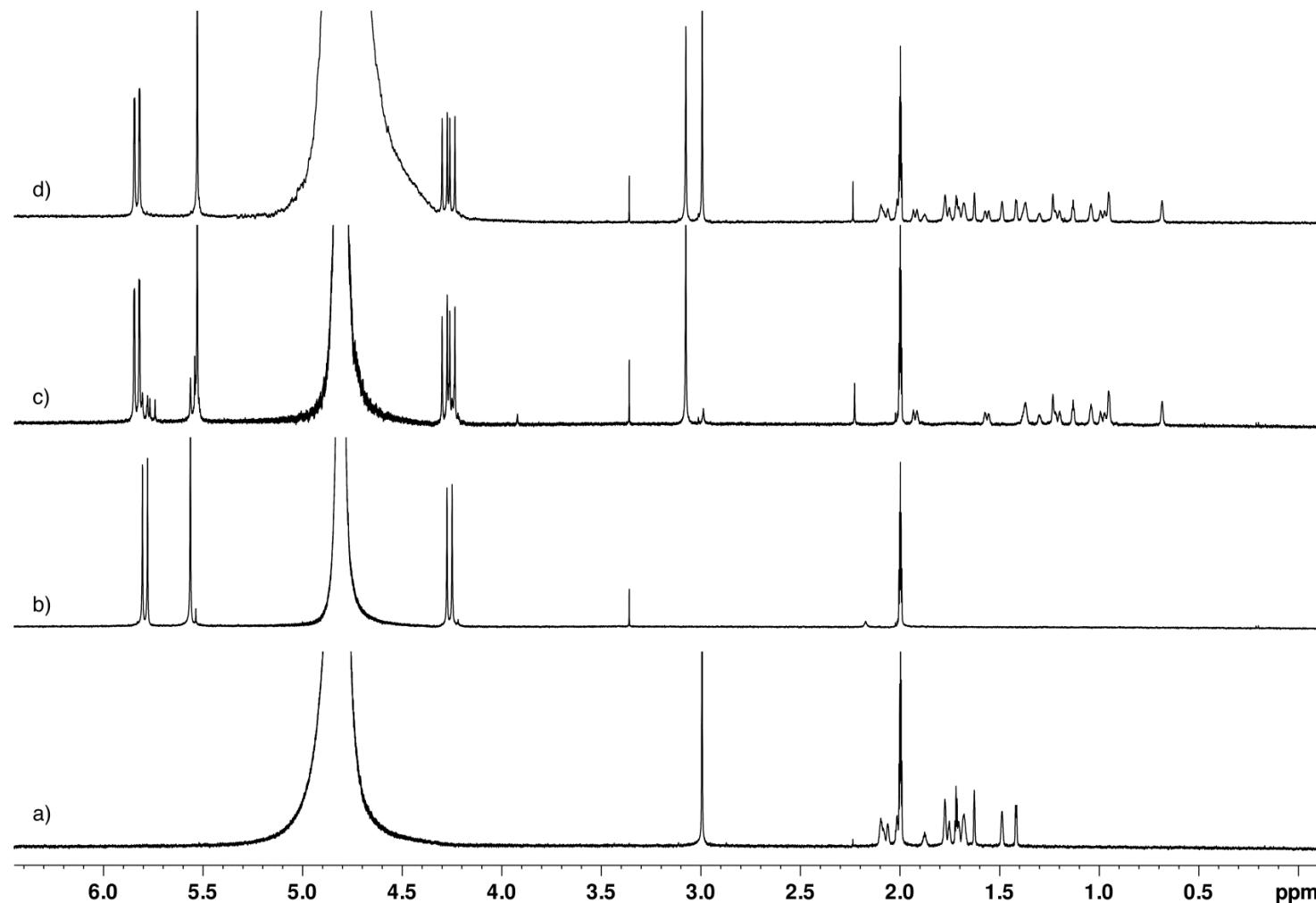


file: D:\NMR\M088-APT\spectrum.dx expt: <jmod>  
transmitter freq.: 75.475295 MHz  
time domain size: 32768 points  
width: 17985.61 Hz = 238.2980 ppm = 0.548877 Hz/pt  
number of scans: 0

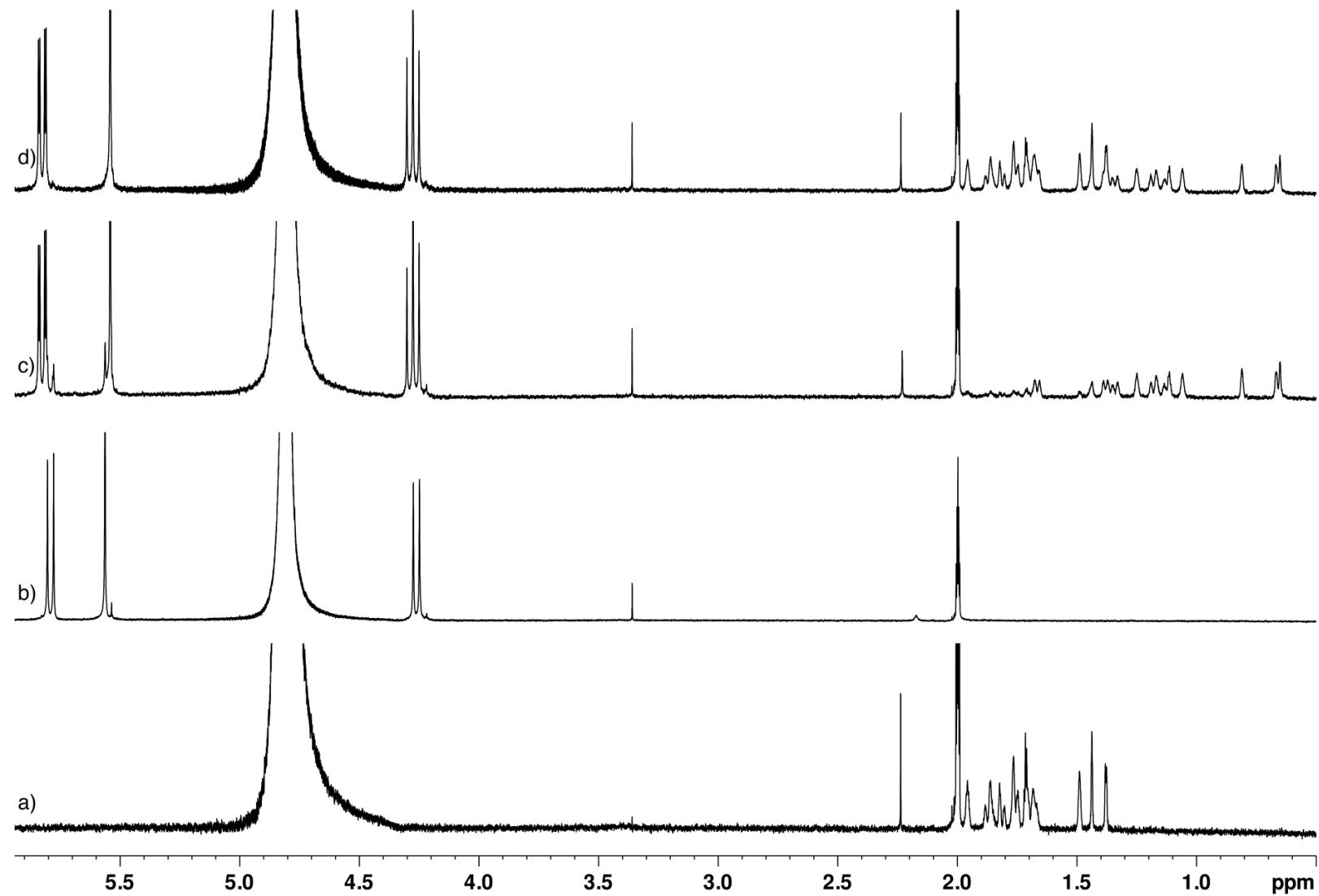
freq. of 0 ppm: 75.467645 MHz  
processed size: 32768 complex points  
LB: 0.000 GF: 0.0000

**Figure S4.** <sup>13</sup>C NMR (75 MHz, CD<sub>3</sub>OD) recorded for *N,N,N,N',N'-hexamethyltriamantane-9,15-diaminium diiodide (G3•2I<sup>-</sup>)*.

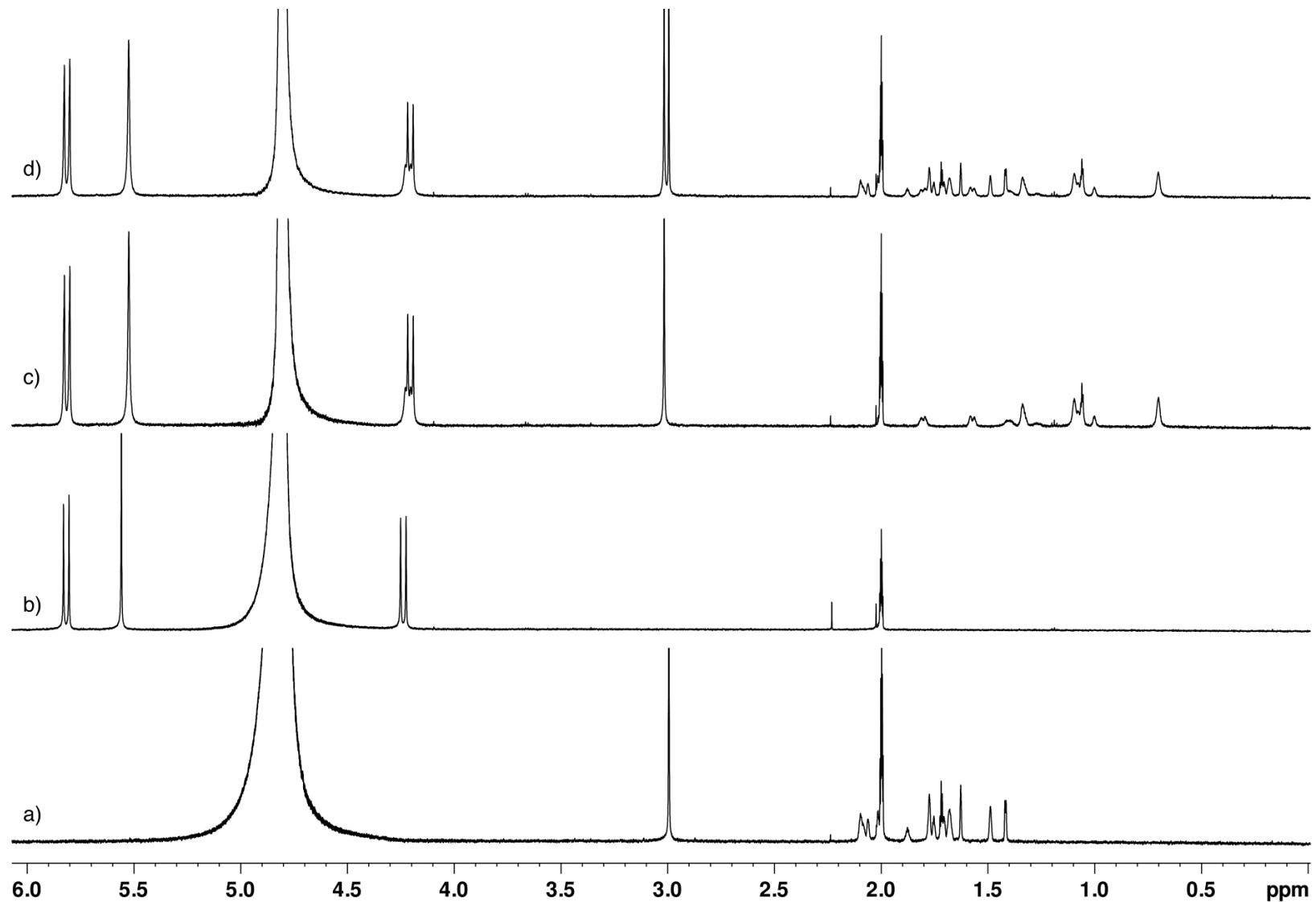
**<sup>1</sup>H NMR binding studies for CB[7] and CB[8] toward triamantanes G1 – G4**



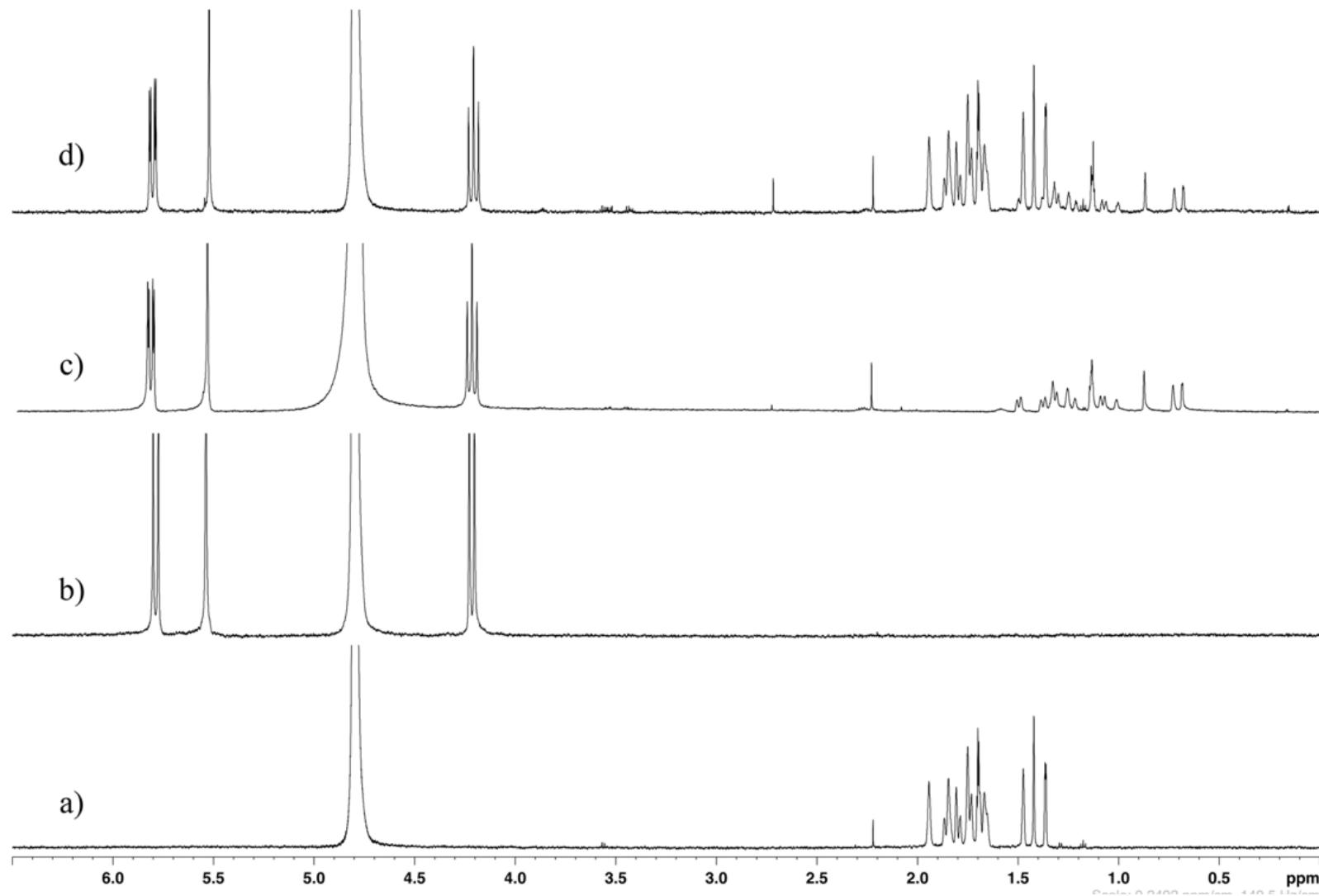
**Figure S5.** <sup>1</sup>H NMR spectra recorded (600 MHz, RT, 50 mM NaO<sub>2</sub>CCD<sub>3</sub>, pD 4.74) for: a) G1 (0.5 mM), b) CB[7] (0.2 mM), c) an equimolar mixture of G1 and CB[7] (0.2 mM), and d) a mixture of G1 (0.4 mM) and CB[7] (0.2 mM).



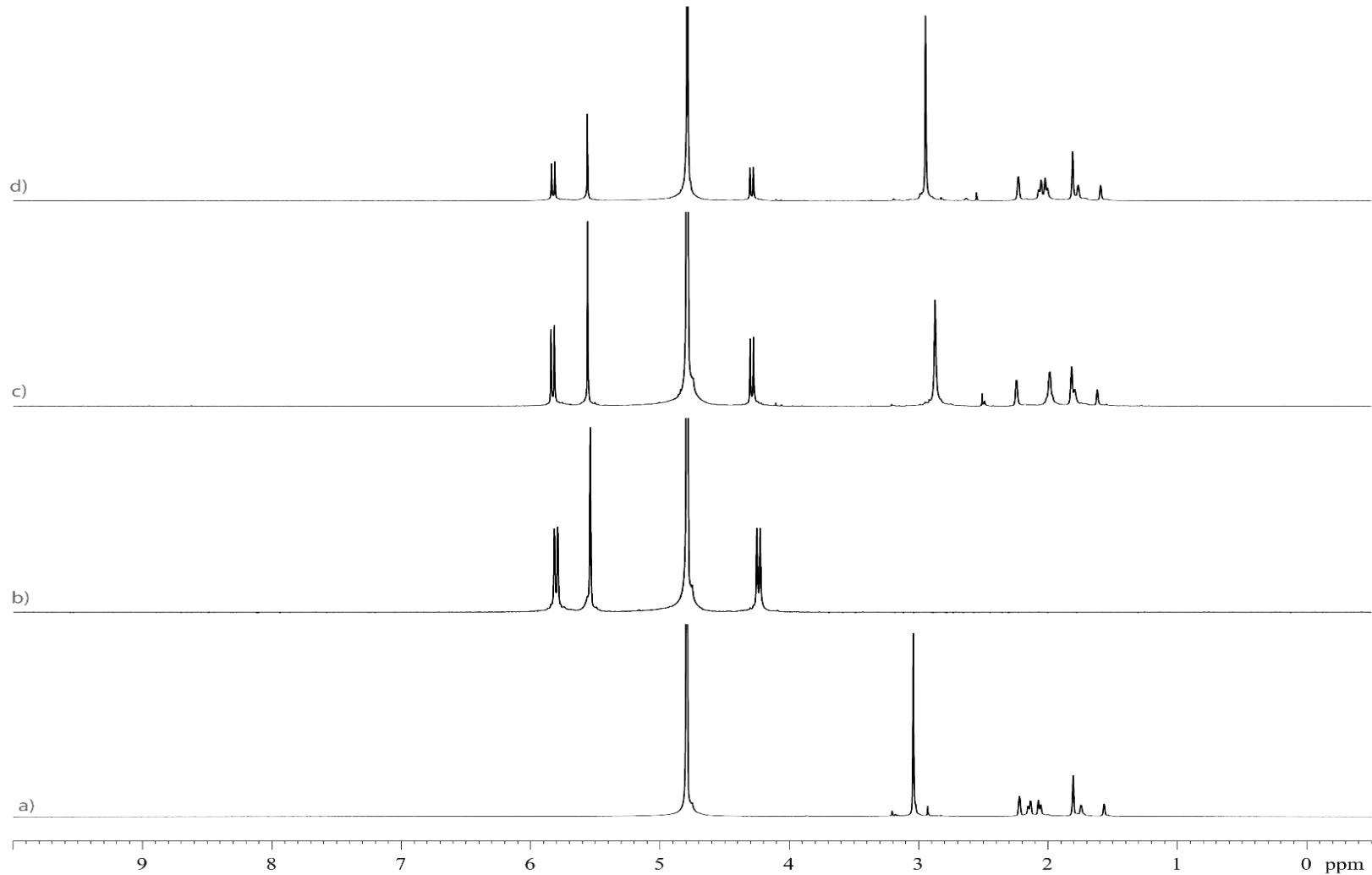
**Figure S6.** <sup>1</sup>H NMR spectra recorded (600 MHz, RT, 50 mM NaO<sub>2</sub>CCD<sub>3</sub>, pD 4.74) for: a) **G2** (0.5 mM), b) CB[7] (0.2 mM), c) an equimolar mixture **G2** and CB[7] (0.2 mM), and d) a mixture of **G2** (0.4 mM) and CB[7] (0.2 mM).



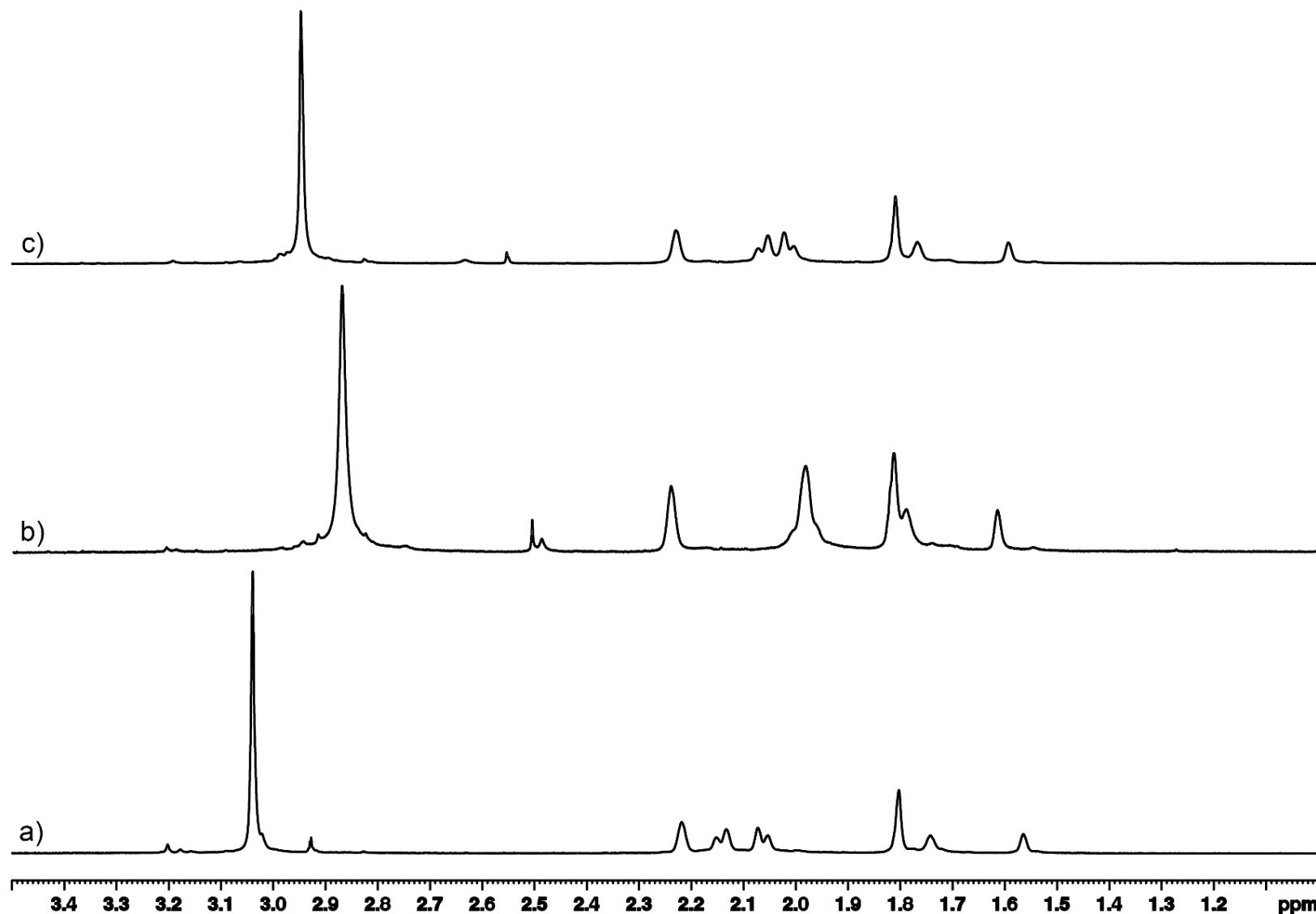
**Figure S7.** <sup>1</sup>H NMR spectra recorded (600 MHz, RT, 50 mM NaO<sub>2</sub>CCD<sub>3</sub>, pD 4.74) for: a) G1 (0.5 mM), b) CB[8] (0.2 mM), c) an equimolar mixture of G1 and CB[8] (0.2 mM), and d) a mixture of G1 (0.4 mM) and CB[8] (0.2 mM).



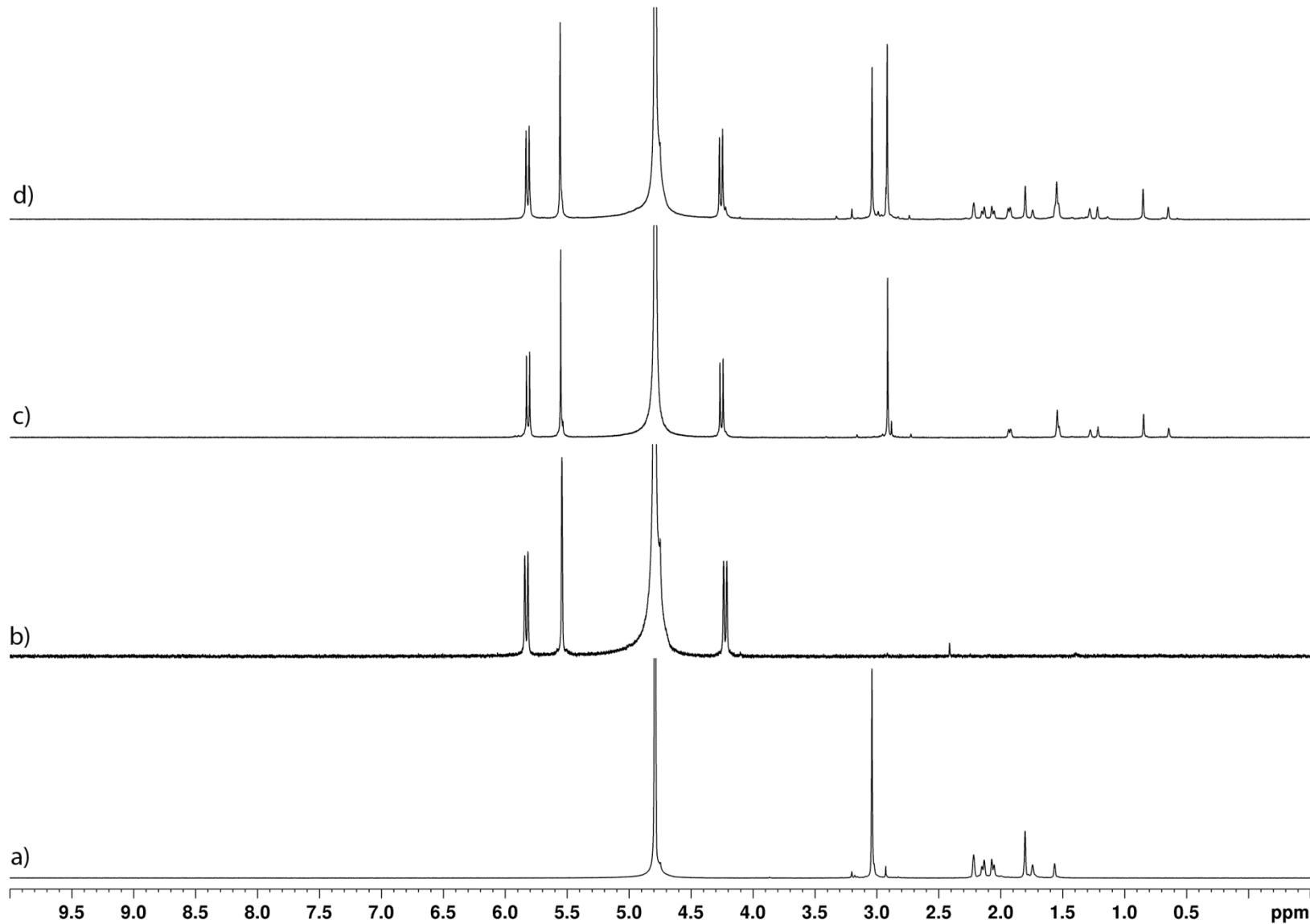
**Figure S8.** <sup>1</sup>H NMR spectra recorded (600 MHz, RT, D<sub>2</sub>O) for: a) G2 (0.5 mM), b) CB[8] (0.2 mM), c) an equimolar mixture of G2 and CB[8] (0.2 mM), and d) a mixture of G2 (0.4 mM) and CB[8] (0.2 mM). The CB[8]•G2 complex precipitates from solution but can be made temporarily soluble by heating to obtain the NMR spectra given above.



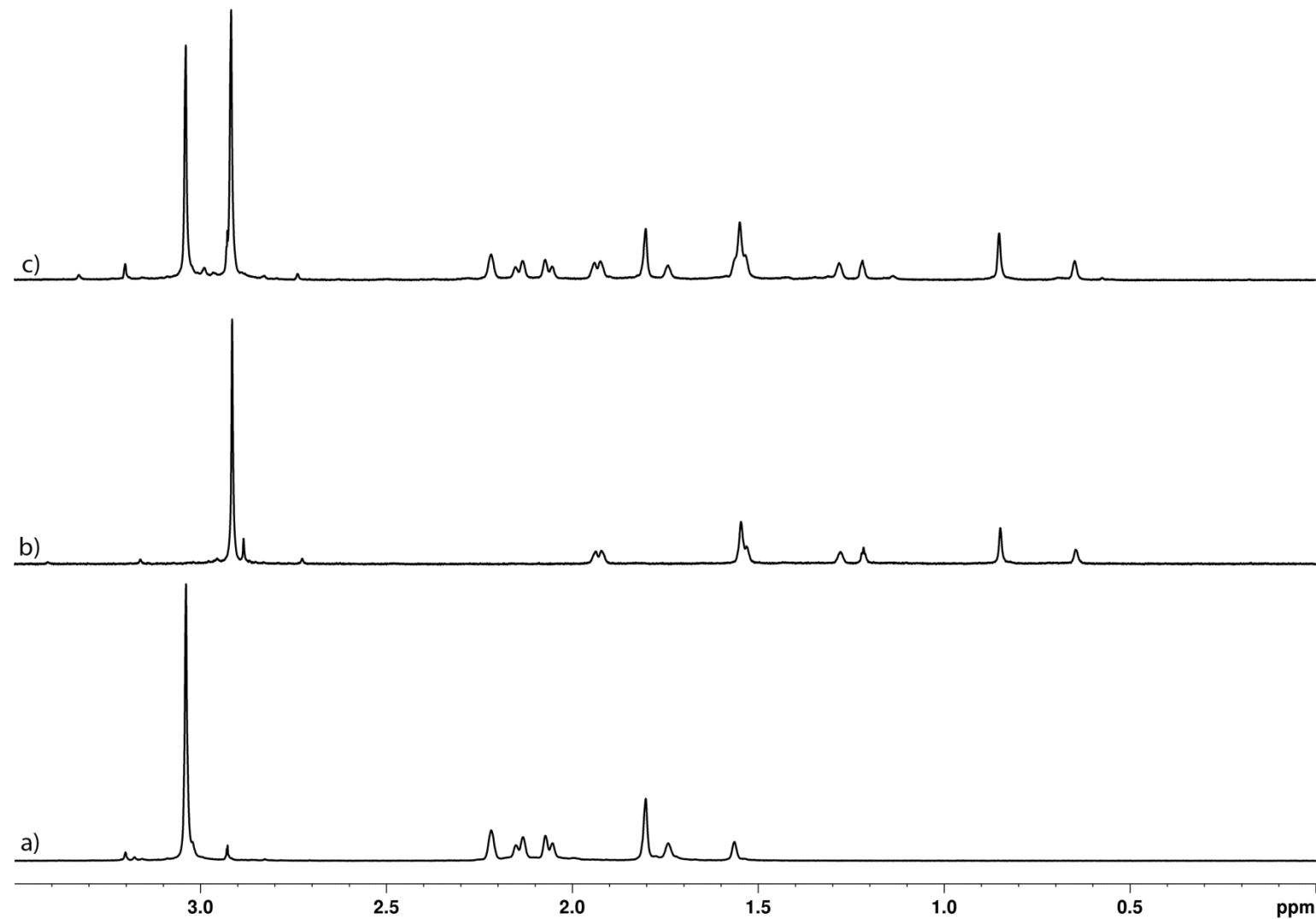
**Figure S9.** <sup>1</sup>H NMR spectra recorded for (600 MHz, RT, D<sub>2</sub>O) for: a) G3 (1.0 mM), b) CB[7] (1.0 mM), c) an equimolar mixture of G3 and CB[7] (1.0 mM), and d) a mixture of G3 (2.0 mM) and CB[7] (1.0 mM).



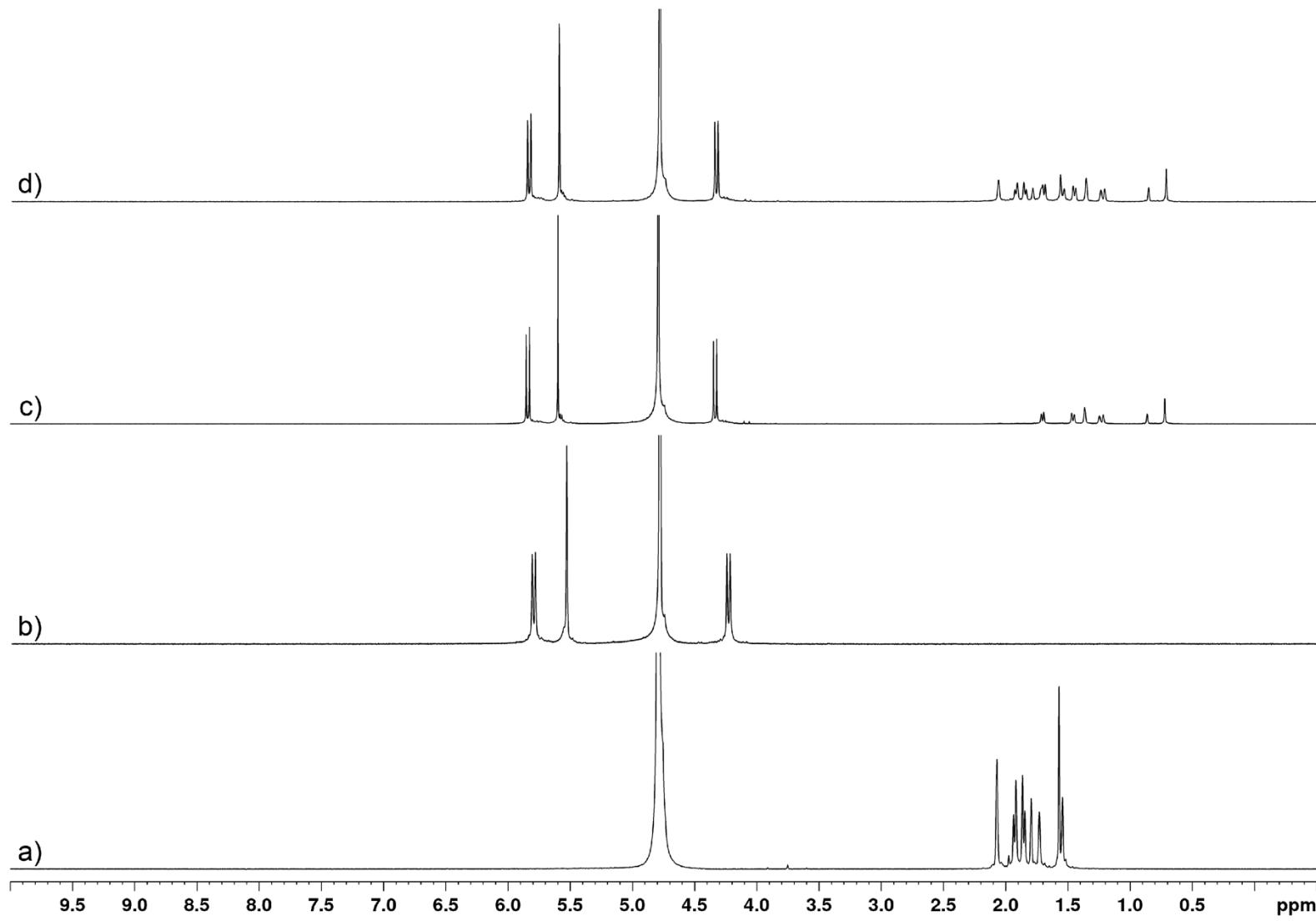
**Figure S10.** The expanded guest region for <sup>1</sup>H NMR spectra recorded for (600 MHz, RT, D<sub>2</sub>O) for: a) G3 (1.0 mM), b) an equimolar mixture of G3 and CB[7] (1.0 mM), and c) a mixture of G3 (2.0 mM) and CB[7] (1.0 mM).



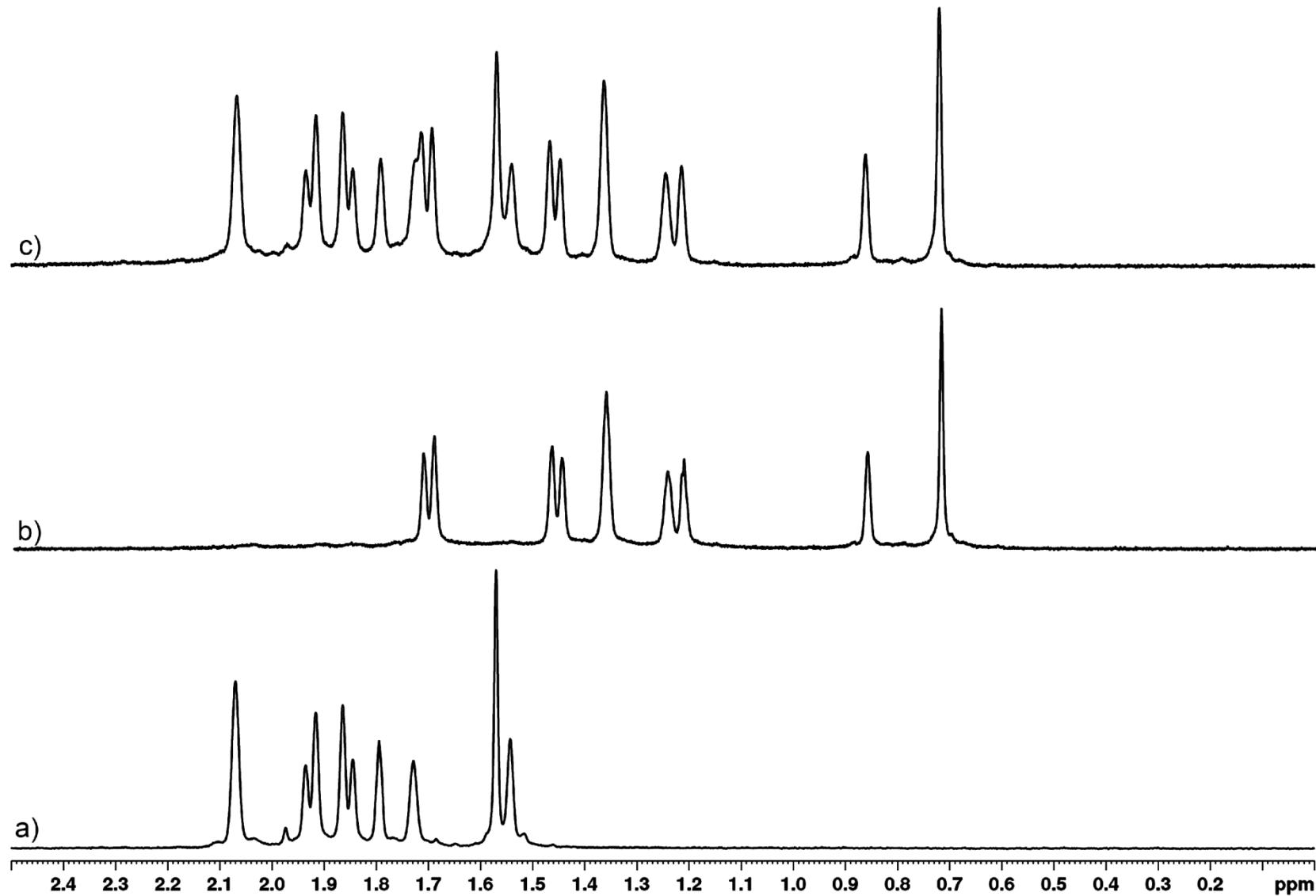
**Figure S11.** <sup>1</sup>H NMR spectra recorded for (600 MHz, RT, D<sub>2</sub>O) for: a) G3 (1.0 mM), b) CB[8] (0.5 mM), c) an equimolar mixture of G3 and CB[8] (0.5 mM), and d) a mixture of G3 (1.0 mM) and CB[8] (0.5 mM).



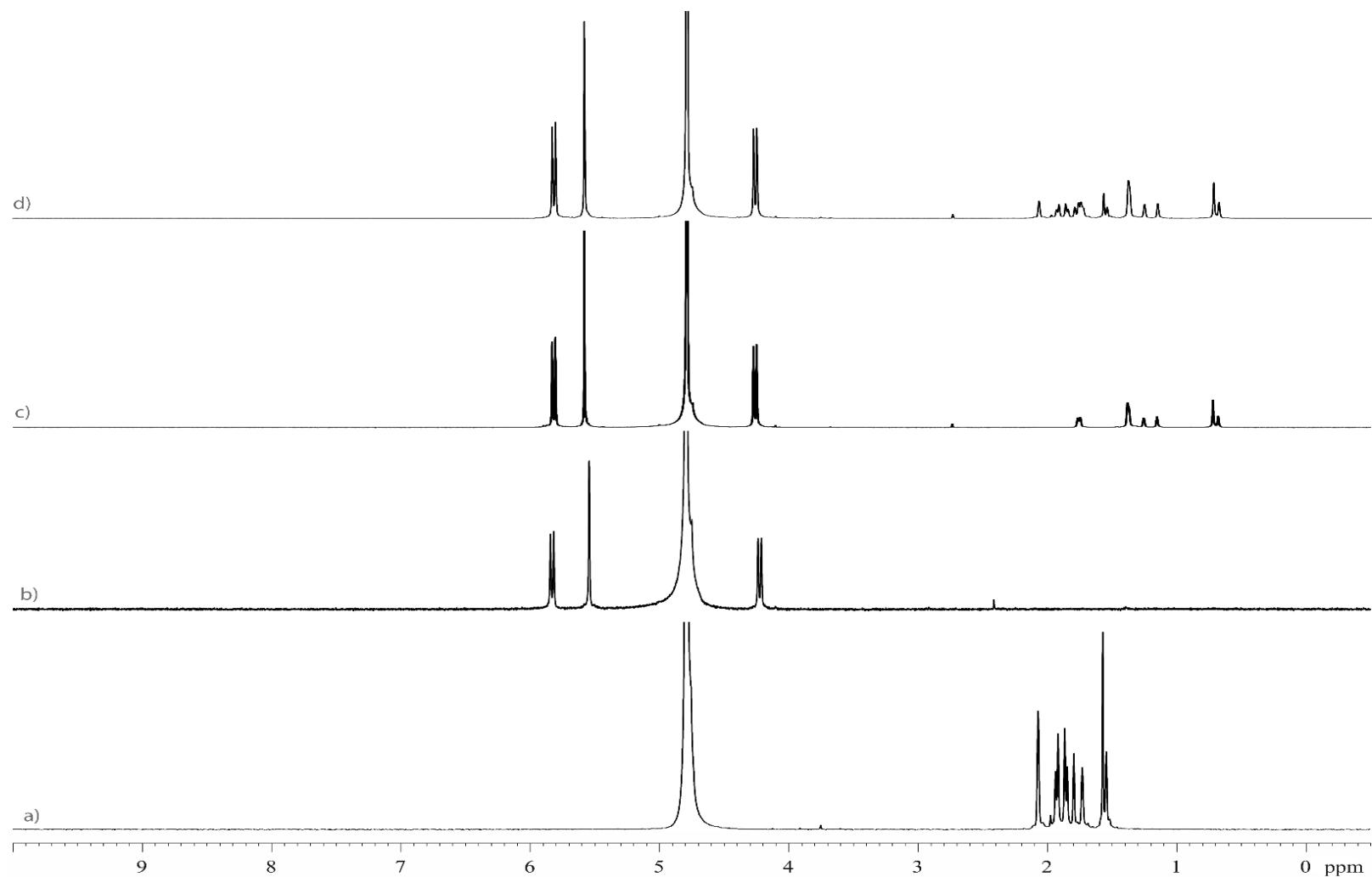
**Figure S12.** The expanded guest region for <sup>1</sup>H NMR spectra recorded for (600 MHz, RT, D<sub>2</sub>O) for: a) G3 (1.0 mM), b) an equimolar mixture of G3 and CB[8] (0.5 mM), and c) a mixture of G3 (1.0 mM) and CB[8] (0.5 mM).



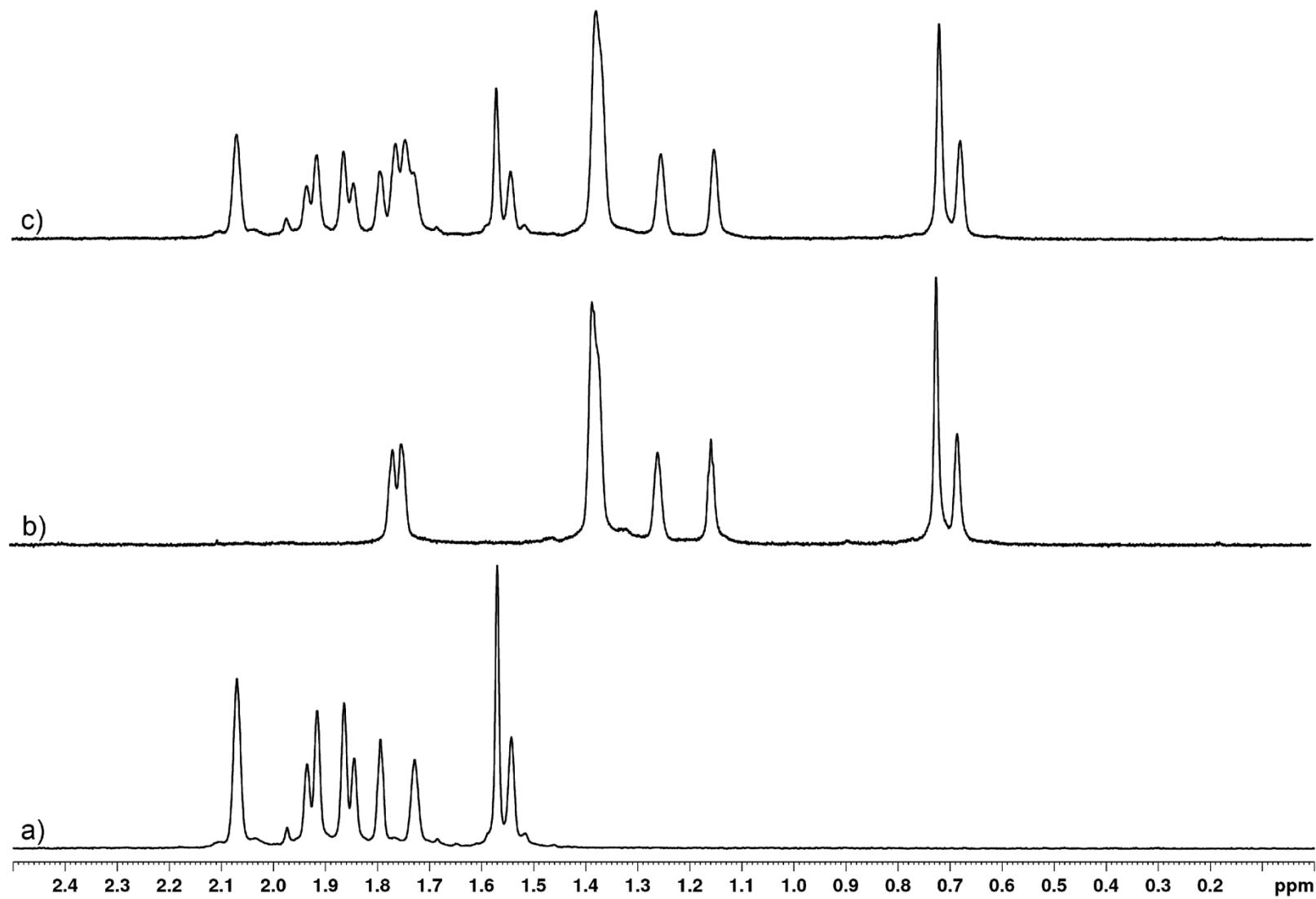
**Figure S13.**  $^1\text{H}$  NMR spectra recorded for (600 MHz, RT,  $\text{D}_2\text{O}$ ) for: a) **G4** (1.0 mM), b) **CB[7]** (1.0 mM), c) an equimolar mixture of **G4** and **CB[7]** (1.0 mM), and d) a mixture of **G4** (2.0 mM) and **CB[7]** (1.0 mM).



**Figure S14.** The expanded guest region for <sup>1</sup>H NMR spectra recorded for (600 MHz, RT, D<sub>2</sub>O) for: a) G4 (1.0 mM), b) an equimolar mixture of G4 and CB[7] (1.0 mM), and c) a mixture of G4 (2.0 mM) and CB[7] (1.0 mM).



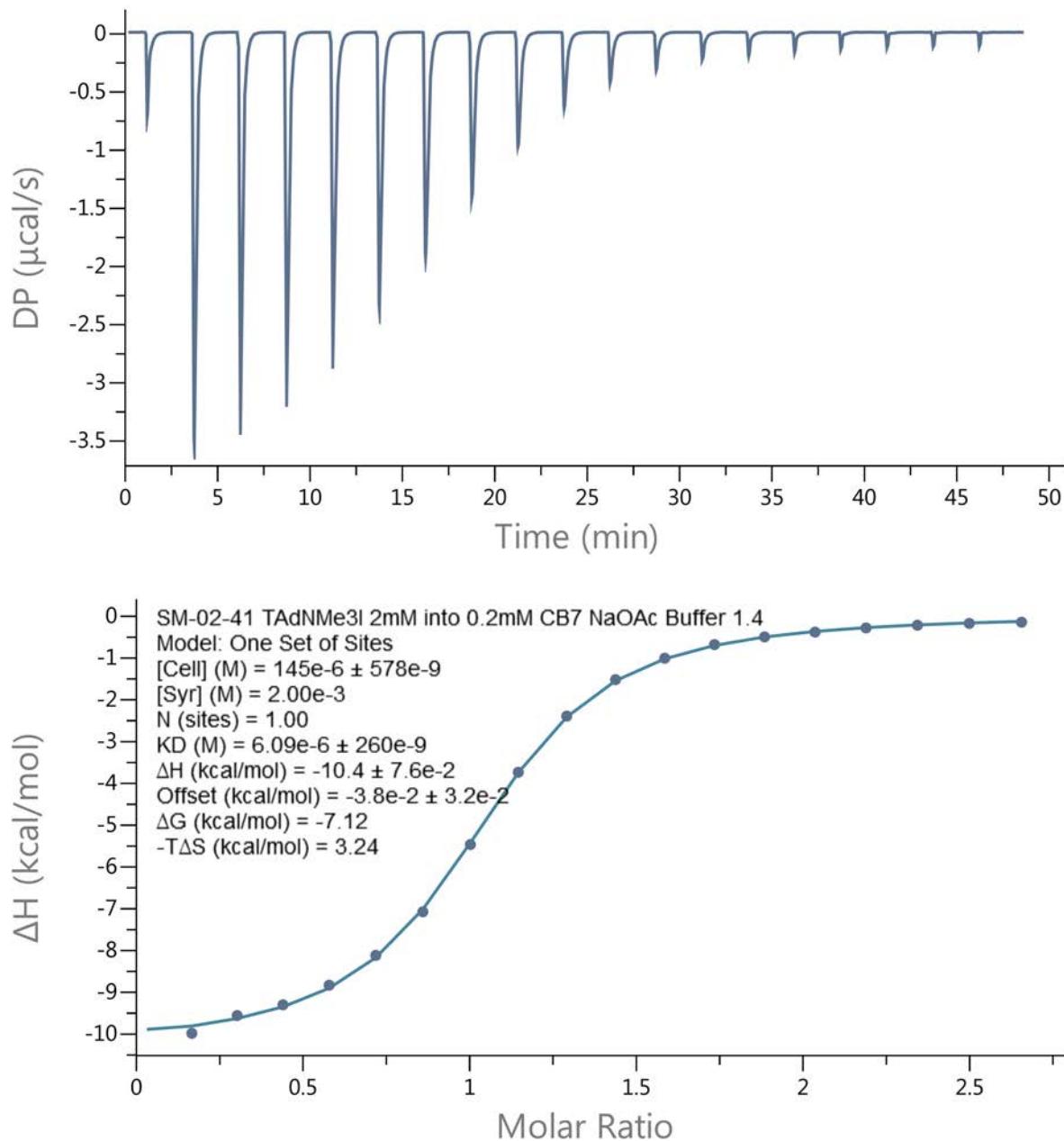
**Figure S15.**  $^1\text{H}$  NMR spectra recorded for (600 MHz, RT,  $\text{D}_2\text{O}$ ) for: a) **G4** (1.0 mM), b) CB[8] (0.5 mM), c) an equimolar mixture of **G4** and CB[8] (1.0 mM), and d) a mixture of **G4** (2.0 mM) and CB[8] (1.0 mM).



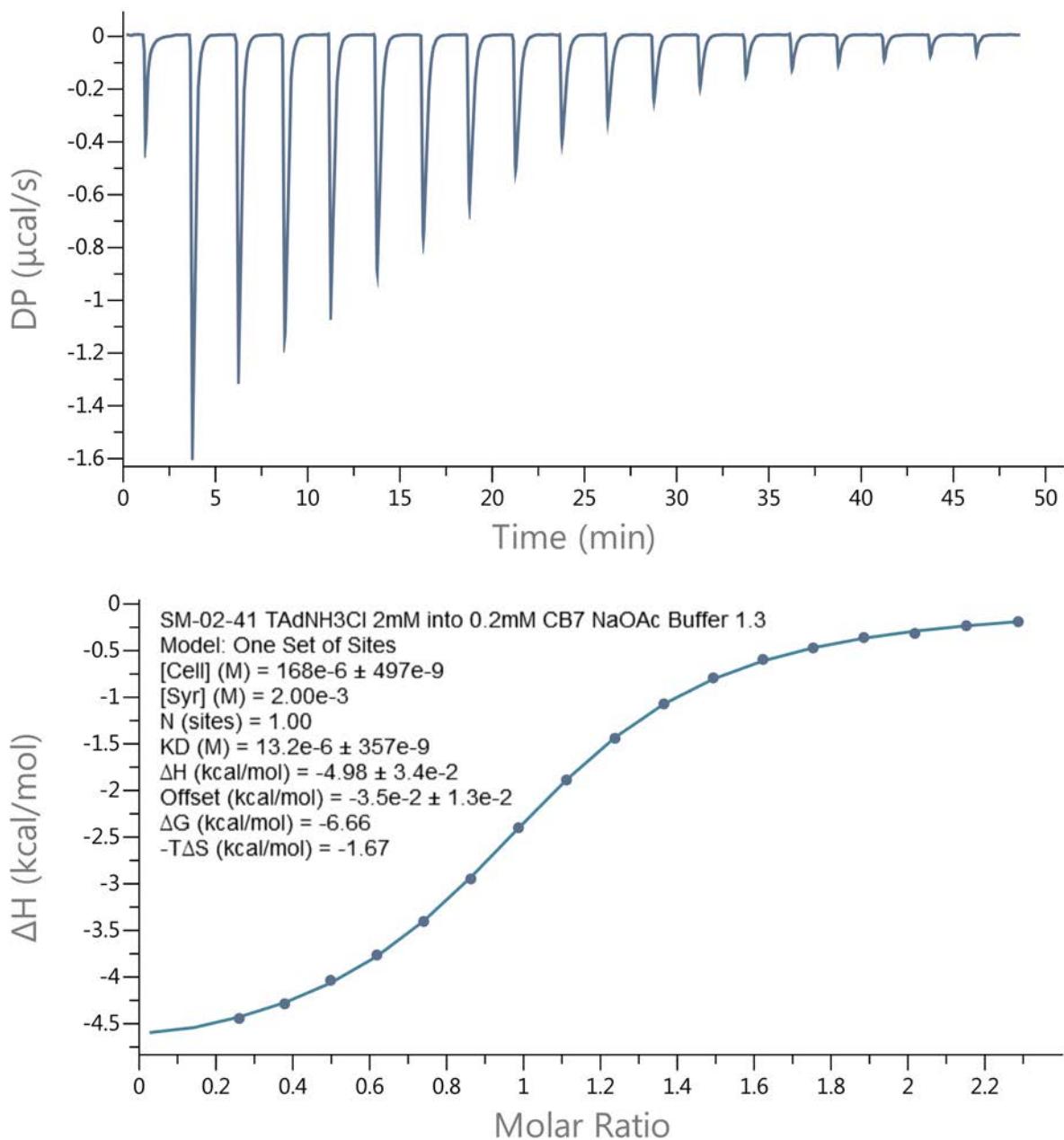
**Figure S16.** The expanded guest region for <sup>1</sup>H NMR spectra recorded for (600 MHz, RT, D<sub>2</sub>O) for: a) **G4** (1.0 mM), b) an equimolar mixture of **G4** and CB[8] (1.0 mM), and c) a mixture of **G4** (2.0 mM) and CB[8] (1.0 mM).

**Determination of  $K_a$  of Cucurbit[7]uril towards G1, G2 and G4 using Isothermal Titration Calorimetry (ITC).**

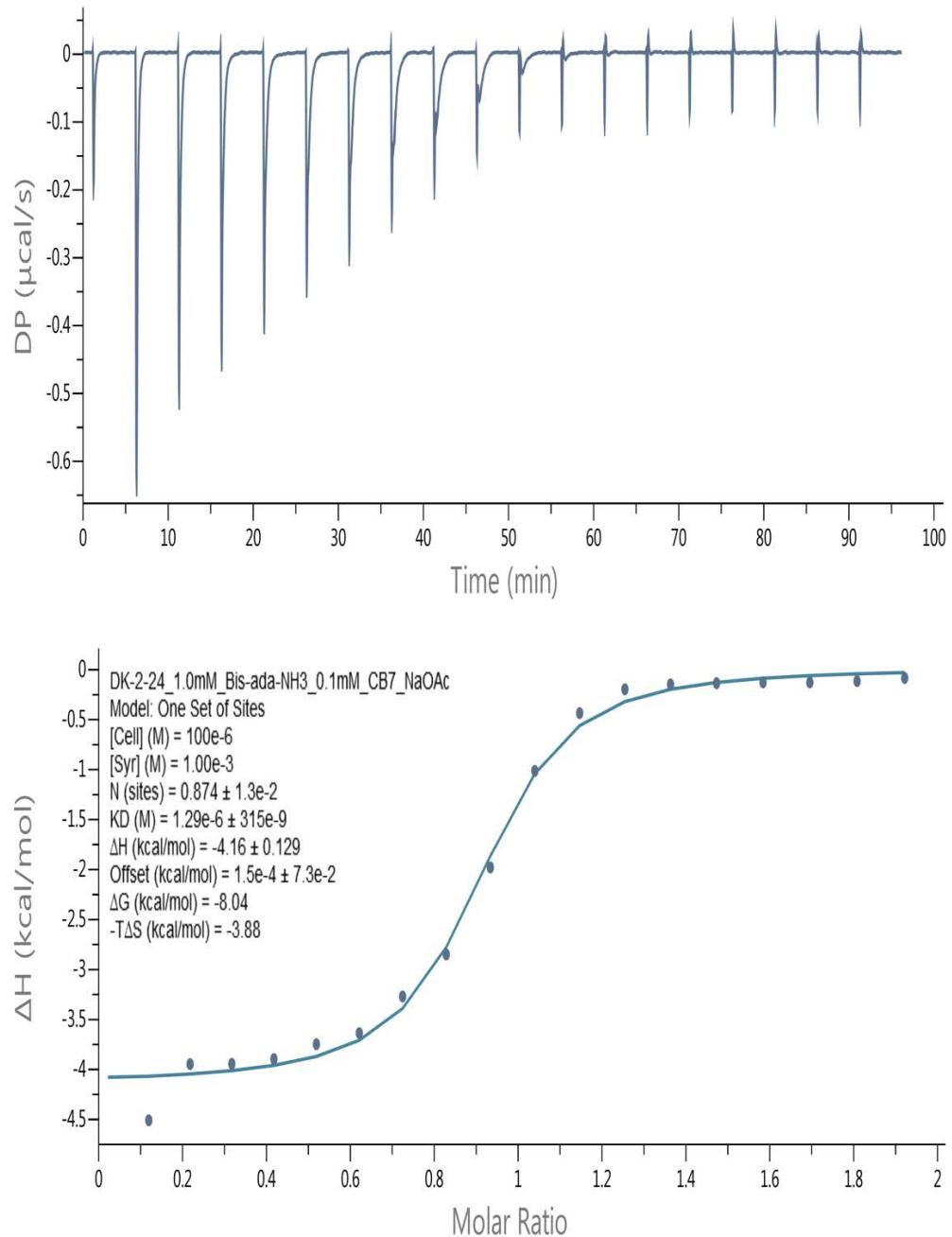
The binding data was fitted using the single set of sites binding model in MicroCal PEAQ-ITC analysis software.



**Figure S17.** a) Plot of change in DP vs time from the titration of CB[7] (0.145 mM) with **G1** (0 – 0.362 mM) in 50 mM NaOAc buffered H<sub>2</sub>O, pH = 4.74. b) Plot of the  $\Delta H$  as a function of molar ratio of CB[7]:**G1**. The solid line represents the best non-linear fit of the data to a 1:1 binding model ( $K_a = (1.6 \pm 0.1) \times 10^5 \text{ M}^{-1}$ ;  $\Delta H = (-10.4 \pm 0.076) \text{ kcal mol}^{-1}$ ).

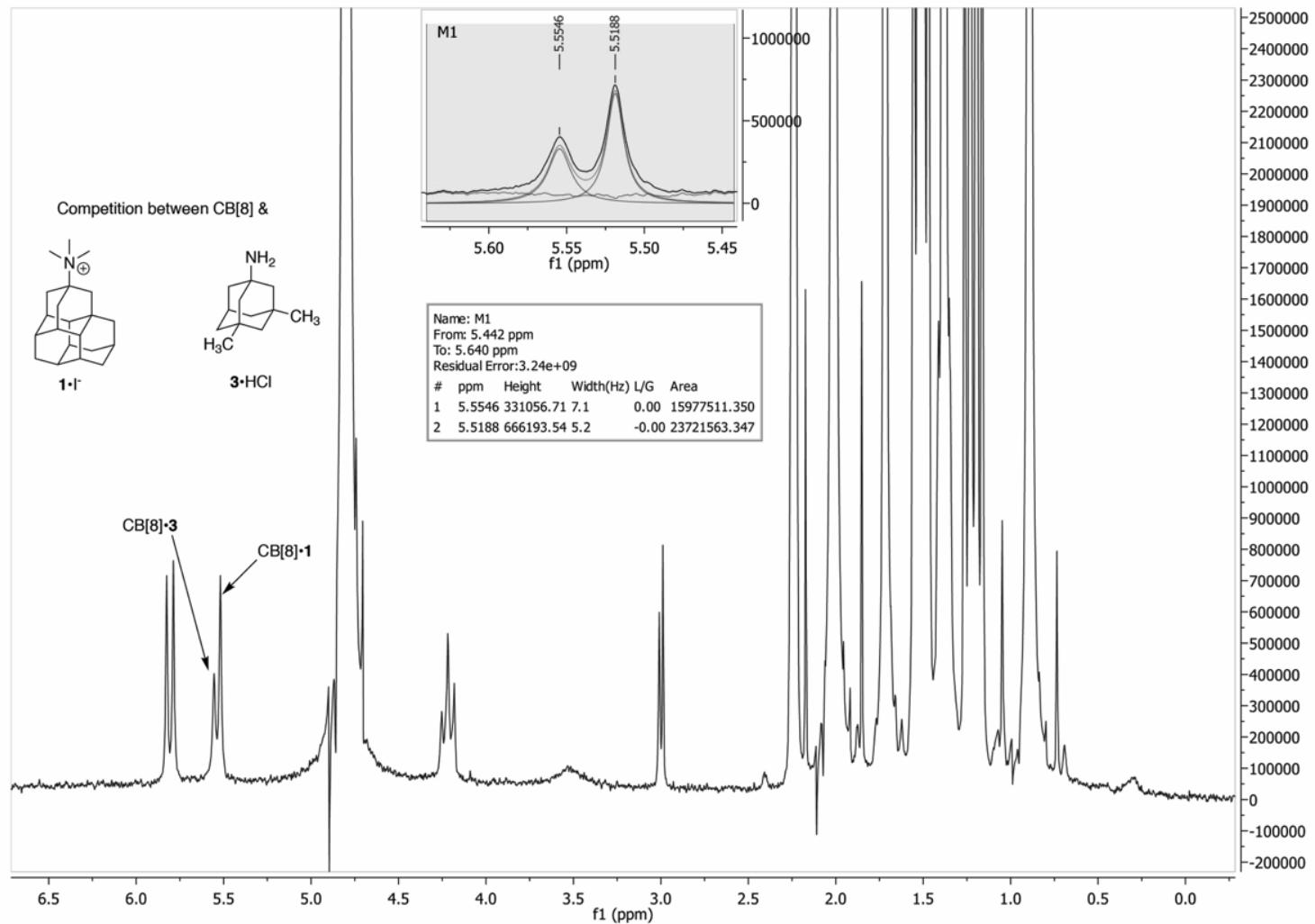


**Figure S18.** a) Plot of change in DP vs time from the titration of CB[7] (0.168 mM) and with **G2** (0 – 0.375 mM) in 50 mM NaOAc buffered H<sub>2</sub>O, pH = 4.74. b) Plot of the  $\Delta H$  as a function of molar ratio of CB[7]•G2. The solid line represents the best non-linear fit of the data to a 1:1 binding model ( $K_a = (7.5 \pm 0.2) \times 10^4 \text{ M}^{-1}$ ;  $\Delta H = (-4.98 \pm 0.034) \text{ kcal mol}^{-1}$ ).

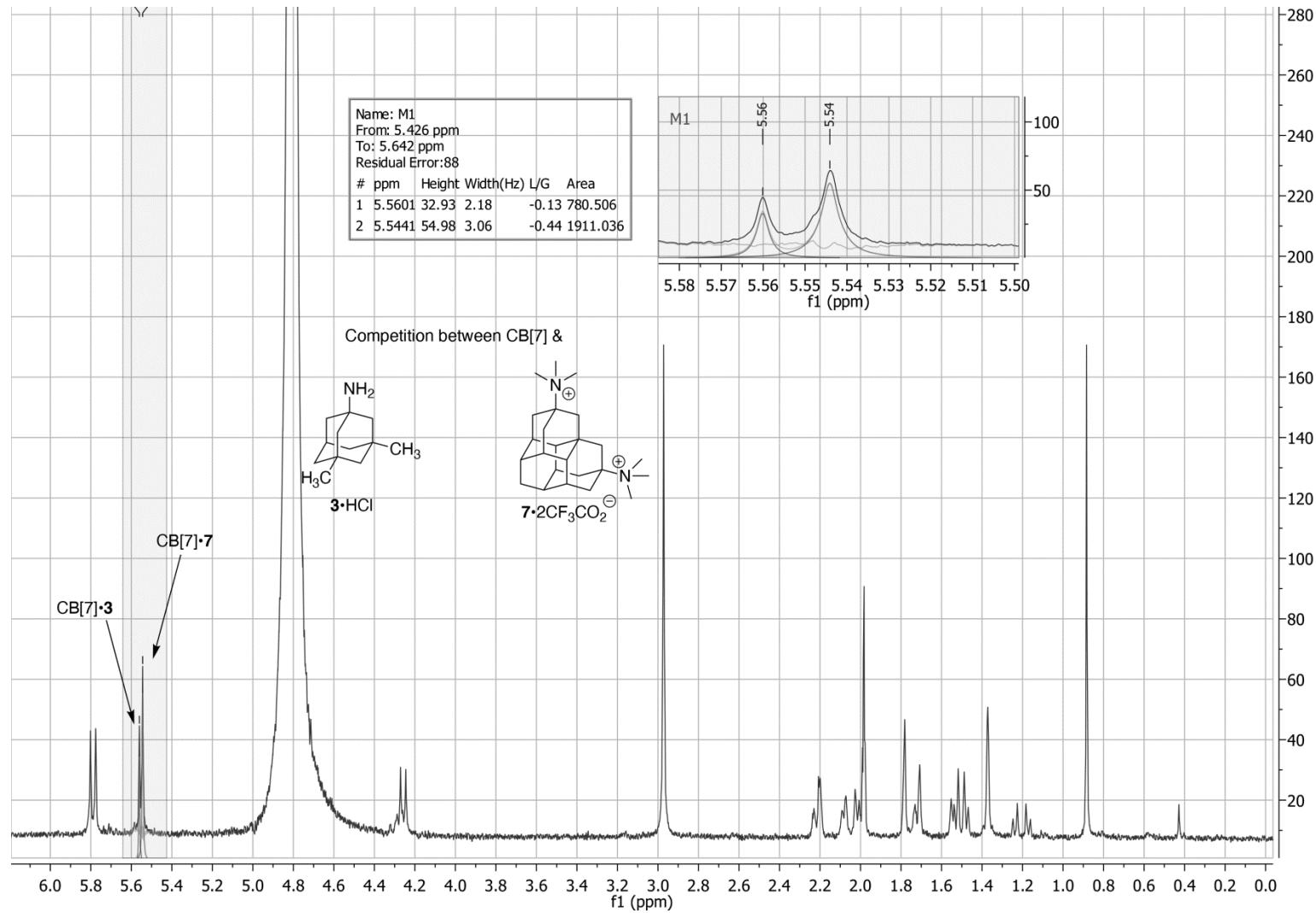


**Figure S19.** Isothermal Titration Calorimetry (ITC) curve obtained through direct binding titration studies. A solution of CB[7] (0.100 mM) in the cell was titrated with **G4** (1.00 mM) in the syringe at 298.0 K in 50 mM sodium acetate buffered water at pH 4.74.  $K_a = (7.75 \pm 1.89) \times 10^5 \text{ M}^{-1}$ . Average of 3 measurements:  $K_a = (6.73 \pm 1.41) \times 10^5 \text{ M}^{-1}$ ;  $\Delta H = (-3.79 \pm 0.10) \text{ kcal mol}^{-1}$ ;  $-T\Delta S = (-4.16 \pm 0.15) \text{ kcal mol}^{-1}$ ;  $\Delta G = (-7.96 \pm 0.11) \text{ kcal mol}^{-1}$ .

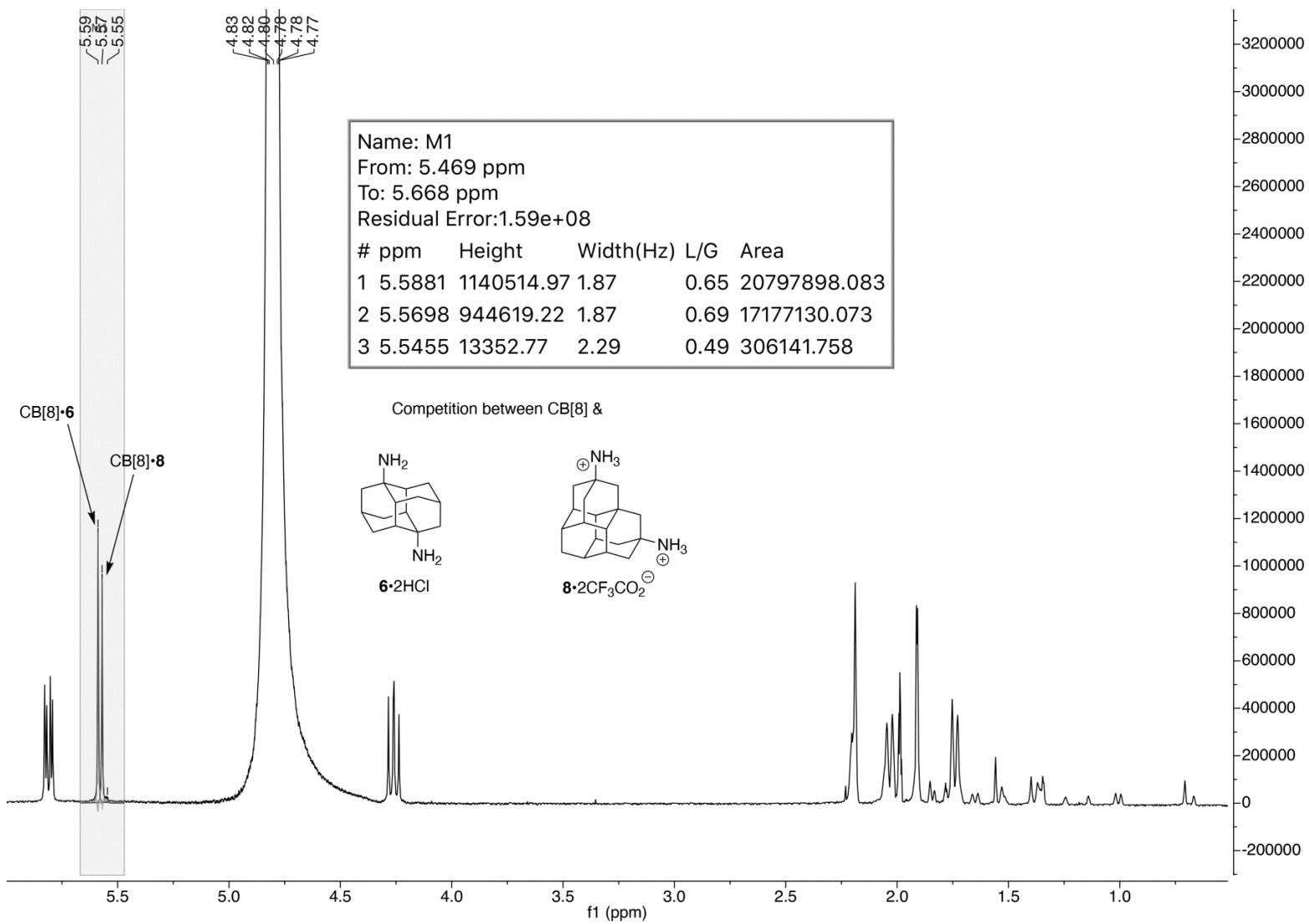
## Determination of $K_a$ of CB[7] and CB[8] towards 1, 7, and 8 using $^1\text{H}$ NMR Competition



**Figure S20.**  $^1\text{H}$  NMR spectra recorded (600 MHz, RT, 50 mM NaOAc Buffered  $\text{D}_2\text{O}$ , pH = 4.74) for a competitive mixture of CB[8] (0.100 mM), **C1** (16.5 mM), and **G1** (0.11 mM) at equilibrium.  $K_{\text{rel}} = 493.8$  (Equilibrium was studied starting from both directions and gave the same  $K_{\text{rel}}$  value).



**Figure S21.**  $^1\text{H}$  NMR spectra recorded (600 MHz, RT, 50 mM NaOAc Buffered  $\text{D}_2\text{O}$ , pH = 4.74) for a competitive mixture of CB[7] (0.100 mM), **C1** (0.22 mM), and **G3** (0.11 mM) at equilibrium.  $K_{\text{rel}} = 11.99$  (Equilibrium was studied starting from both directions and gave the same  $K_{\text{rel}}$  value).



**Figure S22.** <sup>1</sup>H NMR spectra recorded (600 MHz, RT, 50 mM NaOAc Buffered D<sub>2</sub>O, pH = 4.74) for a competitive mixture of CB[8] (0.100 mM), C2 (0.33 mM), and G4 (0.11 mM) at equilibrium.  $K_{\text{rel}} = 3.46$  (Equilibrium was studied starting from both directions and gave the same  $K_{\text{rel}}$  value).

## Affinimeter Output Files from the Competitive Titration of CB[8] + C3 with G3 or G4.

Experiment 1: Measuring the binding affinity of C3 and CB[8]



**Figure S23.** Cartoon representation of the stepwise 1:2 binding model used in Affinimeter for both titrations of C3 (A) and CB[8] (M) outlined in Figures S24-S29.

### Results

- Global  $\chi^2$ : **2.76e+00**
- $\chi^2$  for curve [1]: **4.15e+00**

**Table 1:** Correction parameters<sup>†</sup> fitted parameters in blue

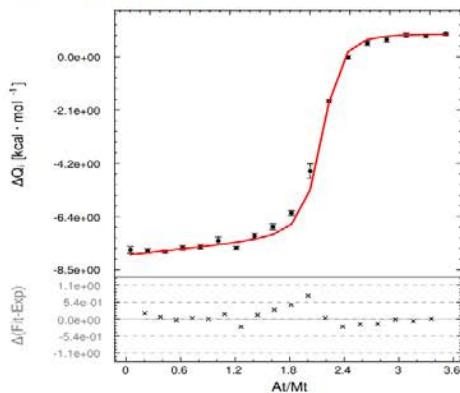
$\Delta H_{\text{dil}} [\text{cal} \cdot \text{mol}^{-1}]$	$Q_{\text{db}} [\text{cal}]$	$r_M$	$r_A$	$r_B$
$(1.1029 \pm 0.0081) \times 10^3$	$0.0000 \times 10^0$	$1.0000 \times 10^0$	$(9.8192 \pm 0.0309) \times 10^{-1}$	$1.0000 \times 10^0$

**Table 2:** Reaction parameters<sup>†</sup> fitted parameters in blue

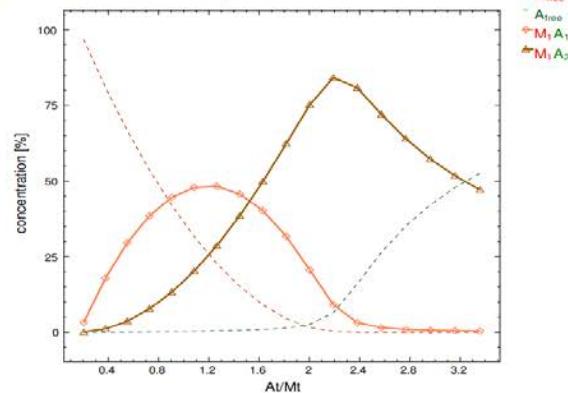
Reaction	$K [\text{M}^{-n}]$	$\Delta H [\text{cal} \cdot \text{mol}^{-1}]$
[1] Free species $\rightleftharpoons$ M <sub>1</sub> A <sub>1</sub>	$(2.6699 \pm 0.3224) \times 10^7$	$(-9.2300 \pm 0.0419) \times 10^0$
[2] M <sub>1</sub> A <sub>1</sub> + A <sub>1</sub> $\rightleftharpoons$ M <sub>1</sub> A <sub>2</sub>	$(7.4697 \pm 1.7486) \times 10^6$	$(-8.2808 \pm 0.0638) \times 10^0$

**Figure S24.** Results from the titration of C3 (A) titrated into CB[8] (B) as a part of the global fit for experiment 1.  $\Delta H_{\text{dil}}$  = heat of dilution;  $r_A$  = % of active C3 concentration for titration 1. Cell: CB[8] (0.02 mM); Syringe: C3 (0.350 mM); Number of Injections: 18.

**Figure 1:** Fitted Isotherm and Residuals

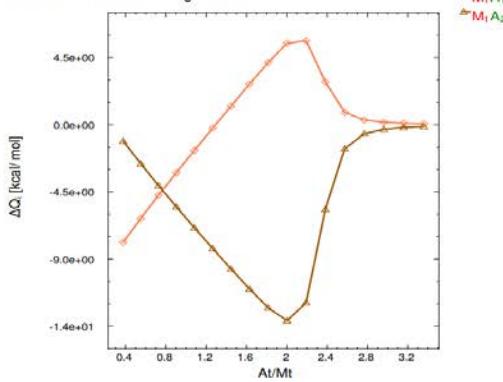


**Figure 3:** Distribution of chemical species

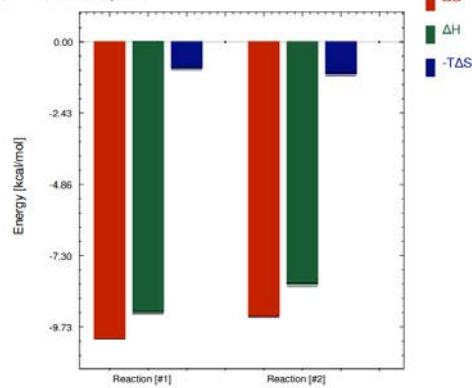


**Figure S25.** Left) Integrated signal from titration 1 and best fit line from global fit (top) and the residuals of the fit (bottom). Right) Percent concentration of each species present in the cell over time with respect to the total CB[8] concentration (M<sub>free</sub>) or total C3 concentration (A<sub>free</sub>, M<sub>1</sub>A<sub>1</sub>, M<sub>1</sub>A<sub>2</sub>).

**Figure 2:** Contributions to the Binding Isotherm



**Figure 4:** Thermal Footprints



**Figure S26.** Left) Total contribution of each complexation reaction to the overall integrated signal over time for titration 2. Right) Graphical representation of  $\Delta G$ ,  $\Delta H$ , and  $-T\Delta S$  for each complexation reaction.

### Results

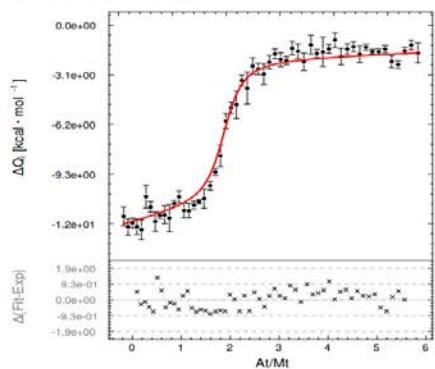
- Global  $\chi^2$ : **2.76e+00**
- $\chi^2$  for curve [2]: **2.29e+00**

**Table 3:** Correction parameters<sup>†</sup> fitted parameters in blue

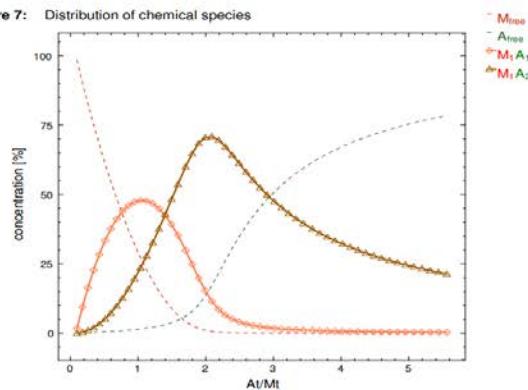
$\Delta H_{\text{dil}} [\text{cal} \cdot \text{mol}^{-1}]$	$Q_{\text{db}} [\text{cal}]$	$r_M$	$r_A$	$r_B$
$(-2.9819 \pm 0.0212) \times 10^3$	$0.0000e+00$	$1.0000e+00$	$(1.0325 \pm 0.0023) \times 10^0$	$1.0000e+00$

**Figure S27.** Results from the titration of **C3** (A) titrated into CB[8] (B) as a part of the global fit for experiment 1.  $\Delta H_{\text{dil}}$  = heat of dilution;  $r_A$  = % of active **C3** concentration for titration 1. Cell: CB[8] (0.005 mM); Syringe: **C3** (0.040 mM); Number of Injections: 54.

**Figure 5:** Fitted Isotherm and Residuals

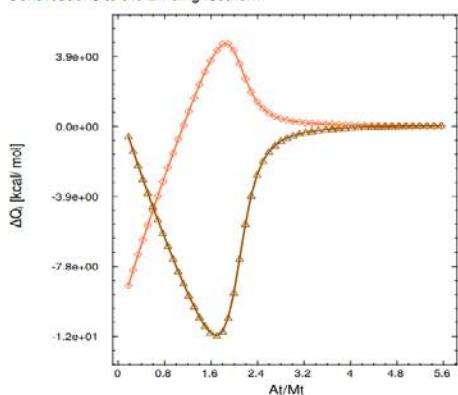


**Figure 7:** Distribution of chemical species

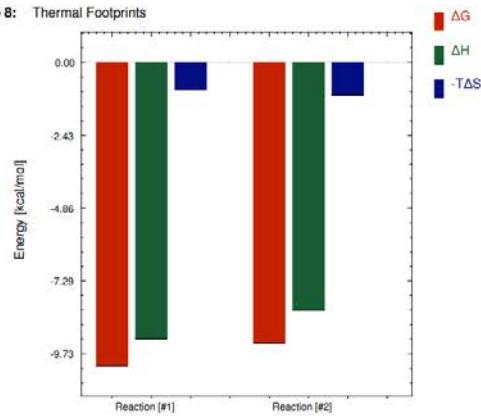


**Figure S28.** Left) Integrated signal from titration 2 and best fit line from global fit (top) and the residuals of the fit (bottom). Right) Percent concentration of each species present in the cell over time with respect to the total CB[8] concentration ( $M_{\text{free}}$ ) or total **C3** concentration ( $A_{\text{free}}$ ,  $M_1A_1$ ,  $M_1A_2$ ).

**Figure 6:** Contributions to the Binding Isotherm



**Figure 8:** Thermal Footprints



**Figure S29.** Left) Total contribution of each complexation reaction to the overall integrated signal over time for titration 2. Right) Graphical representation of  $\Delta G$ ,  $\Delta H$ , and  $-T\Delta S$  for each complexation reaction.

Experiment 2: Measuring the binding affinity of **G3** and CB[8] by using **C3** as a competitor.



**Figure S30.** Cartoon representation of the stepwise 1:2 binding model used in Affinimeter for both titrations of **C3** (A) and CB[8] (M) outlined in Figures S31-S36.

### Results

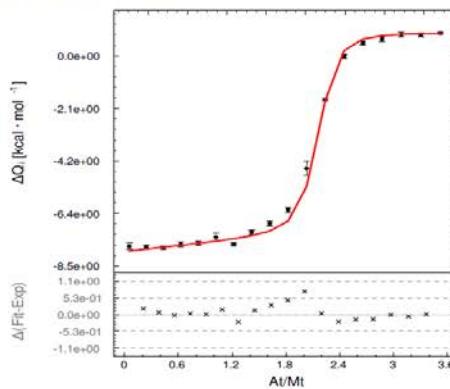
- Global  $\chi^2$ : **2.81e+00**
- $\chi^2$  for curve [1]: **4.09e+00**

**Table 1:** Correction parameters<sup>†</sup> fitted parameters in blue

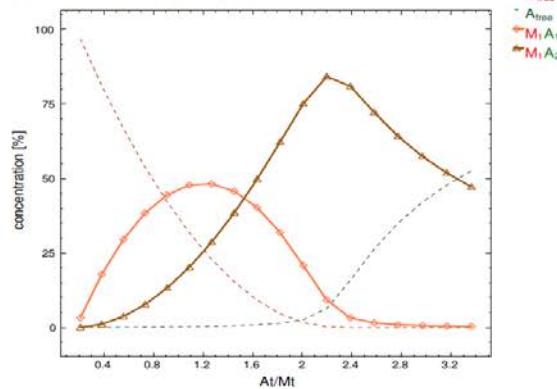
$\Delta H_{\text{dil}} [\text{cal} \cdot \text{mol}^{-1}]$	$Q_{\text{db}} [\text{cal}]$	$x_M$	$x_A$	$x_B$
$(1.1023 \pm 0.0061) \times 10^3$	$0.000e+00$	$1.000e+00$	$(9.8076 \pm 0.0224) \times 10^{-1}$	$1.000e+00$

**Figure S31.** Results from the titration of **C3** (A) titrated into CB[8] (M) as a part of the global fit for experiment 2.  $\Delta H_{\text{dil}}$  = heat of dilution;  $r_A$  = % of active **C3** concentration for titration 1. Cell: CB[8] (0.02 mM); Syringe: **C3** (0.350 mM); Number of Injections: 18.

**Figure 1:** Fitted Isotherm and Residuals

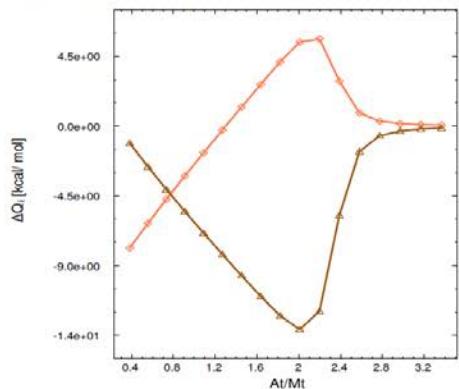


**Figure 3:** Distribution of chemical species

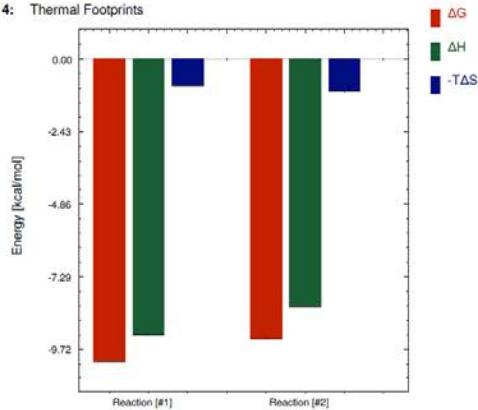


**Figure S32.** Left) Integrated signal from titration 1 and best fit line from global fit (top) and the residuals of the fit (bottom). Right) Percent concentration of each species present in the cell over time with respect to the total CB[8] concentration ( $M_{\text{free}}$ ) or total **C3** concentration ( $A_{\text{free}}$ ,  $M_1A_1$ ,  $M_1A_2$ ).

**Figure 2:** Contributions to the Binding Isotherm



**Figure 4:** Thermal Footprints



**Figure S33.** Left) Total contribution of each complexation reaction to the overall integrated signal over time for titration 1. Right) Graphical representation of  $\Delta G$ ,  $\Delta H$ , and  $-T\Delta S$  for each complexation reaction.

## Results

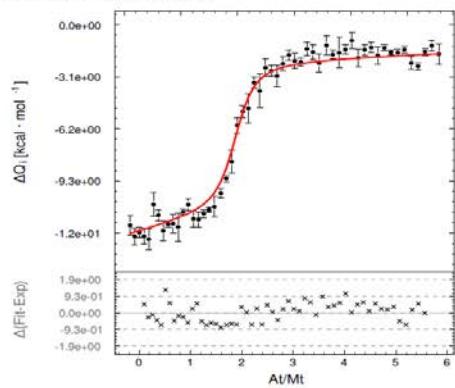
- Global  $\chi^2$ : **2.81e+00**
- $\chi^2$  for curve [2]: **2.27e+00**

**Table 3:** Correction parameters<sup>†</sup> fitted parameters in blue

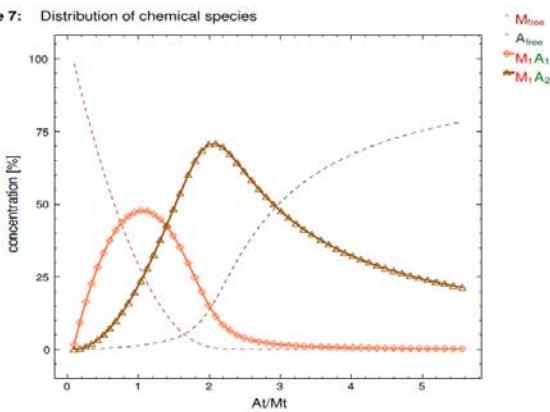
$\Delta H_{\text{dil}} [\text{cal} \cdot \text{mol}^{-1}]$	$Q_{\text{db}} [\text{cal}]$	$r_M$	$r_A$	$r_B$
$(-2.9759 \pm 0.0157)e+03$	$0.000e+00$	$1.000e+00$	$(1.0323 \pm 0.0017)e+00$	$1.000e+00$

**Figure S34.** Results from the titration of **C3** (A) titrated into **CB[8]** (B) as a part of the global fit for experiment 2.  $\Delta H_{\text{dil}}$  = heat of dilution;  $r_A$  = % of active **C3** concentration for titration 2. Cell: **CB[8]** (0.005 mM); Syringe: **C3** (0.040 mM); Number of Injections: 54.

**Figure 5:** Fitted Isotherm and Residuals

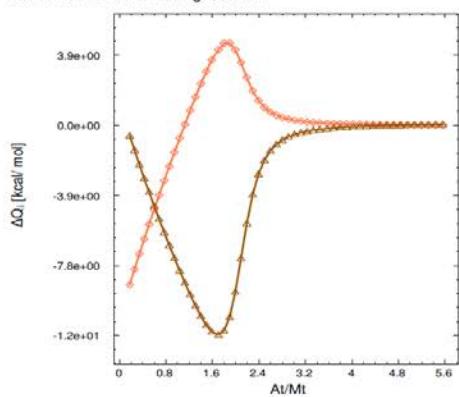


**Figure 7:** Distribution of chemical species

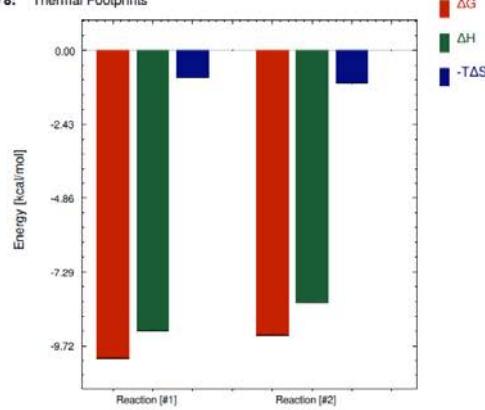


**Figure S35.** Left) Integrated signal from titration 2 and best fit line from global fit (top) and the residuals of the fit (bottom). Right) Percent concentration of each species present in the cell over time with respect to the total **CB[8]** concentration ( $M_{\text{free}}$ ) or total **C3** concentration ( $A_{\text{free}}$ ,  $M_1A_1$ ,  $M_1A_2$ ).

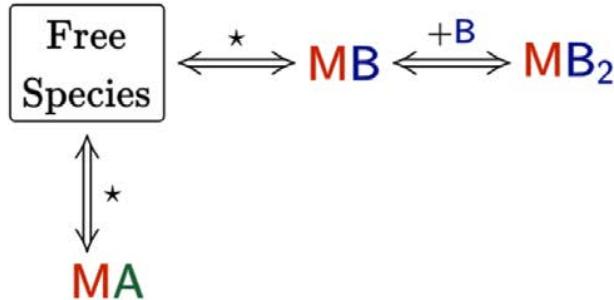
**Figure 6:** Contributions to the Binding Isotherm



**Figure 8:** Thermal Footprints



**Figure S36.** Left) Total contribution of each complexation reaction to the overall integrated signal over time for titration 2. Right) Graphical representation of  $\Delta G$ ,  $\Delta H$ , and  $-T\Delta S$  for each complexation reaction.



**Figure S37.** Cartoon representation of the stepwise competition binding model used in Affinimeter for the titration of **G3** (A) into a mixture of CB[8] (M) and **C3** (B) outlined in Figures S41-S43.

## Results

- Global  $\chi^2$ : **2.81e+00**
- $\chi^2$  for curve [3]: **2.93e+00**

**Table 5:** Correction parameters<sup>†</sup> *fitted parameters in blue*

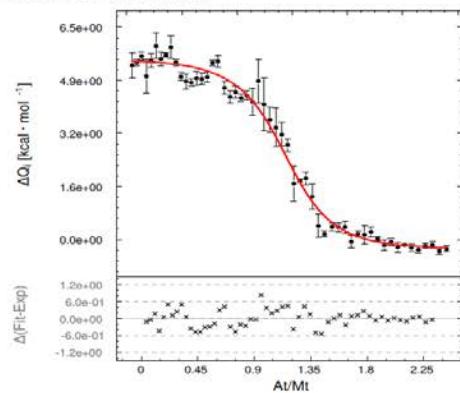
$\Delta H_{\text{dil}} [\text{cal} \cdot \text{mol}^{-1}]$	$Q_{\text{db}} [\text{cal}]$	$r_M$	$r_A$	$r_B$
$(-8.3660 \pm 0.1136) \times 10^2$	$0.0000 \times 10^0$	$1.0000 \times 10^0$	$(8.5858 \pm 0.0145) \times 10^{-1}$	$(1.4040 \pm 0.0115) \times 10^0$

**Table 6:** Reaction parameters<sup>†</sup> *fitted parameters in blue*

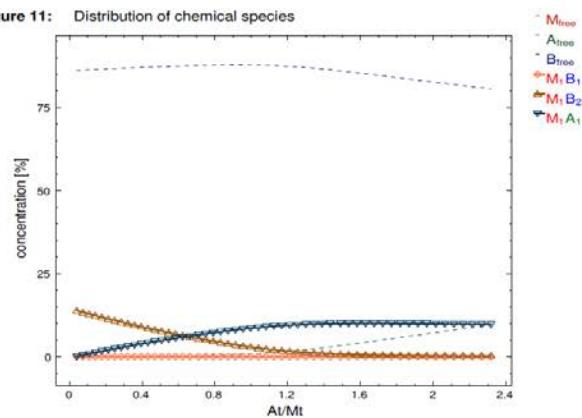
Reaction	$K [\text{M}^{-n}]$	$\Delta H [\text{cal} \cdot \text{mol}^{-1}]$
[1] Free species $\rightleftharpoons$ <b>M<sub>1</sub>B<sub>1</sub></b>	$(2.6496 \pm 0.2385) \times 10^7$	$(-9.2416 \pm 0.0310) \times 10^3$
[2] <b>M<sub>1</sub>B<sub>1</sub></b> + <b>B<sub>1</sub></b> $\rightleftharpoons$ <b>M<sub>1</sub>B<sub>2</sub></b>	$(7.4659 \pm 1.2976) \times 10^6$	$(-8.2917 \pm 0.0472) \times 10^3$
[3] Free species $\rightleftharpoons$ <b>M<sub>1</sub>A<sub>1</sub></b>	$(1.1486 \pm 0.1689) \times 10^{13}$	$(-1.0076 \pm 0.0045) \times 10^4$

**Figure S38.** Results from the titration of **G3** (A) into a mixture of CB[8] (M) and **C3** (B) as a part of the global fit for experiment 2.  $\Delta H_{\text{dil}}$  = heat of dilution;  $r_A$  = % of active **C3** concentration for titration 3. Cell: CB[8] (0.030 mM), **C3** (0.175 mM); Syringe: **G3** (0.100 mM); Number of Injections: 54.

**Figure 9:** Fitted Isotherm and Residuals

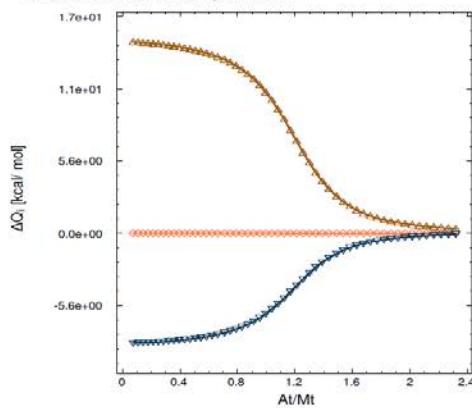


**Figure 11:** Distribution of chemical species

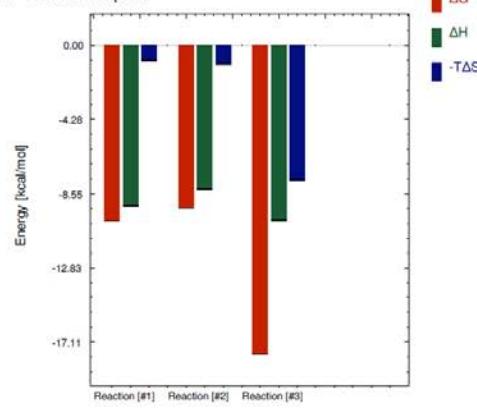


**Figure S39.** Left) Integrated signal from titration 3 and best fit line from global fit (top) and the residuals of the fit (bottom). Right) Percent concentration of each species present in the cell over time with respect to the total CB[8] concentration ( $M_{\text{free}}$ ), total C3 concentration ( $B_{\text{free}}$ ,  $M_1B_1$ ,  $M_1B_2$ ), or total G3 concentration ( $A_{\text{free}}$ ,  $M_1A_1$ ).

**Figure 10:** Contributions to the Binding Isotherm



**Figure 12:** Thermal Footprints



**Figure S40.** Left) Total contribution of each complexation reaction to the overall integrated signal over time for titration 3. Right) Graphical representation of  $\Delta G$ ,  $\Delta H$ , and  $-T\Delta S$  for each complexation reaction.

Experiment 3: Measuring the binding affinity of **G4** and CB[8] by using **C3** as a competitor



**Figure S41.** Cartoon representation of the stepwise 1:2 binding model used in Affinimeter for both titrations of **C3** (A) and CB[8] (M) outlined in Figures S42-S47.

### Results

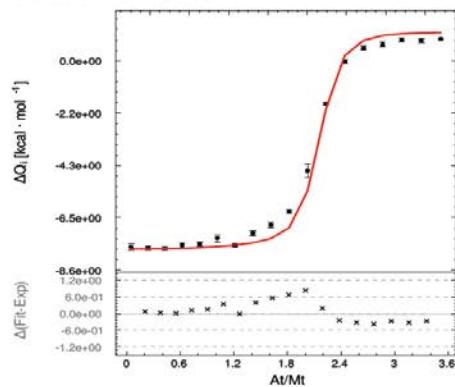
- Global  $\chi^2$ : **3.98e+00**
- $\chi^2$  for curve [3]: **1.22e+01**

**Table 5:** Correction parameters<sup>†</sup> fitted parameters in blue

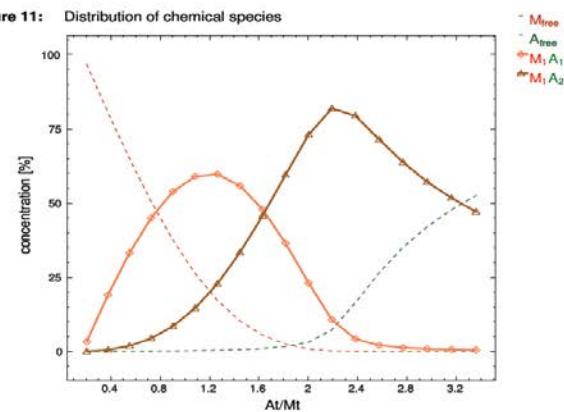
$\Delta H_{\text{dil}} [\text{cal} \cdot \text{mol}^{-1}]$	$Q_{\text{db}} [\text{cal}]$	$r_M$	$r_A$	$r_B$
(1.4547 ± 0.0191)e+03	0.000e+00	1.000e+00	(9.7919 ± 0.0324)e-01	1.000e+00

**Figure S42.** Results from the titration of **C3** (A) titrated into CB[8] (B) as a part of the global fit for experiment 3.  $\Delta H_{\text{dil}}$  = heat of dilution;  $r_A$  = % of active **C3** concentration for titration 1. Cell: CB[8] (0.02 mM); Syringe: **C3** (0.350 mM); Number of Injections: 18.

**Figure 9:** Fitted Isotherm and Residuals

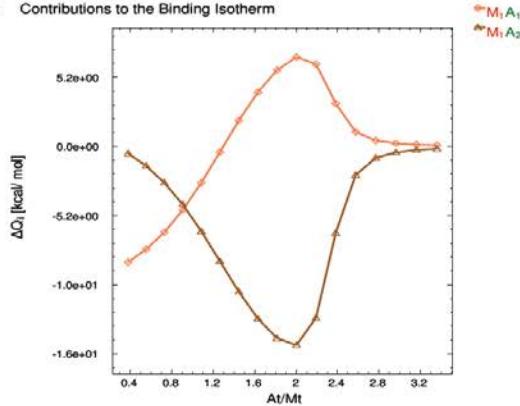


**Figure 11:** Distribution of chemical species

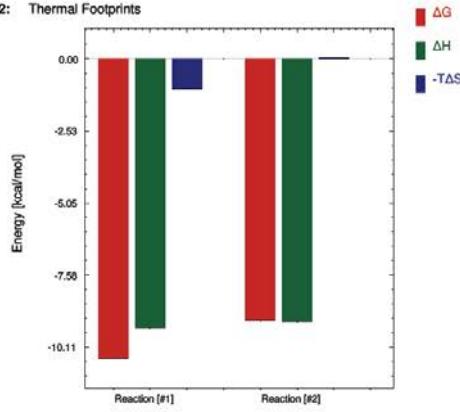


**Figure S43.** Left) Integrated signal from titration 1 and best fit line from global fit (top) and the residuals of the fit (bottom). Right) Percent concentration of each species present in the cell over time with respect to the total CB[8] concentration ( $M_{\text{free}}$ ) or total **C3** concentration ( $A_{\text{free}}$ ,  $M_1A_1$ ,  $M_1A_2$ ).

**Figure 10:** Contributions to the Binding Isotherm



**Figure 12:** Thermal Footprints



**Figure S44.** Left) Total contribution of each complexation reaction to the overall integrated signal over time for titration 1. Right) Graphical representation of  $\Delta G$ ,  $\Delta H$ , and  $-T\Delta S$  for each complexation reaction.

## Results

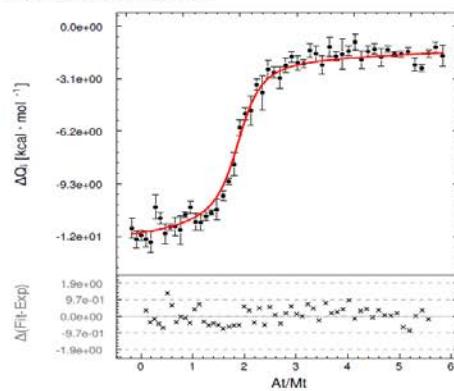
- Global  $\chi^2$ : **3.98e+00**

**Table 3:** Correction parameters<sup>f</sup> fitted parameters in blue

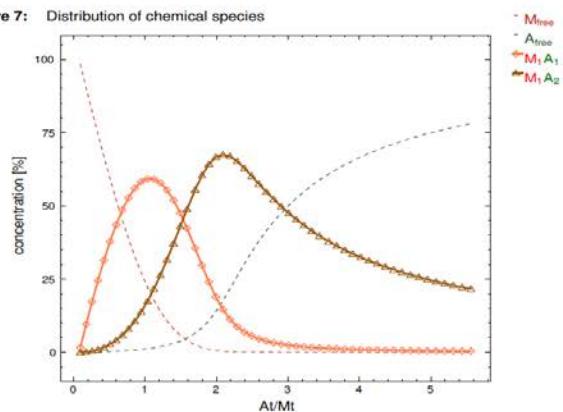
$\Delta H_{\text{dil}} [\text{cal} \cdot \text{mol}^{-1}]$	$Q_{\text{db}} [\text{cal}]$	$r_M$	$r_A$	$r_B$
$(-2.7148 \pm 0.0169) \times 10^3$	$0.000e+00$	$1.000e+00$	$(1.0176 \pm 0.0017) \times 10^0$	$1.000e+00$

**Figure S45.** Results from the titration of **C3** (A) titrated into CB[8] (B) as a part of the global fit for experiment 3.  $\Delta H_{\text{dil}}$  = heat of dilution;  $r_A$  = % of active **C3** concentration for titration 2. Cell: CB[8] (0.005 mM); Syringe: **C3** (0.040 mM); Number of Injections: 54.

**Figure 5:** Fitted Isotherm and Residuals

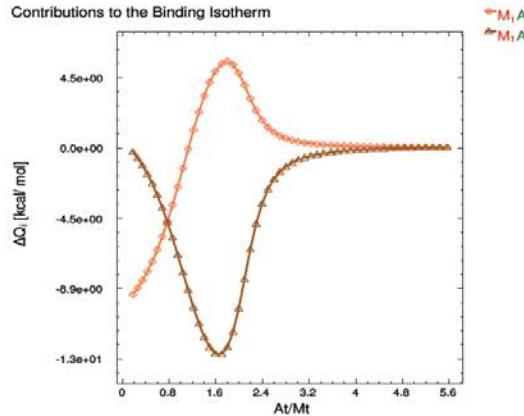


**Figure 7:** Distribution of chemical species

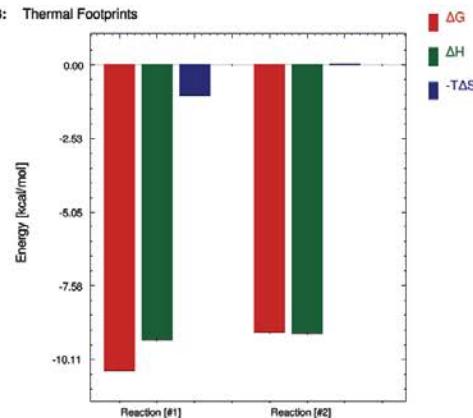


**Figure S46.** Left) Integrated signal from titration 2 and best fit line from global fit (top) and the residuals of the fit (bottom). Right) Percent concentration of each species present in the cell over time with respect to the total CB[8] concentration ( $M_{\text{free}}$ ) or total **C3** concentration ( $A_{\text{free}}$ ,  $M_1A_1$ ,  $M_1A_2$ ).

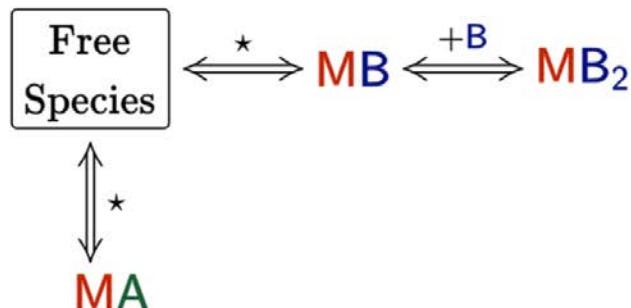
**Figure 6:** Contributions to the Binding Isotherm



**Figure 8:** Thermal Footprints



**Figure S47.** Left) Total contribution of each complexation reaction to the overall integrated signal over time for titration 2. Right) Graphical representation of  $\Delta G$ ,  $\Delta H$ , and  $-T\Delta S$  for each complexation reaction.



**Figure S48.** Cartoon representation of the stepwise competition binding model used in Affinimeter for the titration of **G4** (A) into a mixture of **CB[8]** (M) and **C3** (B) outlined in Figures S52-S57.

## Results

- Global  $\chi^2$ : **3.98e+00**
- $\chi^2$  for curve [1]: **4.38e+00**

**Table 1:** Correction parameters<sup>t</sup> fitted parameters in blue

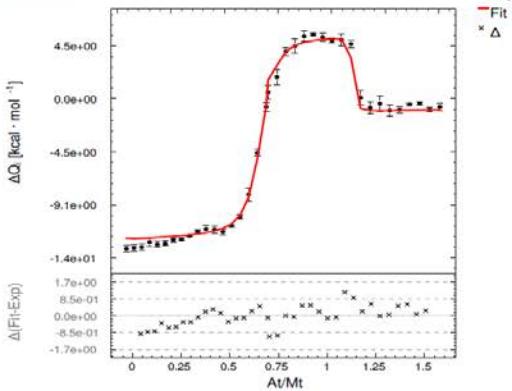
$\Delta H_{\text{dil}} [\text{cal} \cdot \text{mol}^{-1}]$	$Q_{\text{db}} [\text{cal}]$	$r_M$	$r_A$	$r_B$
$(-1.4297 \pm 0.0316) \times 10^3$	$0.000 \times 10^0$	$1.000 \times 10^0$	$(9.2598 \pm 0.0330) \times 10^{-1}$	$(1.0598 \pm 0.0060) \times 10^0$

**Table 2:** Reaction parameters<sup>t</sup> fitted parameters in blue

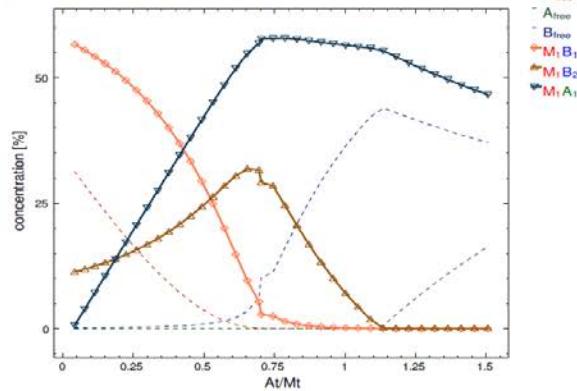
Reaction	$K [\text{M}^{-n}]$	$\Delta H [\text{cal} \cdot \text{mol}^{-1}]$
[1] Free species $\rightleftharpoons$ <b>M<sub>1</sub>B<sub>1</sub></b>	$(4.9349 \pm 0.3942) \times 10^7$	$(-9.4436 \pm 0.0416) \times 10^3$
[2] <b>M<sub>1</sub>B<sub>1</sub></b> + <b>B<sub>1</sub></b> $\rightleftharpoons$ <b>M<sub>1</sub>B<sub>2</sub></b>	$(5.4213 \pm 0.6600) \times 10^6$	$(-9.2195 \pm 0.0661) \times 10^3$
[3] Free species $\rightleftharpoons$ <b>M<sub>1</sub>A<sub>1</sub></b>	$(1.1418 \pm 0.2161) \times 10^{14}$	$(-1.1501 \pm 0.0050) \times 10^4$

**Figure S49.** Results from the titration of **G4** (A) into a mixture of **CB[8]** (M) and **C3** (B) as a part of the global fit for experiment 3.  $\Delta H_{\text{dil}}$  = heat of dilution;  $r_A$  = % of active **C3** concentration for titration 3. Cell: **CB[8]** (0.020 mM), **C3** (0.015 mM); Syringe: **G4** (0.070 mM); Number of Injections: 54.

**Figure 1:** Fitted Isotherm and Residuals

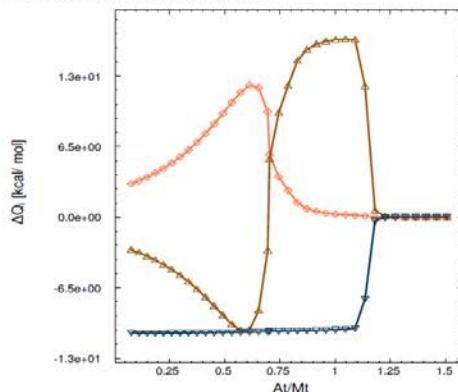


**Figure 3:** Distribution of chemical species

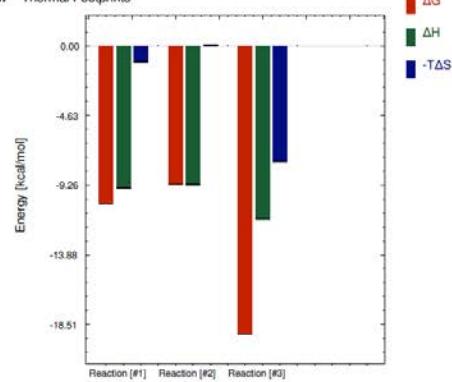


**Figure S50.** Left) Integrated signal from titration 3 and best fit line from global fit (top) and the residuals of the fit (bottom). Right) Percent concentration of each species present in the cell over time with respect to the total CB[8] concentration ( $M_{\text{free}}$ ), total C3 concentration ( $B_{\text{free}}$ ,  $M_1B_1$ ,  $M_1B_2$ ), or total G4 concentration ( $A_{\text{free}}$ ,  $M_1A_1$ ).

**Figure 2:** Contributions to the Binding Isotherm



**Figure 4:** Thermal Footprints



**Figure S51.** Left) Total contribution of each complexation reaction to the overall integrated signal over time for titration 3. Right) Graphical representation of  $\Delta G$ ,  $\Delta H$ , and  $-T\Delta S$  for each complexation reaction.

## Results

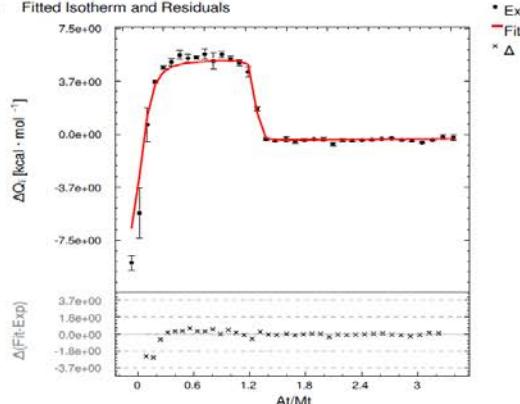
- Global  $\chi^2$ : **3.98e+00**
- $\chi^2$  for curve [4]: **2.68e+00**

**Table 7:** Correction parameters<sup>t</sup> fitted parameters in blue

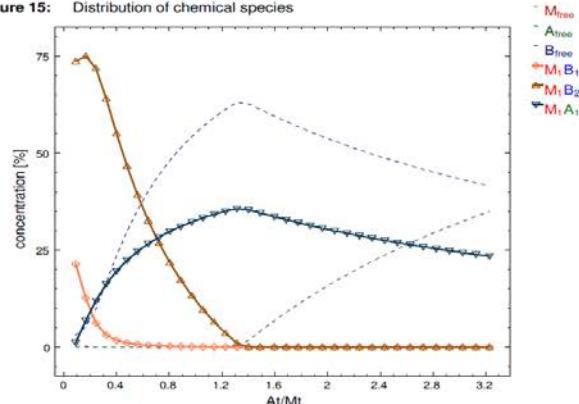
$\Delta H_{\text{dil}} [\text{kcal} \cdot \text{mol}^{-1}]$	$Q_{\text{db}} [\text{cal}]$	$r_M$	$r_A$	$r_B$
$(-4.8798 \pm 0.0191) \cdot 10^2$	$0.000 \cdot 10^0$	$1.000 \cdot 10^0$	$(7.9695 \pm 0.0300) \cdot 10^{-1}$	$(8.8648 \pm 0.0244) \cdot 10^{-1}$

**Figure S52.** Results from the titration of **G4** (A) into a mixture of **CB[8]** (M) and **C3** (B) as a part of the global fit for experiment 3.  $\Delta H_{\text{dil}}$  = heat of dilution;  $r_A$  = % of active **C3** concentration for titration 4. Cell: **CB[8]** (0.020 mM), **C3** (0.040 mM); Syringe: **G4** (0.150 mM); Number of Injections: 54.

**Figure 13:** Fitted Isotherm and Residuals

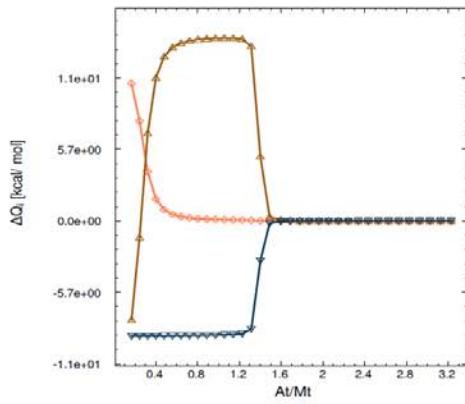


**Figure 15:** Distribution of chemical species

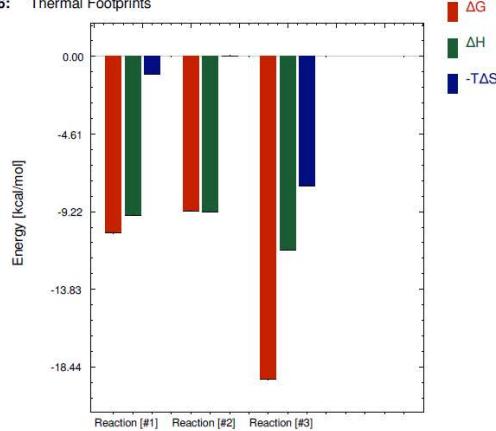


**Figure S53.** Left) Integrated signal from titration 4 and best fit line from global fit (top) and the residuals of the fit (bottom). Right) Percent concentration of each species present in the cell over time with respect to the total CB[8] concentration ( $M_{\text{free}}$ ), total C3 concentration ( $B_{\text{free}}$ ,  $M_1B_1$ ,  $M_1B_2$ ), or total G4 concentration ( $A_{\text{free}}$ ,  $M_1A_1$ ).

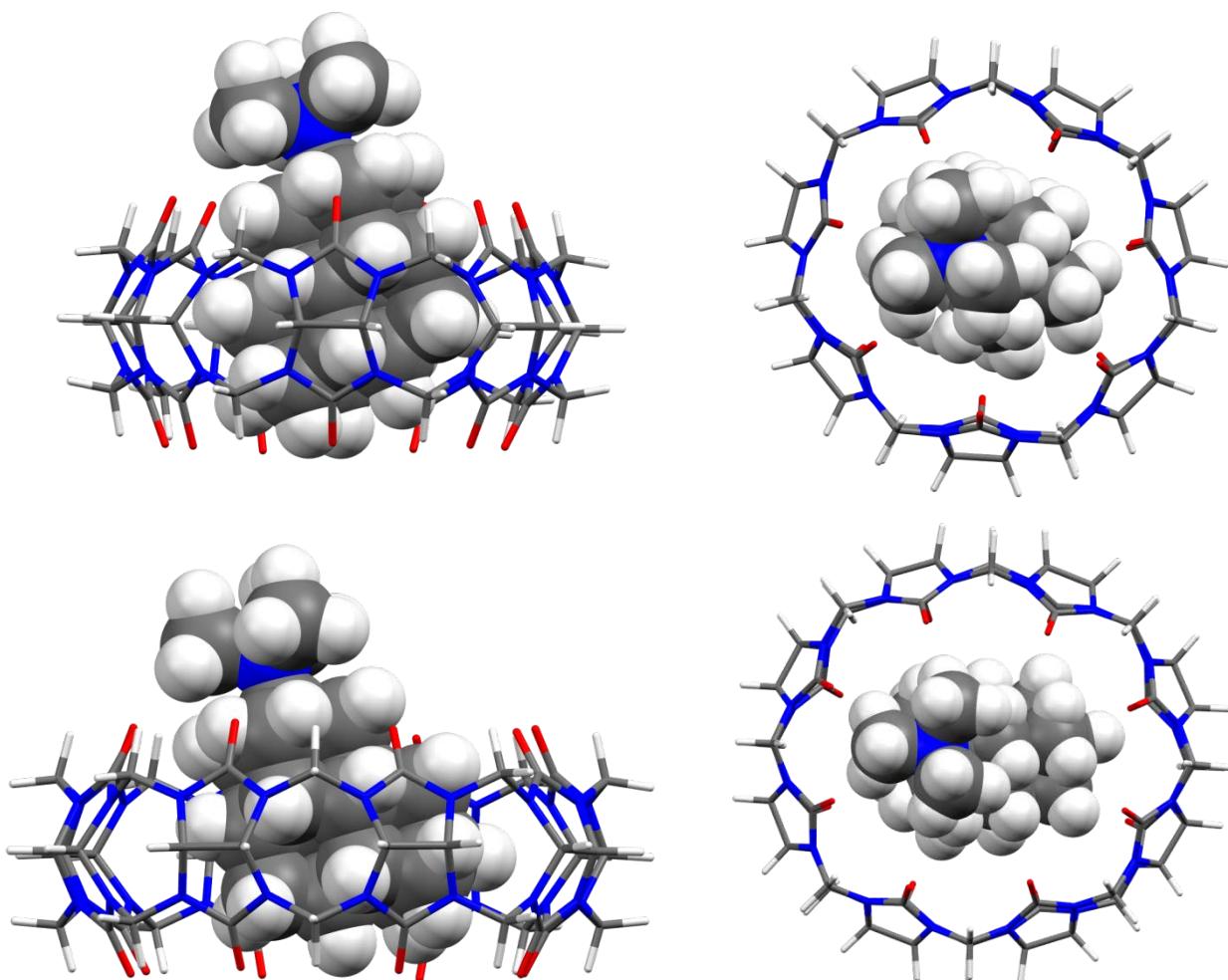
**Figure 14:** Contributions to the Binding Isotherm



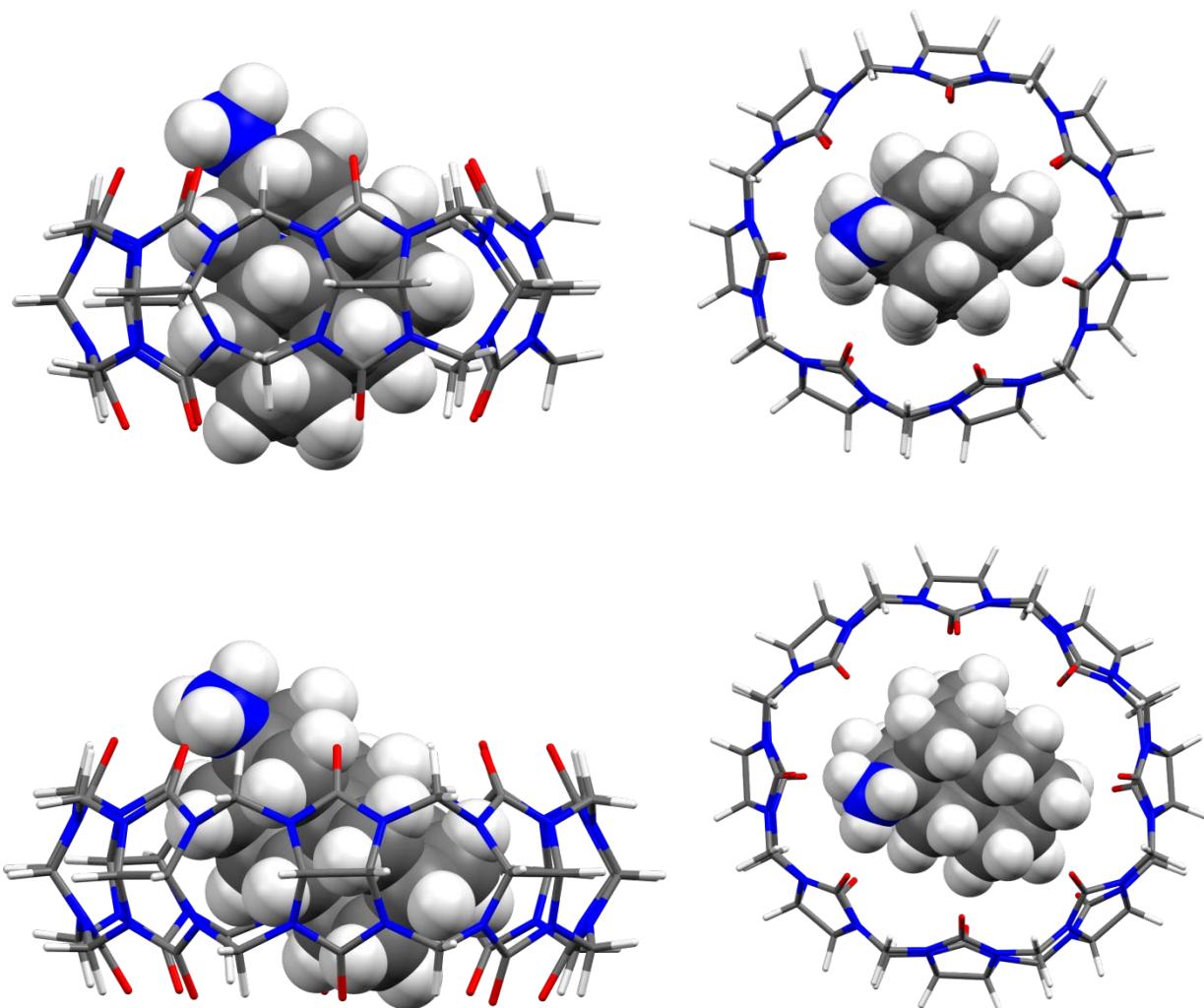
**Figure 16:** Thermal Footprints



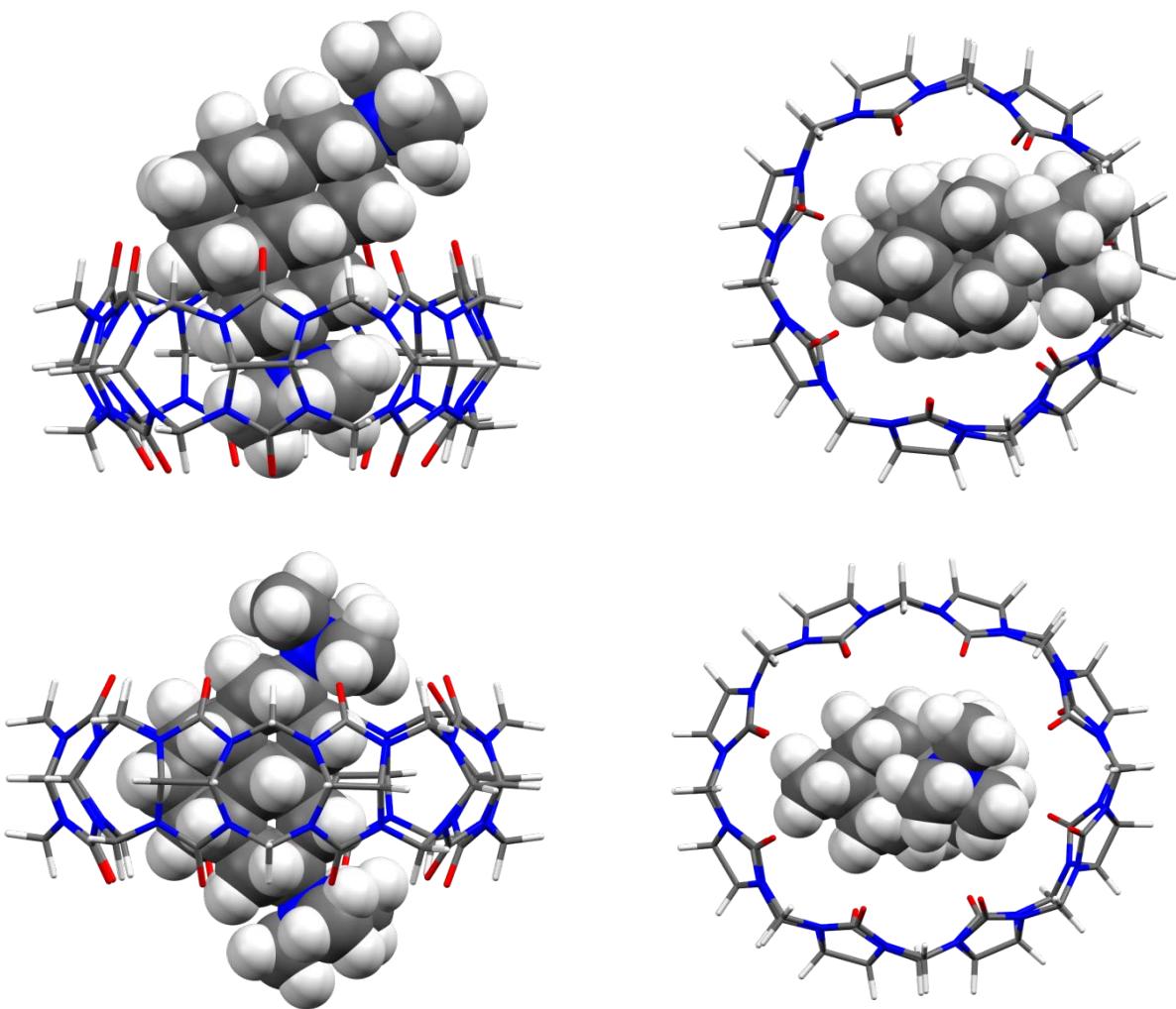
**Figure S54.** Left) Total contribution of each complexation reaction to the overall integrated signal over time for titration 4. Right) Graphical representation of  $\Delta G$ ,  $\Delta H$ , and  $-T\Delta S$  for each complexation reaction.



**Figure S55.** Representations of the minimized geometries of CB[7]•G1 (top) and CB[8]•G1 (bottom). Color coding: C, gray; H, white; O, red; N, blue.



**Figure S56.** Representations of the minimized geometries of **CB[7]•G2** (top) and **CB[8]•G2** (bottom). Color coding: C, gray; H, white; O, red; N, blue.



**Figure S57.** Representations of the minimized geometries of  $\text{CB}[7]\bullet\text{G3}$  (top) and  $\text{CB}[8]\bullet\text{G3}$  (bottom). Color coding: C, gray; H, white; O, red; N, blue.

**Table S1.** Electronic energies, zero-point vibrational energies, enthalpies and Gibbs energies of guests **G1–G4**, CB[7] and CB[8], and the corresponding complexes in Hartree computed using the GFN2-xTB method. The interaction energies (difference between the energy of the complex and the energy of the guest and the host molecules) for the complexes in kcal mol<sup>-1</sup> are given in parentheses.

compound	<i>E</i>	<i>ZPVE</i>	<i>H</i>	<i>G</i>
<b>G1</b>	-64.055694	0.495235	-63.544051	-63.599693
<b>G2</b>	-54.570637	0.410876	-54.146303	-54.196330
<b>G3</b>	-77.160562	0.607646	-76.531822	-76.595677
<b>G4</b>	-58.192044	0.438754	-57.738041	-57.790919
<b>CB[7]</b>	-251.174100	0.923189	-250.186362	-250.339766
<b>CB[8]</b>	-287.050977	1.055132	-285.921884	-286.093340
<b>CB[7]•G1</b>	-315.272746 ( <b>-27.0</b> )	1.424573	-313.767545 ( <b>-23.3</b> )	-313.947474 ( <b>-5.0</b> )
<b>CB[7]•G2</b>	-305.783942 ( <b>-24.6</b> )	1.339440	-304.367502 ( <b>-21.9</b> )	-304.540738 ( <b>-2.9</b> )
<b>CB[7]•G3 unstable</b>	-328.322615 ( <b>7.6</b> )	1.539372	-326.698337 ( <b>12.5</b> )	-326.884910 ( <b>31.7</b> )
<b>CB[7]•G3 exclusion</b>	-328.361297 ( <b>-16.7</b> )	1.535884	-326.738713 ( <b>-12.9</b> )	-326.931129 ( <b>2.7</b> )
<b>CB[7]•G4</b>	-309.422823 ( <b>-35.6</b> )	1.369077	-307.975832 ( <b>-32.3</b> )	-308.149194 ( <b>-11.6</b> )
<b>CB[8]•G1</b>	-351.159698 ( <b>-33.3</b> )	1.554003	-349.514316 ( <b>-30.4</b> )	-349.717460 ( <b>-15.3</b> )
<b>CB[8]•G2</b>	-341.674384 ( <b>-33.1</b> )	1.469324	-340.117704 ( <b>-31.1</b> )	-340.312876 ( <b>-14.6</b> )
<b>CB[8]•G3</b>	-364.265517 ( <b>-33.9</b> )	1.668273	-362.501204 ( <b>-29.8</b> )	-362.711852 ( <b>-14.3</b> )
<b>CB[8]•G4</b>	-345.307439 ( <b>-40.4</b> )	1.497598	-343.720905 ( <b>-38.3</b> )	-343.919089 ( <b>-21.9</b> )

**Table S2.** Geometries of guests **G1–G4**, CB[7] and CB[8], and the corresponding complexes in Cartesian coordinates in Å obtained using the GFN2-xTB method and from CREST sampling.

<b>G1</b>				<b>G2</b>			
6	-1.977600000	1.142300000	-1.092500000	6	-1.971300000	1.339900000	3.925700000
6	-2.723300000	-0.191200000	-1.083800000	1	-0.903500000	1.155100000	3.976500000
6	-2.329800000	-0.945200000	0.185500000	1	-2.508100000	0.400900000	4.008900000
6	-2.345300000	1.970300000	0.143000000	1	-2.246900000	1.962600000	4.773500000
6	-0.451700000	0.935200000	1.381700000	1	-4.094300000	2.911900000	1.881100000
6	-2.699500000	-0.131100000	1.429700000	1	-3.981800000	2.911900000	3.635900000
6	-1.959800000	1.213700000	1.421500000	1	-4.351300000	1.413400000	2.793300000
6	-2.356600000	-1.009200000	-2.318900000	1	-1.895600000	3.946000000	1.837500000
6	-0.090100000	0.056100000	-2.359900000	1	-0.551900000	3.206900000	2.727500000
6	-0.852200000	-1.270500000	-2.331200000	1	-1.921300000	3.888700000	3.594600000
6	-0.444400000	-2.043100000	-1.074900000				
6	1.060900000	-2.303100000	-1.079100000				
6	1.805300000	-0.969100000	-1.106000000				
6	1.416000000	-0.199200000	-2.367000000				
6	-0.473600000	0.874900000	-1.126100000				
6	1.431500000	-0.150200000	0.128600000				
6	-0.827600000	-1.222500000	0.157900000				
6	-0.077200000	0.111500000	0.140000000				
7	-2.327200000	2.043800000	2.676200000				
1	2.885400000	-1.153500000	-1.109400000				
1	-2.260900000	1.707700000	-1.986800000				
1	-3.803800000	-0.009700000	-1.085200000				
1	-2.869400000	-1.897900000	0.220500000				
1	-1.813900000	2.917700000	0.070500000				
1	-3.417000000	2.157700000	0.102800000				
1	-0.133000000	0.365100000	2.253200000				
1	0.119000000	1.861600000	1.336300000				
1	-3.778700000	0.011400000	1.417600000				
1	-2.427200000	-0.725100000	2.300500000				
1	-2.897100000	-1.958800000	-2.311900000				
1	-2.645700000	-0.469200000	-3.223800000				
1	-0.366900000	0.611100000	-3.264300000				
1	-0.592000000	-1.858100000	-3.219200000				
1	-0.976700000	-3.001600000	-1.052700000				
1	1.332400000	-2.898300000	-1.954200000				
1	1.344400000	-2.872400000	-0.190700000				
1	1.955800000	0.749900000	-2.408000000				
1	1.690900000	-0.774900000	-3.254000000				
1	0.065800000	1.828700000	-1.159000000				
1	1.724500000	-0.695400000	1.028700000				
1	1.976300000	0.796600000	0.115400000				
1	-0.544300000	-1.786600000	1.054200000				
6	-1.627500000	3.345100000	2.699800000				
6	-3.775400000	2.331100000	2.740000000				

1	0.070300000	1.831200000	-1.156200000	1	-0.545500000	-1.795400000	1.042900000				
1	1.736300000	-0.701300000	1.022400000	6	-1.584200000	3.331000000	2.691900000				
1	1.988300000	0.790400000	0.109100000	6	-3.738500000	2.328800000	2.741400000				
1	-0.540500000	-1.786400000	1.058300000	6	-1.932800000	1.326100000	3.916600000				
1	-1.800700000	2.894400000	2.596000000	6	3.793200000	-2.038000000	-2.296900000				
1	-3.306500000	2.179400000	2.630700000	6	4.145800000	0.015600000	-1.154200000				
1	-2.035600000	1.487000000	3.458500000	6	3.807800000	-1.986100000	0.078900000				
<hr/>											
<b>G3</b>											
6	-1.971000000	1.134200000	-1.103000000	1	-2.210000000	1.944400000	4.767100000				
6	-2.718300000	-0.198400000	-1.092900000	1	-4.059800000	2.915900000	1.887400000				
6	-2.322600000	-0.953300000	0.175100000	1	-3.939600000	2.906900000	3.640200000				
6	-2.331000000	1.961400000	0.135700000	1	-4.320900000	1.414900000	2.794300000				
6	-0.429400000	0.922000000	1.365400000	1	-1.842100000	3.930900000	1.825700000				
6	-2.683500000	-0.138300000	1.421600000	1	-0.510000000	3.187000000	2.733800000				
6	-1.938100000	1.203600000	1.411600000	1	-1.883200000	3.882400000	3.580300000				
6	-2.352800000	-1.016300000	-2.328900000	1	3.922200000	0.588300000	-2.047900000				
6	-0.083000000	0.042600000	-2.367000000	1	5.207200000	-0.220500000	-1.166100000				
6	-0.849200000	-1.279100000	-2.344600000	1	3.946800000	0.615400000	-0.272700000				
6	-0.434900000	-2.045100000	-1.089200000	1	3.319200000	-2.952800000	0.138300000				
6	1.074000000	-2.311900000	-1.095700000	1	3.608800000	-1.416500000	0.980200000				
6	1.846600000	-0.985600000	-1.122400000	1	4.880100000	-2.157400000	0.020700000				
6	1.428200000	-0.211500000	-2.380300000	1	3.562900000	-1.519100000	-3.221600000				
6	-0.467800000	0.866300000	-1.139800000	1	3.317400000	-3.013100000	-2.298800000				
6	1.445200000	-0.163500000	0.110700000	1	4.869200000	-2.190100000	-2.257000000				
6	-0.821300000	-1.232400000	0.144900000	<hr/>							
6	-0.069000000	0.097800000	0.119600000	<b>G4</b>							
7	-2.292400000	2.033500000	2.669400000	6	-1.926400000	1.165400000	-1.057900000				
7	3.372800000	-1.244100000	-1.123500000	6	-2.672000000	-0.171600000	-1.040200000				
1	-2.259300000	1.702100000	-1.993700000	6	-2.282100000	-0.936100000	0.227500000				
1	-3.798200000	-0.016700000	-1.093200000	6	-2.291700000	1.990300000	0.179200000				
1	-2.866500000	-1.902900000	0.213500000	6	-0.390700000	0.949900000	1.424700000				
1	-1.805400000	2.911900000	0.061000000	6	-2.648900000	-0.120300000	1.470100000				
1	-3.402900000	2.148100000	0.102600000	6	-1.894500000	1.206100000	1.427200000				
1	-0.116400000	0.353700000	2.239500000	6	-2.304800000	-0.989900000	-2.275800000				
1	0.134800000	1.851900000	1.320400000	6	-0.039000000	0.075400000	-2.316900000				
1	-3.761900000	0.009700000	1.413600000	6	-0.800700000	-1.252200000	-2.288300000				
1	-2.416200000	-0.733900000	2.292900000	6	-0.394200000	-2.025800000	-1.031300000				
1	-2.896200000	-1.964100000	-2.322100000	6	1.113700000	-2.291800000	-1.038800000				
1	-2.645900000	-0.476500000	-3.232400000	6	1.848000000	-0.953900000	-1.068800000				
1	-0.348300000	0.597400000	-3.273000000	6	1.470100000	-0.182100000	-2.330400000				
1	-0.600000000	-1.866100000	-3.234900000	6	-0.419900000	0.895600000	-1.082000000				
1	-0.956200000	-3.007800000	-1.066200000	6	1.491900000	-0.136700000	0.169100000				
1	1.294800000	-2.914100000	-1.975200000	6	-0.775600000	-1.205900000	0.203600000				
1	1.310000000	-2.890500000	-0.204200000	6	-0.018700000	0.128200000	0.184200000				
1	1.924100000	0.756200000	-2.433600000	7	-2.245500000	2.009000000	2.642700000				
1	1.656300000	-0.774500000	-3.283700000	7	3.325400000	-1.204200000	-1.071400000				
1	0.063900000	1.823300000	-1.172100000	1	-2.208300000	1.721600000	-1.957300000				
1	1.693600000	-0.696600000	1.026700000	1	-3.752000000	0.009400000	-1.043300000				
1	1.947100000	0.802500000	0.109800000	1	-2.819500000	-1.889200000	0.251300000				

1	-1.767000000	2.945600000	0.139300000	7	4.094400000	-3.262000000	1.239500000
1	-3.364600000	2.184900000	0.170600000	7	5.159900000	-1.083200000	1.223800000
1	-0.098900000	0.396500000	2.318000000	7	5.142000000	1.131400000	1.205900000
1	0.154900000	1.893800000	1.402600000	7	4.065300000	3.304400000	1.189100000
1	-3.726300000	0.048300000	1.477200000	7	2.312200000	4.658200000	1.173600000
1	-2.382100000	-0.688400000	2.362100000	7	-0.046400000	5.160900000	-1.260300000
1	-2.848700000	-1.937600000	-2.270600000	7	-2.206000000	4.667300000	-1.260600000
1	-2.596700000	-0.450700000	-3.180400000	7	-4.110600000	3.165700000	-1.247900000
1	-0.317500000	0.629600000	-3.218700000	7	-5.091800000	1.180100000	-1.227700000
1	-0.550900000	-1.839100000	-3.178500000	7	-5.088100000	-1.245000000	-1.200600000
1	-0.927900000	-2.981100000	-1.009700000	7	-4.106300000	-3.230100000	-1.179500000
1	1.363500000	-2.889000000	-1.916400000	7	-2.191300000	-4.718200000	-1.166600000
1	1.380700000	-2.859800000	-0.146900000	7	-0.025800000	-5.183700000	-1.166400000
1	1.994900000	0.773000000	-2.372200000	7	2.337800000	-4.638400000	-1.173200000
1	1.723400000	-0.754700000	-3.223300000	7	4.082400000	-3.273500000	-1.187600000
1	0.111000000	1.852700000	-1.114800000	7	5.147800000	-1.094900000	-1.203900000
1	1.766500000	-0.680200000	1.073900000	7	5.156200000	1.119800000	-1.221800000
1	2.020300000	0.817200000	0.158800000	7	4.079000000	3.292800000	-1.238200000
1	-0.502400000	-1.769800000	1.101600000	7	2.323500000	4.643300000	-1.253000000
1	-1.753200000	2.910600000	2.636400000	6	-1.043400000	4.529200000	1.852200000
1	-3.255100000	2.194000000	2.669900000	6	-3.497200000	4.371400000	1.729400000
1	-1.988000000	1.502500000	3.498600000	1	-3.323600000	4.160100000	2.791000000
1	3.594700000	-1.753400000	-1.896200000	1	-4.171300000	5.225500000	1.597600000
1	3.842200000	-0.316600000	-1.092500000	6	-4.220100000	2.023200000	1.874000000
1	3.606000000	-1.725000000	-0.231600000	6	-5.621100000	0.001800000	1.772500000
1				1	-5.344100000	0.014900000	2.833100000
<b>CB7</b>							
8	-0.920900000	3.982900000	2.927900000	6	-6.709300000	-0.003100000	1.644000000
8	-3.709300000	1.785700000	2.947700000	6	-4.201300000	-2.004500000	1.914800000
8	-3.685700000	-1.736500000	2.979000000	1	-3.460100000	-4.349500000	1.823800000
8	-0.879400000	-3.920800000	2.997900000	1	-3.280600000	-4.109500000	2.878300000
8	2.611500000	-3.143900000	2.996400000	6	-4.129300000	-5.211100000	1.719100000
8	4.140900000	0.030100000	2.962100000	6	-1.005100000	-4.492800000	1.936000000
8	2.566900000	3.196000000	2.933300000	1	1.281400000	-5.397800000	1.827400000
8	-0.896900000	3.912000000	-2.997100000	1	1.218300000	-5.103300000	2.881400000
8	-3.694600000	1.707500000	-2.979800000	6	1.522100000	-6.462200000	1.724400000
8	-3.701800000	-1.813500000	-2.948300000	6	2.958500000	-3.599200000	1.927400000
8	-0.901100000	-3.987500000	-2.927600000	1	5.105600000	-2.402400000	1.791200000
8	2.583900000	-3.174000000	-2.932300000	1	6.083200000	-2.881200000	1.664700000
8	4.143500000	0.002000000	-2.960900000	6	4.858000000	-2.273800000	2.851300000
8	2.597800000	3.164500000	-2.995800000	6	4.716100000	0.026000000	1.894700000
7	-0.055500000	5.185700000	1.166200000	1	5.076300000	2.456300000	1.758800000
7	-2.216900000	4.701500000	1.166100000	1	6.052200000	2.939400000	1.635800000
7	-4.121400000	3.200000000	1.178900000	6	4.820300000	2.337400000	2.818100000
7	-5.092700000	1.209700000	1.200200000	6	2.921700000	3.642900000	1.863300000
7	-5.085600000	-1.215400000	1.227300000	1	1.241300000	5.436600000	1.732800000
7	-4.096000000	-3.196800000	1.247500000	1	1.175500000	5.158900000	2.791200000
7	-2.181400000	-4.685600000	1.260200000	6	1.478800000	6.500100000	1.613600000
7	-0.017700000	-5.160700000	1.260200000	6	-1.027900000	4.483900000	-1.935900000
7	2.348100000	-4.624400000	1.253400000	1	-3.481600000	4.321700000	-1.825300000
7				1	-3.299300000	4.081200000	-2.879100000

1	-4.156800000	5.179000000	-1.722800000	1	5.218500000	4.555600000	-0.024200000
6	-4.211100000	1.973100000	-1.915300000	6	3.011100000	5.005600000	-0.038600000
6	-5.622300000	-0.039500000	-1.772600000	1	3.243000000	6.079200000	-0.044200000
1	-5.345900000	-0.051300000	-2.833400000				
1	-6.710400000	-0.039300000	-1.643400000				
6	-4.211300000	-2.053800000	-1.874500000	7	17.607200000	9.939000000	3.565200000
6	-3.474300000	-4.397600000	-1.729500000	6	18.041400000	8.884100000	4.445200000
1	-3.302900000	-4.185800000	-2.791300000	1	19.029900000	8.518600000	4.135400000
1	-4.142300000	-5.256200000	-1.596500000	7	18.062200000	9.243200000	5.842000000
6	-1.019200000	-4.535400000	-1.852300000	6	16.364000000	9.707900000	3.037600000
6	1.272700000	-5.424100000	-1.733300000	8	15.784100000	10.417900000	2.243400000
1	1.204900000	-5.145400000	-2.791300000	6	17.110900000	8.581200000	6.572800000
1	1.518300000	-6.485900000	-1.615500000	8	16.955400000	8.656100000	7.773200000
6	2.941100000	-3.619000000	-1.862400000	7	15.940600000	8.480600000	3.477000000
6	5.088900000	-2.419900000	-1.757200000	6	16.889700000	7.849200000	4.361400000
1	6.067300000	-2.898100000	-1.634600000	1	17.168500000	6.861000000	3.970900000
1	4.832000000	-2.301900000	-2.816400000	7	16.446300000	7.733100000	5.726900000
6	4.717700000	0.008700000	-1.893000000	6	14.843000000	7.784700000	2.863800000
6	5.095800000	2.438900000	-1.788700000	1	15.189900000	6.795300000	2.539100000
1	4.850500000	2.309500000	-2.849300000	1	14.526600000	8.393400000	2.008700000
1	6.070500000	2.922900000	-1.660400000	6	15.590100000	6.682400000	6.202700000
6	2.941200000	3.622200000	-1.926600000	1	15.707100000	6.655100000	7.292100000
6	1.251000000	5.408300000	-1.827100000	1	15.906200000	5.737000000	5.744900000
1	1.483200000	6.474600000	-1.723800000	7	13.684100000	7.616600000	3.696900000
1	1.190500000	5.113600000	-2.881200000	6	13.559300000	6.574200000	4.686200000
6	-0.530500000	5.786900000	-0.055300000	1	13.945800000	5.627000000	4.286200000
1	-0.288900000	6.858400000	-0.065300000	7	14.189200000	6.871700000	5.946900000
6	-2.042900000	5.444500000	-0.057000000	6	12.488300000	8.225200000	3.417300000
1	-2.722500000	6.307200000	-0.072300000	8	12.306900000	9.089300000	2.585700000
6	-4.894500000	3.194700000	-0.038000000	6	13.284100000	7.116300000	6.945800000
1	-5.576900000	4.055300000	-0.053100000	8	13.549400000	7.354100000	8.105100000
6	-5.577500000	1.802700000	-0.021500000	7	11.517000000	7.607700000	4.160800000
1	-6.675800000	1.815600000	-0.022100000	6	12.047100000	6.587600000	5.029200000
6	-5.569200000	-1.840300000	0.021400000	1	11.515800000	5.640200000	4.865400000
1	-6.667400000	-1.858600000	0.022800000	7	12.028300000	6.929500000	6.430200000
6	-4.879500000	-3.229000000	0.037400000	6	10.115600000	7.767500000	3.887800000
1	-5.557800000	-4.092800000	0.052000000	1	10.040200000	8.345800000	2.959700000
6	-2.011300000	-5.460400000	0.056100000	1	9.665500000	6.773300000	3.773700000
1	-2.683600000	-6.328900000	0.070500000	6	10.869000000	6.792400000	7.268100000
6	-0.496100000	-5.789900000	0.054500000	1	10.373100000	5.842200000	7.032900000
1	-0.245500000	-6.859300000	0.063800000	1	11.231800000	6.804600000	8.302400000
6	3.038600000	-4.981700000	0.039200000	7	9.378900000	8.498000000	4.881600000
1	3.277500000	-6.053800000	0.044400000	6	8.911000000	7.919500000	6.117100000
6	4.260200000	-4.026800000	0.028800000	1	8.493000000	6.920900000	5.930800000
1	5.243000000	-4.517200000	0.026200000	7	9.905500000	7.852400000	7.157500000
6	5.856900000	-0.755600000	0.005200000	6	8.812800000	9.718200000	4.620900000
1	6.849800000	-1.225300000	0.002700000	8	8.992300000	10.388000000	3.625900000
6	5.853600000	0.795200000	-0.002600000	6	9.666700000	8.739700000	8.174200000
1	6.844300000	1.269200000	0.000800000	8	10.327400000	8.859400000	9.184300000
6	4.238900000	4.058600000	-0.027300000	7	7.921600000	9.991100000	5.624800000

6	7.907600000	8.976300000	6.647200000	8	14.058300000	16.824200000	10.648900000
1	6.882000000	8.617000000	6.807400000	6	13.226200000	18.524000000	6.145200000
7	8.489300000	9.386000000	7.901900000	8	12.999500000	18.215600000	4.994200000
6	6.936400000	11.031400000	5.520600000	7	14.892400000	18.186600000	8.991500000
1	5.948800000	10.602800000	5.730900000	6	14.394600000	19.173500000	8.065500000
1	6.993600000	11.413500000	4.494900000	1	14.921700000	20.126200000	8.210900000
6	7.778800000	10.140100000	8.897900000	7	14.461400000	18.778200000	6.681400000
1	6.755200000	9.750900000	8.970300000	6	16.286200000	18.003300000	9.287700000
1	8.322500000	10.002100000	9.839700000	1	16.331200000	17.440100000	10.227000000
7	7.144000000	12.157700000	6.387500000	1	16.757800000	18.988500000	9.392600000
6	6.765900000	12.178900000	7.777400000	6	15.638800000	18.924900000	5.870800000
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7	7.718000000	11.556900000	8.664800000	1	15.306700000	18.897400000	4.826500000
6	7.494400000	13.395200000	5.915400000	7	17.022600000	17.243000000	8.316000000
8	7.813500000	13.658400000	4.775400000	6	17.556700000	17.806600000	7.102200000
6	8.344800000	12.460000000	9.483300000	1	17.978500000	18.800900000	7.302400000
8	9.143500000	12.194000000	10.356400000	7	16.613700000	17.879400000	6.013500000
7	7.305800000	14.299400000	6.927200000	6	17.523100000	15.995800000	8.583700000
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6	7.288400000	15.717000000	6.695900000	7	18.446000000	15.695100000	7.616300000
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1	8.514200000	14.433300000	10.995300000	1	20.405000000	15.029000000	7.642900000
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6	10.891700000	18.941400000	6.795300000	7	18.686300000	12.074000000	3.969900000
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<b>CB[7]•G1</b>							
8	0.743322385	-3.874730731	3.375092227	1	6.996087897	-0.404104043	1.818299940
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8	-2.614977724	3.444470444	3.507211960	1	4.458112265	4.864426913	2.082074721
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8	-2.986843132	-3.096274477	3.499727455	1	-0.893311227	5.327504802	2.197702194
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8	-2.337422846	3.231924870	-2.546398012	1	-5.965854698	3.283865469	1.948733293
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8	-2.791570169	-2.942108426	-2.545961660	6	-4.886157455	0.285405844	2.306304693
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7	1.969213329	-4.628834141	1.578161857	1	-6.317962642	-2.563911045	1.971475128
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7	5.267207729	-1.501912125	1.513097117	6	-3.254852011	-3.450014362	2.371187731
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7	2.504825273	4.378483850	1.586796262	6	0.825128868	-4.600935682	-1.593318387
7	0.357625499	4.952891740	1.588085630	6	3.283399379	-4.511324175	-1.436712479
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6	4.792770969	3.250922303	0.876089349	1	0.882183072	-6.971955244	-0.905268010
1	4.867690424	2.976416361	1.935059830	6	3.624454146	-4.300380080	-1.472247357
1	5.636067603	3.884927671	0.574586234	1	4.114272211	-5.255377678	-1.709362259
6	2.663204158	4.141598118	1.744597884	6	4.523943240	-3.045345077	-1.613945914
6	0.772337982	5.630108877	2.281672044	1	5.551031199	-3.243207979	-1.951875235
1	0.775067523	6.724046285	2.221592123	6	5.414374296	0.420076027	-1.490542649
1	1.055818320	5.288385430	3.283937042	1	6.421222172	0.121943091	-1.820438394
6	-1.169461808	4.225146330	2.860743809	6	5.232144602	1.942461506	-1.256896813
6	-3.465010332	3.434739730	3.287223198	1	6.136737976	2.548969142	-1.414735628
1	-4.312649542	4.108897186	3.463091117	6	3.326072887	4.907015179	-0.367629666
1	-2.971857363	3.170273141	4.230076712	1	4.211900498	5.534982457	-0.538474688
6	-3.696069669	0.980879214	3.294980649	6	2.053485677	5.673924156	0.078444958

1	2.170790401	6.763224665	0.164278402	1	2.070165959	-0.757325801	-0.615991685	
6	-1.482821660	5.744315867	1.103595155	1	-1.488014877	-2.141556577	-3.763762518	
1	-1.496388077	6.835712212	1.232058776	1	-1.121515463	-0.748839086	-4.631090333	
6	-2.824224956	5.028409519	1.413118687	1	0.088797429	-1.830436111	-4.190230607	
1	-3.642767537	5.690128339	1.729860607					
6	-5.003946038	2.138933299	1.737407520					
1	-5.837714852	2.787780607	2.045421108	8	-0.842990169	4.211123394	2.879903492	
6	-5.339340045	0.626022429	1.672462212	8	-3.507138596	1.743424153	2.776210821	
1	-6.376882834	0.371295872	1.937033213	8	-3.539224678	-1.916159158	2.854481237	
6	-1.465540804	0.898074486	-0.921154455	8	-0.578497544	-4.669760117	2.773561327	
6	-0.223683516	1.774487780	-1.056840187	8	3.025732731	-4.021331810	2.726308857	
6	0.965471852	0.904057691	-1.449169055	8	4.641370141	-0.342974439	2.760360510	
6	-1.762005776	0.210436726	-2.255286567	8	2.703563202	3.103129074	2.686555925	
6	-0.337102552	-1.691965254	-1.521672434	8	-1.203365530	4.465903428	-3.360106845	
6	0.669764727	0.222589559	-2.780356839	8	-4.522958087	2.227596204	-3.353590767	
6	-0.563546671	-0.656314035	-2.619878643	8	-3.709587607	-1.639270178	-3.253460546	
6	0.066289497	2.466414754	0.265071195	8	-0.637704668	-3.984872463	-3.209222567	
6	-0.921784283	0.565798381	1.520875888	8	2.585199626	-3.453937697	-3.282445057	
6	0.317449468	1.439517971	1.357396276	8	4.028099450	-0.247194030	-3.370111729	
6	1.507153753	0.560113116	0.984871487	8	2.731360559	3.380786639	-3.510373579	
6	1.747071009	-0.467153157	2.085985361	7	0.031846523	5.130875560	0.970270166	
6	0.505932545	-1.340525537	2.233766413	7	-2.153544856	4.725473060	1.067810970	
6	-0.676622884	-0.459794164	2.620508196	7	-4.002973912	3.190786071	1.066832485	
6	-1.222876257	-0.123009945	0.190868995	7	-4.896542022	1.146485562	1.057048945	
6	0.209405760	-2.034850438	0.906799098	7	-4.800948646	-1.258620694	1.057238785	
6	1.212154714	-0.126434905	-0.347363713	7	-3.714118391	-3.207786179	0.950555836	
6	-0.032375981	-1.004671513	-0.192656912	7	-1.920982906	-4.859721999	0.914408537	
7	-0.799031162	-1.386448824	-3.897798562	7	0.163779595	-5.686007646	0.840769529	
1	0.673266936	-2.099709510	3.007255247	7	2.609360030	-5.247527950	0.817709203	
1	-2.309937690	1.536768133	-0.652092990	7	4.268473848	-3.729481793	0.809755970	
1	-0.397323375	2.527144329	-1.833555796	7	5.140270916	-1.430842948	0.780889908	
1	1.847713459	1.542181668	-1.550431139	7	5.096847120	0.807432783	0.824988829	
1	-2.665978099	-0.392210571	-2.177119454	7	4.011354154	2.976642162	0.804739569	
1	-1.933396750	0.984325578	-3.004468861	7	2.344098028	4.465464401	0.878180845	
1	0.493484764	-2.343706520	-1.786799068	7	-0.083652882	5.125435288	-1.456347732	
1	-1.237848845	-2.294747807	-1.407629328	7	-2.294752321	4.759380645	-1.358298148	
1	0.506636670	0.993585556	-3.534612481	7	-4.243859147	3.315928579	-1.339767260	
1	1.521253266	-0.376175183	-3.092645556	7	-5.137967798	1.270927121	-1.352204525	
1	0.942954039	3.103482482	0.163150306	7	-4.901598483	-1.142763893	-1.353306810	
1	-0.783764741	3.083373611	0.550815150	7	-3.823603082	-3.096709588	-1.470479774	
1	-1.765501420	1.204910374	1.805687530	7	-1.987416460	-4.677371100	-1.487061272	
1	0.531773064	1.948534069	2.306444867	7	0.102119697	-5.438408371	-1.582772903	
1	2.396092864	1.194708156	0.891378005	7	2.462980450	-5.022382204	-1.605652257	
1	1.958041220	0.052099997	3.025433741	7	4.146463235	-3.574996851	-1.603898798	
1	2.620637092	-1.082690929	1.865502040	7	5.078656050	-1.362536739	-1.649340508	
1	-1.562801655	-1.071628350	2.785262899	7	4.960752810	0.862224223	-1.586531259	
1	-0.471480218	0.056306767	3.562976100	7	3.992631345	3.072603385	-1.618404691	
1	-2.115087385	-0.751675976	0.313020432	7	2.256282411	4.478681757	-1.538104246	
1	1.057353728	-2.672435228	0.646658646	6	-0.974658326	4.633012481	1.759853899	
1	-0.673079896	-2.668282089	1.027779254	6	-3.419291635	4.368226503	1.652231688	

1	-3.228495597	4.148499431	2.709298290	6	2.968910677	3.612781073	-2.357892951
1	-4.119841546	5.207608551	1.554573059	6	1.219987338	5.347600418	-2.053297474
6	-4.069789007	1.994530485	1.744401033	1	1.511533772	6.396458301	-1.898699595
6	-5.361908778	-0.082228820	1.655190172	1	1.127530136	5.138733213	-3.125743587
1	-5.032200455	-0.074686509	2.701370483	6	-0.481580305	5.754912436	-0.220535851
1	-6.457867188	-0.118194933	1.593662082	1	-0.211632860	6.824383676	-0.233532782
6	-3.957645017	-2.107187212	1.746073867	6	-2.010846901	5.485203393	-0.145402673
6	-3.153460052	-4.419818932	1.516695207	1	-2.628948044	6.397430938	-0.094440812
1	-2.929670851	-4.201782888	2.568196329	6	-4.897261898	3.220758947	-0.056980922
1	-3.901308090	-5.224681023	1.444444760	1	-5.632471303	4.034396707	0.060299477
6	-0.751736989	-5.026584174	1.643546073	6	-5.519434156	1.794242984	-0.064841135
6	1.496651493	-6.034380642	1.310711667	1	-6.616544090	1.777705093	0.045927284
1	1.476728889	-5.876485232	2.395695348	6	-5.302184034	-1.839675368	-0.154980947
1	1.680294739	-7.089245789	1.073283762	1	-6.400659298	-1.929027630	-0.114751976
6	3.263740340	-4.298004572	1.586143118	6	-4.547248719	-3.194532964	-0.231653640
6	5.220613992	-2.777055543	1.331434172	1	-5.203291588	-4.080793501	-0.241578754
1	6.237848331	-3.163819826	1.174244452	6	-1.881686080	-5.553272256	-0.346963389
1	5.007481761	-2.683258684	2.403339988	1	-2.658041498	-6.334583708	-0.386166757
6	4.922065839	-0.331222695	1.593359418	6	-0.423390213	-6.093709848	-0.416902630
6	5.039988699	2.131288044	1.379667576	1	-0.346753748	-7.187088871	-0.528762375
1	6.013452184	2.628690240	1.257309904	6	3.242689292	-5.430521862	-0.466789964
1	4.801417094	2.015034280	2.443742097	1	3.561246050	-6.479175574	-0.582717872
6	2.989096488	3.467989055	1.576862151	6	4.414596903	-4.403523333	-0.458090224
6	1.365507477	5.330964804	1.479213826	1	5.415637112	-4.857290461	-0.538397718
1	1.337198387	5.098217501	2.550206757	6	5.793144434	-1.034214747	-0.451309389
1	1.662046232	6.377243317	1.324307446	1	6.811847370	-1.455507220	-0.488073168
6	-1.194214339	4.754779689	-2.195870151	6	5.742110845	0.518164937	-0.427127360
6	-3.643633276	4.529808210	-1.844691929	1	6.730831724	1.005919086	-0.472051781
1	-3.584597656	4.423987181	-2.934547482	6	4.198970549	3.774701950	-0.383619672
1	-4.270741034	5.392162061	-1.581285622	1	5.197282688	4.243430356	-0.370337963
6	-4.625003656	2.264748973	-2.159946396	6	3.017098061	4.784512660	-0.348108989
6	-5.606653861	0.006360179	-1.874354137	1	3.325467142	5.843528348	-0.352863329
1	-5.432586202	0.036527872	-2.956799348	6	1.590494021	-0.674596460	-0.852418573
1	-6.679526660	-0.105343574	-1.664883508	6	0.726648089	-1.924860327	-0.807165074
6	-4.096769282	-1.935223998	-2.154125754	6	-0.739944873	-1.550096805	-0.674562686
6	-3.218561955	-4.248879705	-2.093494005	6	1.242072524	0.124086642	-2.090993193
1	-2.977725576	-3.954787661	-3.122301944	6	-0.490961553	1.333085961	-0.790506681
1	-3.938271420	-5.081065767	-2.086530880	6	-1.134887383	-0.782378192	-1.914200396
6	-0.806784758	-4.620034741	-2.206464292	6	-0.249244365	0.450950317	-2.062603684
6	1.371024625	-5.755193756	-2.176928375	6	1.150556805	-2.735560301	0.386871426
1	1.308927052	-5.451373446	-3.229524924	6	1.741558565	-0.699228975	1.634768366
1	1.557149679	-6.831810343	-2.086372697	6	0.894049705	-1.961570427	1.666712284
6	3.004236456	-3.951029909	-2.275595207	6	-0.566295851	-1.555973141	1.789282799
6	5.077955419	-2.679058859	-2.225959061	6	-0.764079924	-0.788287164	3.086538778
1	6.090600940	-3.100503095	-2.172970512	6	0.097903208	0.471627298	3.080741608
1	4.753698730	-2.561493746	-3.267594071	6	1.570752235	0.099237472	2.918217795
6	4.611570113	-0.258047058	-2.323414828	6	1.367944138	0.138317028	0.416206051
6	4.961244586	2.167684589	-2.189988405	6	-0.301848232	1.334176875	1.845632375
1	4.679077672	2.038172852	-3.242191309	6	-0.957833117	-0.720127525	0.579999513
1	5.964380879	2.610526551	-2.110799249	6	-0.102130987	0.545509515	0.512402999

7	-0.606751413	1.065651252	-3.438316835	8	-0.794200000	4.186500000	2.303800000
7	-0.089112003	1.176880126	4.457850200	8	-3.397000000	1.482600000	2.111000000
1	2.641523646	-0.970089904	-0.907474806	8	-3.638600000	-2.415500000	1.965300000
1	0.869833290	-2.493006322	-1.729349327	8	-0.773100000	-5.020700000	1.589300000
1	-1.343920473	-2.457867661	-0.605322383	8	3.175000000	-4.107400000	1.439600000
1	1.835134274	1.038505500	-2.101553197	8	4.585900000	-0.497700000	1.641000000
1	1.523527268	-0.472303081	-2.956918069	8	2.626800000	2.905100000	1.855600000
1	-1.543227010	1.614847474	-0.706778119	8	-0.962800000	3.801600000	-3.761300000
1	0.105316662	2.248290063	-0.837153567	8	-4.001400000	1.822300000	-3.897400000
1	-1.038831083	-1.463939778	-2.754964251	8	-3.885800000	-1.688800000	-4.088900000
1	-2.171863966	-0.466814882	-1.823374020	8	-1.068300000	-3.728100000	-4.407200000
1	0.616278566	-3.671451028	0.396130208	8	2.375600000	-2.874600000	-4.500900000
1	2.212851389	-2.917720313	0.291762621	8	4.066500000	0.175800000	-4.402900000
1	2.781931551	-0.999396153	1.550285135	8	2.617300000	3.350500000	-4.150800000
1	1.175342654	-2.577314127	2.524632685	7	0.045700000	5.098800000	0.372900000
1	-1.193474584	-2.445491852	1.829390115	7	-2.107200000	4.560400000	0.455400000
1	-0.482078323	-1.469587501	3.885329668	7	-3.922600000	2.966000000	0.440000000
1	-1.819711796	-0.544636915	3.188287693	7	-4.788400000	0.912100000	0.365900000
1	2.191321808	0.990046305	2.857187377	7	-4.835000000	-1.507600000	0.226300000
1	1.939129341	-0.520557515	3.733288853	7	-3.957500000	-3.541800000	-0.020000000
1	1.995321613	1.038970558	0.388172268	7	-2.084800000	-5.060700000	-0.294900000
1	-1.346395511	1.627957379	1.930548251	7	0.091900000	-5.511900000	-0.492200000
1	0.316562382	2.230609035	1.815755606	7	2.461300000	-4.965500000	-0.579600000
1	-2.015700035	-0.436878732	0.658565934	7	4.219500000	-3.592600000	-0.539000000
6	0.333041259	2.133603727	-3.799548219	7	5.236600000	-1.395300000	-0.378800000
6	-0.557754518	0.078566616	-4.546448188	7	5.126000000	0.820400000	-0.161700000
6	-1.970937540	1.597164863	-3.436281146	7	4.020900000	2.973000000	0.019800000
6	0.111879149	0.229504934	5.577843810	7	2.367300000	4.460000000	0.189400000
6	0.857222307	2.285841709	4.661449200	7	-0.039800000	5.026500000	-2.045000000
6	-1.436233607	1.742256101	4.631287741	7	-2.203900000	4.528400000	-1.962600000
1	-2.096771718	2.296555411	-2.620453668	7	-4.114900000	3.071000000	-1.968500000
1	-2.689166182	0.787070875	-3.359508546	7	-5.139100000	1.109700000	-2.026500000
1	-2.171957160	2.128714485	-4.363310813	7	-5.085600000	-1.283300000	-2.167300000
1	0.352182982	-0.514026898	-4.522628019	7	-4.124700000	-3.262500000	-2.426200000
1	-0.581970898	0.630555879	-5.483946738	7	-2.238000000	-4.713700000	-2.688500000
1	-1.419412401	-0.583991238	-4.527064386	7	-0.075000000	-5.141300000	-2.886400000
1	1.286596190	1.725436334	-4.120530368	7	2.251600000	-4.584600000	-2.965700000
1	0.487479015	2.790190859	-2.953926217	7	4.012700000	-3.242200000	-2.926300000
1	-0.073560543	2.733604377	-4.609756162	7	5.086700000	-1.105400000	-2.785500000
1	1.881878649	1.933058255	4.701305860	7	5.098100000	1.098000000	-2.564100000
1	0.623888926	2.786734890	5.598774133	7	4.096900000	3.269900000	-2.387700000
1	0.757644567	3.009823329	3.861538751	7	2.311400000	4.566800000	-2.222100000
1	-2.204739828	1.007345793	4.422436153	6	-0.933200000	4.555400000	1.161800000
1	-1.566585400	2.592837743	3.971773713	6	-3.356900000	4.149500000	1.041700000
1	-1.551976007	2.083530317	5.657868608	1	-3.143800000	3.911000000	2.089500000
1	1.029716496	-0.338716050	5.461028846	1	-4.085100000	4.965000000	0.969900000
1	-0.729493960	-0.451983946	5.664627793	6	-3.966800000	1.752700000	1.078700000
1	0.183330588	0.796605386	6.504363322	6	-5.281700000	-0.325700000	0.923400000
				1	-4.887200000	-0.402500000	1.943300000
				1	-6.378600000	-0.302700000	0.934400000

**CB[7]•G3 exclusion complex**

6	-4.080100000	-2.478600000	0.841900000	6	-1.995300000	5.313100000	-0.771800000
6	-3.345700000	-4.793400000	0.358400000	1	-2.678900000	6.173200000	-0.757200000
1	-3.134300000	-4.738200000	1.432600000	6	-4.801900000	3.012900000	-0.698900000
1	-4.044100000	-5.611800000	0.145300000	1	-5.505500000	3.852100000	-0.608100000
6	-0.901700000	-5.164700000	0.396100000	6	-5.456600000	1.607600000	-0.714000000
6	1.434300000	-5.847400000	-0.069600000	1	-6.544200000	1.596900000	-0.558300000
1	1.454600000	-5.759000000	1.022800000	6	-5.462900000	-2.000100000	-0.977200000
1	1.660800000	-6.877000000	-0.375800000	1	-6.556700000	-2.004700000	-0.866000000
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6	5.043300000	2.086400000	0.525300000	1	-0.220700000	-6.998000000	-1.937900000
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6	2.965300000	3.385200000	0.797900000	6	4.277100000	-4.171300000	-1.860300000
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7	2.779586040	5.018519309	1.610438504	8	2.091373732	-4.003619372	3.268011059
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1	4.865875673	5.637916760	-1.208939408	6	2.199056128	-5.947141005	0.350011546
1	4.108662877	4.501441852	-2.392896369	1	2.146092527	-7.044135827	0.384777375
6	4.015175118	4.668525249	2.252532896	7	1.545810922	-5.383480012	1.507727240
1	3.765025304	4.392039408	3.283392965	6	0.508477830	-5.969145728	-1.541003248
1	4.687750513	5.535861195	2.230844054	1	0.536314024	-7.066854130	-1.523514138
7	4.909549114	3.619044602	-0.741795391	1	0.524947410	-5.593013587	-2.570245150
6	5.574540610	3.645172271	0.534966030	6	0.363436878	-5.951138729	2.094344309
1	6.195010355	4.547379872	0.624294115	1	0.448846763	-7.046852857	2.077885313
7	4.686451060	3.541295071	1.668479099	1	0.307592027	-5.580345884	3.124351972
6	5.158066112	2.469189125	-1.440382914	7	-0.862110811	-5.569163512	1.452980292
8	4.777654298	2.225015747	-2.563048116	6	-1.310799894	-6.147323071	0.209643111
6	4.835007052	2.360154327	2.348876686	1	-1.125305382	-7.230073485	0.206556256
8	4.252445817	2.048553720	3.366394505	7	-0.730663281	-5.533210567	-0.955354205
7	5.991348713	1.685934249	-0.688833407	6	-1.855354455	-4.895355902	2.114903135
6	6.348152427	2.300937286	0.564342996	8	-1.753815307	-4.370383280	3.204033806
1	7.440010572	2.388101072	0.649255618	6	-1.633084281	-4.760584497	-1.640883373
7	5.814926372	1.634175013	1.726412567	8	-1.405447974	-4.130742040	-2.649343026

7	-3.002982394	-5.003582602	1.375083851	6	-2.641051486	4.675186160	2.152141222
6	-2.800866069	-5.725209013	0.142843621	8	-2.467104076	4.218630452	3.262332289
1	-3.523922776	-6.548545299	0.065414452	6	-2.459689394	4.416666234	-1.601015545
7	-2.854570242	-4.897685245	-1.033646510	8	-2.161280299	3.775371105	-2.583315944
6	-4.301365861	-4.721133683	1.923512512	7	-1.765905254	5.475119976	1.465394835
1	-4.937822693	-5.607087044	1.799928741	6	-2.285311826	5.906670625	0.192357239
1	-4.151471291	-4.490431266	2.984391261	1	-2.236479308	7.001278526	0.114366554
6	-4.084880713	-4.541416224	-1.682201151	7	-1.635141985	5.289962772	-0.936073245
1	-3.823454264	-4.201814280	-2.691217440	6	-0.600777577	6.050218503	2.075558188
1	-4.733566133	-5.426517939	-1.720057576	1	-0.663773323	7.144636537	2.001680065
7	-4.968221518	-3.587260674	1.348762591	1	-0.605933276	5.728834564	3.123243239
6	-5.661735506	-3.620235745	0.085801667	6	-0.459720325	5.834070666	-1.559973131
1	-6.248147319	-4.545343924	0.001774870	1	-0.566487343	6.925933389	-1.619818291
7	-4.804458465	-3.462866030	-1.063204877	1	-0.399099048	5.392248332	-2.561118538
6	-5.204522929	-2.435685506	2.052126261	6	1.491627874	0.920658882	-0.614535836
8	-4.782390010	-2.179505138	3.160590373	6	1.805001118	-0.479701838	-0.088893783
6	-5.024942620	-2.281415388	-1.725793649	6	1.053839467	-1.485558385	-0.959699142
8	-4.465449001	-1.926977117	-2.739126298	6	1.935243151	1.034216324	-2.073797304
7	-6.083912287	-1.674590392	1.330223280	6	-0.338899113	0.317833829	-2.798507231
6	-6.486938454	-2.307383139	0.095223221	6	1.454802259	-1.369128158	-2.432538914
1	-7.577785095	-2.435290492	0.078674028	6	1.160440327	0.044183057	-2.948089372
7	-6.048467520	-1.629476894	-1.093871666	6	1.372715936	-0.603983741	1.370190043
6	-6.713391657	-0.502450748	1.873248403	6	-0.461259571	1.061124336	0.977841795
1	-6.456503459	-0.479478747	2.938799511	6	-0.129458764	-0.346474219	1.480121974
1	-7.797648830	-0.578994383	1.729400598	6	-0.894936592	-1.365534582	0.633303334
6	-6.717518435	-0.493500321	-1.665244125	6	-2.396433652	-1.114869727	0.735250874
1	-7.797415401	-0.618647098	-1.533863233	6	-2.711471026	0.290249409	0.227714515
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7	-6.257559879	0.739802912	1.309762679	6	-0.008080525	1.182695673	-0.478442590
6	-6.813561765	1.326636944	0.112966619	6	-2.273174038	0.418842828	-1.227499024
1	-7.910098649	1.264289128	0.141262661	6	-0.447171438	-1.239447475	-0.822910587
7	-6.318635390	0.771659953	-1.119017373	6	-0.768796290	0.166361752	-1.335622119
6	-5.464860898	1.614599781	2.007638430	7	1.589604583	0.188833382	-4.416256879
8	-4.940472945	1.398986888	3.079784906	1	-3.790203524	0.468418873	0.310220090
6	-5.500988001	1.632811575	-1.800748105	1	2.039144236	1.660554058	-0.013734541
8	-4.998586267	1.434605813	-2.883002721	1	2.885013595	-0.665037394	-0.160774463
7	-5.445886383	2.805406448	1.328227535	1	1.281948284	-2.501561285	-0.612465919
6	-6.228721468	2.763047860	0.116812003	1	1.780084119	2.059709145	-2.405514945
1	-6.971781220	3.572525879	0.121107918	1	2.998779655	0.810530872	-2.114251270
7	-5.451116887	2.805704315	-1.094648168	1	-0.934019692	-0.378579501	-3.390306668
6	-5.005065441	4.029152398	1.940573910	1	-0.590875029	1.336503644	-3.092335412
1	-5.800532283	4.779383140	1.841547497	1	2.513750087	-1.605566302	-2.527038275
1	-4.806977435	3.804151232	2.994886702	1	0.882017791	-2.121943272	-2.972194781
6	-4.887998868	3.998826308	-1.657217289	1	1.603369396	-1.600538424	1.762147148
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7	-3.785503323	4.568436858	1.406066189	1	-0.437680698	-0.442614648	2.529919545
6	-3.711475599	5.299129600	0.162773231	1	-0.671244647	-2.374690633	1.009499610
1	-4.534396809	6.024081102	0.102646333	1	-2.723423165	-1.223541977	1.774379405
7	-3.693931591	4.464159553	-1.007775643	1	-2.931404437	-1.853859207	0.130977149

1	-2.186633217	2.326810679	0.710947586	6	-0.589454767	5.995121336	-1.619839516
1	-2.292560235	1.265337127	2.116477926	1	-0.605640368	5.634625478	-2.654840077
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1	-2.506160641	1.417336360	-1.605829218	1	-0.498496165	7.016027501	2.024404333
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6	1.041549157	1.419717640	-5.023216509	7	0.664868418	5.573704208	-1.058099271
6	3.058521023	0.255057981	-4.561079642	6	1.236544511	6.164655188	0.123378525
6	1.125390413	-0.955649920	-5.226048451	1	1.035466984	7.244547758	0.151833552
1	1.687692227	-1.849696186	-4.972520130	7	0.794305766	5.542341540	1.347687666
1	1.281089158	-0.727813707	-6.277492121	6	1.592591256	4.873875388	-1.792784273
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1	3.443215142	1.198837800	-4.185669472	6	1.802022241	4.872709821	1.993282085
1	3.308125241	0.169592305	-5.615002782	8	1.708768161	4.319664396	3.068830207
1	3.542453741	-0.554601731	-4.024181589	7	2.804605955	4.994760939	-1.165939086
1	-0.029769894	1.330742635	-5.173917871	6	2.733895408	5.770814304	0.044515474
1	1.519066214	1.574174251	-5.987324967	1	3.441864872	6.609891949	0.000999381
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<b>CB[8]•G2</b>				1	4.713251991	5.478471483	-1.806318548
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6	-6.713212778	1.272680928	0.319802048	6	4.248932065	4.762258220	1.808600221
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7	-6.083365317	0.654143706	1.459914299	1	4.104179136	4.536418268	2.871407108
6	-5.542886106	1.728857812	-1.649096336	7	4.722482050	3.510504021	-1.161054917
8	-5.084984008	1.595793372	-2.764617427	6	5.605718281	3.658377953	-0.031086508
6	-5.256475897	1.511739870	2.136689905	1	6.201345508	4.576485551	-0.128833176
8	-4.653423477	1.263479306	3.158823481	7	4.940257163	3.636818703	1.247325785
7	-5.506982667	2.875404255	-0.904860955	6	4.907305299	2.318458164	-1.814702031
6	-6.180395873	2.728976505	0.360859041	8	4.325938302	1.964589905	-2.816468487
1	-6.947231595	3.506224771	0.479855468	6	5.202265544	2.498356826	1.964458092
7	-5.292646360	2.725767174	1.499469810	8	4.818220316	2.262653680	3.090523308
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1	-4.903172639	3.986427791	-2.508882739	1	7.508753270	2.454525439	-0.096427235
6	-4.812450647	3.922388760	2.133241156	7	6.063855132	1.728320163	1.228527279
1	-4.527166790	3.647957033	3.155385951	6	6.568529097	0.502115749	-1.775657835
1	-5.611241489	4.674639523	2.138002063	1	7.653656581	0.628917524	-1.692195629
7	-3.804591189	4.601381515	-0.890036213	1	6.252715402	0.460855504	-2.824760670
6	-3.695381605	5.329808536	0.348752300	6	6.701981634	0.558764101	1.766505264
1	-4.514343501	6.055404207	0.442230049	1	7.782403146	0.628778173	1.594420810
7	-3.643133673	4.482561208	1.514379868	1	6.471982582	0.549280028	2.838347627
6	-2.657287844	4.668164032	-1.626873750	7	6.229869862	-0.689444155	1.229309010
8	-2.490683149	4.155843746	-2.716522333	6	6.746931130	-1.288977538	0.023542997
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8	-2.136728452	3.944469368	3.170555855	7	6.196812101	-0.758010130	-1.196919154
7	-1.756702106	5.455192230	-0.971623569	6	5.427992764	-1.543120994	1.939000265
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7	3.742645002	-4.574900937	-1.133538560	1	-6.351318965	-0.427577784	-2.589422789
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7	1.707346674	-5.450698555	-1.122086286	6	-0.516448423	-2.240543464	0.441702317
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7	-0.704855121	-5.638297260	-1.122187659	6	0.354246613	0.900946440	-0.939973175
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8	-1.591370205	-4.540293698	3.120725233	1	3.215647814	1.603387852	0.862448632
6	-1.6366630495	-4.880971993	-1.784798214	1	-0.067151091	-2.264831798	-2.252339139
8	-1.466603216	-4.301384382	-2.832847409	1	-2.163212531	-2.112559017	-0.938546427
7	-2.886073060	-5.129989744	1.312368791	1	-2.413652986	-0.291869827	0.742025904
6	-2.723117045	-5.821570071	0.060189132	1	-0.542666335	-0.461566780	-3.839226375
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6	-5.561198120	-3.662332658	0.119128702	1	-0.401602669	-0.193404390	2.252671182
1	-6.170912393	-4.572777970	0.045662875	1	2.024404701	0.266936126	2.562351330
7	-4.751206877	-3.503513552	-1.063034021	1	1.141575885	1.745654180	2.203491691

1	3.459290590	-0.200926002	-0.841806344	7	4.849483222	3.375919818	0.563696186
1	3.386733419	-0.859798580	0.807301485	6	4.464453865	2.051434175	-2.479200354
1	1.474278696	-0.327238534	-2.322377969	8	3.836315888	1.824269324	-3.488602586
1	1.227864713	2.703797799	-0.136069371	6	4.927026805	2.233793288	1.318990070
1	2.200265855	1.916825469	-1.392831518	8	4.548613317	2.106945572	2.461757245
1	-0.879404648	1.644202170	0.679112236	7	5.262061190	1.154027126	-1.814250736
1	-2.409695802	2.519966560	-3.332796643	6	5.974925811	1.761568829	-0.717733759
1	-3.380135539	1.189523197	-3.537565048	1	7.059210468	1.637336038	-0.849480834
1	-1.962857153	1.335862223	-4.430843189	7	5.566387039	1.275800173	0.575274165
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6	-3.195983663	5.924961476	0.199247287	6	6.118994153	0.094667106	1.181238154
1	-4.068107346	6.585432299	0.300933717	1	7.206753999	0.086054838	1.031172973
7	-3.007425560	5.151538293	1.402762217	1	5.874471480	0.149049169	2.248231832
6	-2.226524830	5.250248446	-1.821755336	7	5.273439270	-1.263163639	-1.698551910
8	-2.092876367	4.716447667	-2.899774027	6	5.985747951	-1.758287092	-0.544624863
6	-1.762275809	5.332264368	1.951688911	1	7.069667404	-1.654860903	-0.684241407
8	-1.369969476	4.847330146	2.988922485	7	5.570175439	-1.134928854	0.684563232
7	-1.362071085	6.146612756	-1.250049617	6	4.451662722	-2.210935262	-2.250946365
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1	0.316254581	6.554935421	2.614475463	6	4.202637567	-4.661690396	-2.051686147
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1	1.832881473	7.756895408	-0.461078397	1	5.190653607	-5.101689749	1.535238461
7	1.327848334	6.226892543	0.873703188	1	4.139385094	-4.078236594	2.584436695
6	1.738734989	5.229795612	-2.274040755	7	3.180670869	-5.013799289	1.033135673
8	1.352493933	4.679040676	-3.280259857	6	3.202678925	-5.929577547	-0.080798260
6	2.204230078	5.377876898	1.497218934	1	4.098262909	-6.564057334	-0.043115858
8	2.077451119	4.907455294	2.605173670	7	3.100352460	-5.273345671	-1.361667426
7	2.986011679	5.097979487	-1.716350846	6	2.032626507	-5.126040608	1.777378723
6	3.164925048	5.943910862	-0.561051616	8	1.764147161	-4.474146143	2.760680273
1	4.028393210	6.608308887	-0.702941421	6	1.910751807	-5.534670312	-1.990055289
7	3.290380282	5.214533137	0.675315093	8	1.601770105	-5.173464510	-3.102831027
6	4.072753044	4.479373392	-2.426892403	7	1.264463996	-6.122259913	1.238670342
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7	-4.749154875	-3.283787153	-0.656308111	6	0.002181985	-0.371291410	0.016504149
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7	-5.280799327	-1.206999359	1.772147318	1	2.034918838	1.965236478	-1.493444896
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7	-4.563462989	3.314485680	1.632189438	1	-0.800427211	-1.816701314	1.389353755
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1	1.611207060	-2.179749738	-3.465596279	1	-2.268695152	-5.615487927	-2.867724965
1	0.639075064	-2.961370825	-4.693814959	1	-2.877459859	-6.907040825	-1.759291708
1	-0.558155695	0.355346823	-5.037244611	6	-2.348710426	-5.907421274	1.781934974
1	-0.288428562	-1.179513868	-5.861675993	1	-2.767354447	-6.921268415	1.736718515
1	1.061781845	-0.374046222	-5.062186161	1	-2.194693538	-5.593151430	2.820813833
1	-2.389928416	-1.118306727	-4.217765571	7	-3.244121904	-4.950232201	-1.195160272
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1	-1.615737237	-1.946261274	3.605582929	7	-3.290432878	-4.980864694	1.217950675
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1	2.390724209	-0.858646750	4.290243330	6	-3.812597428	-3.944279521	1.947064983
1	2.006713336	-2.197465212	3.202215624	8	-3.437138850	-3.583775102	3.040314015
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1	6.216563710	-4.535624280	-0.330428148	6	-5.843398191	-2.557653609	1.853342456
7	4.940244364	-3.440148653	0.919863751	1	-6.849713502	-2.976947228	1.727364539
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8	3.520664174	-3.478158754	2.724560341	1	-7.437339761	-1.334292026	-0.001329064
7	3.354589305	-5.197393816	-1.387790067	7	-5.822792932	-1.222963809	1.324683735
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6	2.476742355	-5.925458403	1.669686823	1	-7.522747754	1.150778742	0.213671304
1	2.368834633	-5.575166732	2.703022555	7	-5.816718828	0.988349882	1.419957157
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7	1.134725906	-6.139499673	-1.310760799	1	-6.955742123	2.818131323	-1.397390697
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7	-3.227435023	4.700762793	1.430883336	6	5.446879028	-0.089033641	1.541514430
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7	-1.247419265	5.935824003	-1.021109999	1	5.237240620	-2.447188712	-3.160264028
6	0.158573210	5.198062676	1.911185323	6	-0.236636826	-0.863982336	-1.280871523
8	0.268139886	4.472133731	2.873014494	6	-1.651321582	-0.545874563	-0.787761540
6	-0.213349668	5.489219482	-1.788831420	6	-1.742231350	0.951649492	-0.484849782
8	-0.312658834	4.907293196	-2.852150401	6	0.076952976	-0.059213500	-2.545857139
7	1.196653121	5.746692224	1.202641472	6	0.983305146	1.779065906	-1.128906421
6	0.747817621	6.516363651	0.074585636	6	-1.435776033	1.758693733	-1.747927983
1	1.217770551	7.507772107	0.063568257	6	-0.022211350	1.429557792	-2.221757633
7	0.959747981	5.833227205	-1.181737988	6	-1.953496926	-1.350208107	0.473883864
6	2.542525467	5.781571648	1.704388987	6	0.470852857	-1.319283353	1.100861042
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7	3.427830528	4.861131102	1.046636456	6	0.763240030	-0.522172032	-0.173102901
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7	4.941994747	3.254079509	0.896112229	1	-2.757534533	1.186077017	-0.141736485
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