

Supplementary Materials for

Scalable, Durable, and Malleable PVMDMS@PVP Aerogel Catalyst for CO₂ Capture and Successive Gas-Phase Cycloaddition Reaction

Min *et al.*

Corresponding author. Email: seshim@inha.ac.kr, qianyj@ms.giec.ac.cn

The PDF file includes:

Supplementary Text

Figs. S1 to S48

Tables S1 to S22

Captions for Videos S1 to S2

Other Supplementary Materials for this manuscript include the following:

Videos S1 to S2

Supplementary Text

CO₂ adsorption measurement

The isothermal adsorption profiles of CO₂ were measured using a BELSORP-max (MicrotracBEL Corp., Japan) instrument, where the temperature was controlled using a water bath. Prior to the measurement, the adsorbent was pretreated at 120°C under vacuum for 2 hours.

Cycloaddition of CO₂ and Epoxide to Determine the Optimal Conditions

To determine the optimal conditions, 60 mg of the impregnated aerogel and 30 mmol of epichlorohydrin were added to a 100 mL stainless steel autoclave. Prior to the reaction, the system was purged with CO₂ and pressurized to 1 bar. The reaction was conducted at 70°C for 4 hours. Upon completion, the reaction mixture was extracted with a 1:1 mixture of ethyl acetate and water. The ethyl acetate layer containing the dissolved product was collected for analysis. The epoxide conversion and selectivity were measured using a GC (YL6500 GC, South Korea) equipped with an HP-5 capillary column and a flame ionization detector.

Gas-Phase Cycloaddition of CO₂ and PO in a Batch Reactor

The reaction was conducted in a batch reactor, as illustrated in the left image of Fig. S13. Initially, the reactor was purged with CO₂ to remove residual gases. The internal temperature of the double-jacketed reactor was set to 70°C, and the pressure was equalized by filling the separatory funnel and the column on the right with water until the levels were balanced. During the reaction, CO₂ was supplied continuously, and 240 mL of PO was injected in each cycle using a controlled feed. The products were collected every 4 cycles and analyzed using GC-FID to determine the conversion and selectivity. This process was repeated for 100 cycles.

Gas-Phase Cycloaddition of PO and CO₂ in a Continuous Reactor

The reaction was conducted in a continuous reactor, as illustrated in the right image of Fig. S13. The reactant, propylene oxide (PO), was delivered into the system

via a peristaltic pump (EMP-600G4, South Korea), which transferred PO to a condenser where it was vaporized before entering a three-neck flask. Simultaneously, CO₂ was introduced through a separate inlet into the double-jacketed reactor, maintained at 70°C. Inside the reactor, the gaseous reactants underwent a cycloaddition reaction over the aerogel catalyst, producing liquid products that condensed and collected at the bottom of the reactor. The liquid products were subsequently transferred via another peristaltic pump to a 2 L Duran bottle for collection and analysis.

Breakthrough Measurement

The schematic diagram and actual setup for the breakthrough measurement are shown in Fig. S28 and Fig. S29. A U-tube was used to load the sample, which was pretreated by purging with 99.999% He at 120 °C for 2 hours. After pretreatment, the system was adjusted to the target temperatures (50°C, 70°C, and 100°C), and mixed gases (CO₂/N₂: 4/96, CO₂/N₂: 10/90, CO₂/N₂: 15/85, and CO₂/O₂/N₂: 6/16/78) were introduced. The outlet gases passing through the sample were analyzed using GC-TCD.

Measurement of CO₂ Adsorption Capacity in Ambient Conditions within a Glove Box

The experimental setup is illustrated in Fig. 5E. The impregnated aerogel was placed at the center of the glove box. After sealing the glove box and introducing CO₂, the CO₂ concentration was monitored in real-time using a DH.GAS9 (DAIHAN Scientific, South Korea) to evaluate the change in CO₂ levels.

The Charge and Discharge Performance

The charge and discharge performance of a Li|NCM523 two-electrode cell was investigated using 2032 coin-type cells. The NCM523 electrode consisted of NCM523 powder as an active material, polyvinylidene difluoride as a binder, and super P as a conductive agent (8:1:1 by weight). Two types of electrolyte solutions were prepared for comparison: (i) a commercially available electrolyte containing 1 mol l⁻¹ LiPF₆

dissolved in a mixture of ethylene carbonate (EC), propylene carbonate (PC), and diethyl carbonate (DEC) (1.5:1:1.5 by vol.) and (ii) an electrolyte using PC synthesized in-house via a cycloaddition reaction catalyzed by our silica aerogel-based catalyst, replacing the commercially available PC in the same solvent mixture. Charge/discharge tests were performed at a 1 C rate between 3.0 and 4.3 V for Li|NCM523 cells over 100 cycles at 25°C.

Molecular simulation study

Molecular dynamics (MD) simulations were carried out using the Large-scale Atomic/Molecular Massively Parallel Simulator (LAMMPS). The General Amber Force Field (GAFF), which is well suited for organic molecules, was employed to describe the interatomic interactions. Atomic charges were assigned via the Charge Equilibration (QEq) method. A time step of 1 fs ensured accurate integration of the equations of motion. Nonbonded interactions were truncated at 12 Å, while long-range electrostatic interactions were treated using the Particle-Particle/Particle-Mesh (PPPM) solver. Two polymer systems were constructed: (1) polyethyleneimine (PEI) containing 17.85 wt% of the ionic liquid [EMIm][Br] and (2) neat PEI without ionic liquid. CO₂ or N₂ molecules were randomly placed in the simulation cells. All simulations were conducted in the NPT ensemble (isothermal–isobaric) at 300 K and 1 bar for a total of 20 ns. The final 1 ns of each simulation was used to compute average intermolecular interaction energies, ensuring the systems had reached equilibrium. The intermolecular interaction energy was calculated according to:

$$E_{\text{inter}} = (E_{\text{total}} - (E_{\text{gas}} + E_{\text{IL+PEI or PEI}})) / N_{\text{gas}}$$

where N_{gas} is the number of gas molecules.

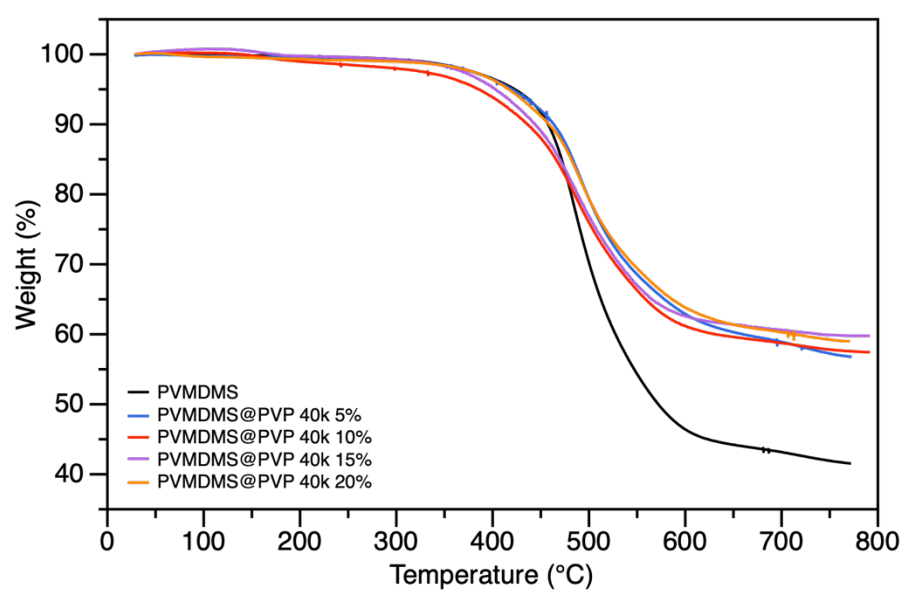


Fig. S1. TG thermograms of PVMDMS aerogels prepared by different amounts of PVP.

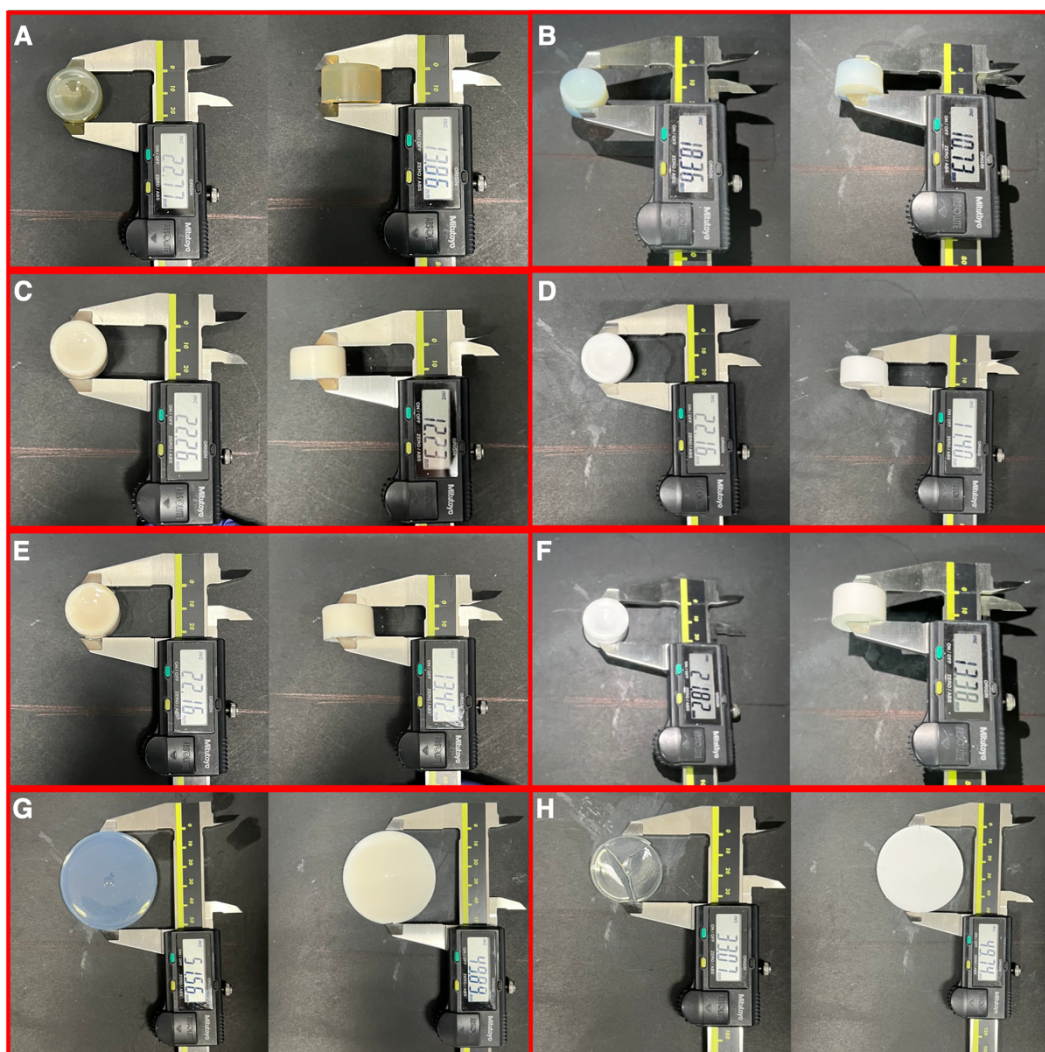


Fig. S2. Photographs of before and after aerogel drying. (A and B) After IPA washing, the extracted PVMDMS wet gel and the resulting aerogel dried under ambient condition. (C and D) The PVMDMS@PVP wet gel extracted after IPA washing, followed by drying into an aerogel using CO₂ supercritical fluid. (E and F) After IPA washing, the extracted PVMDMS@PVP wet gel and the resulting aerogel dried under ambient pressure at 25°C. (G and H) After IPA washing, the extracted form of PVMDMS and PVMDMS@PVP wet gel film, were dried under ambient condition.

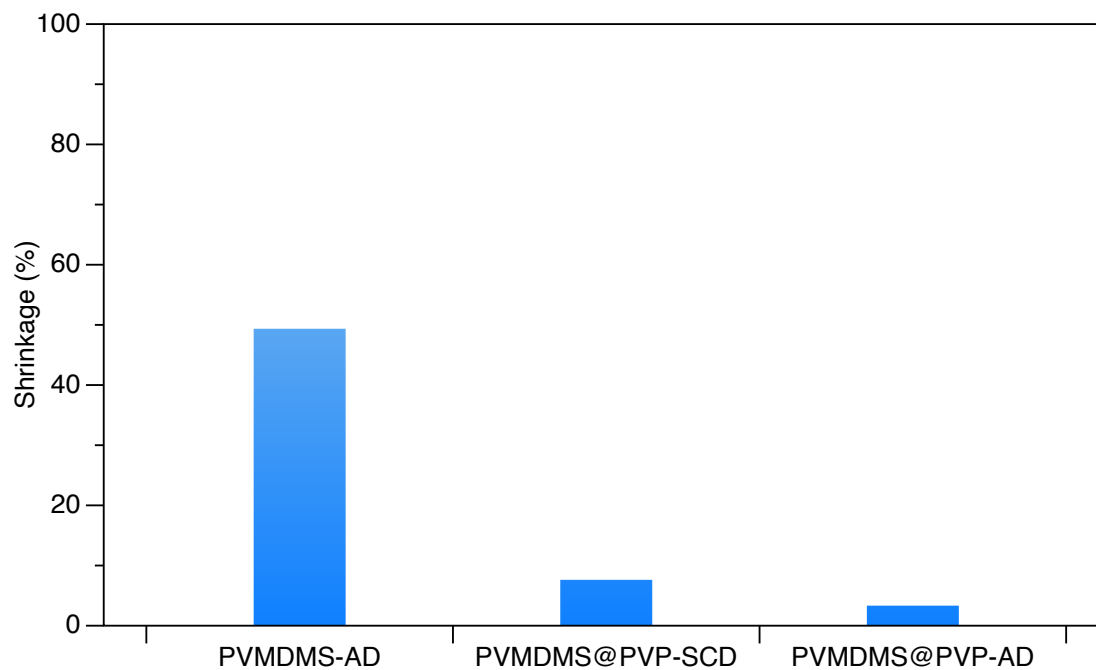


Fig. S3. Shrinkage ratio of PVMDMS-AD, PVMDMS@PVP-SCD, and PVMDMS@PVP-AD. AD refers to drying under ambient condition, and SCD refers to CO₂ supercritical fluid drying.

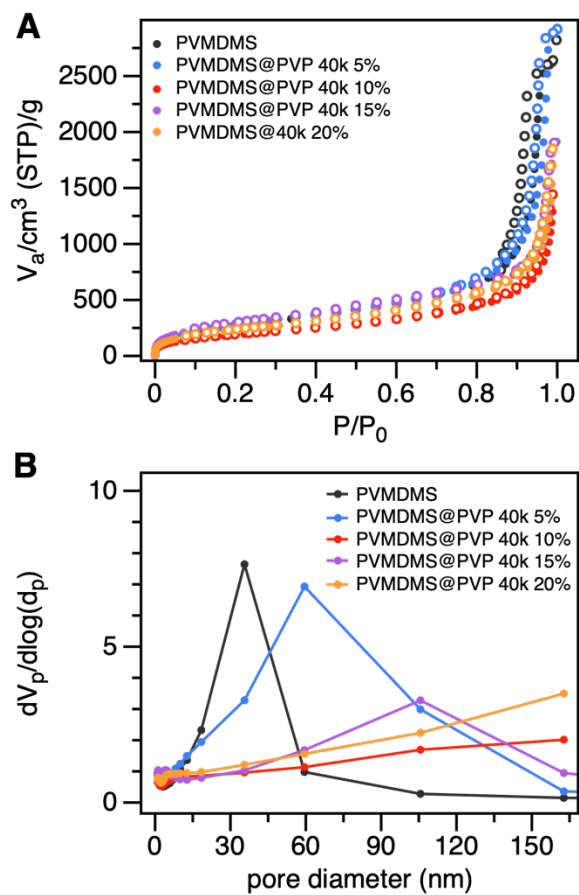


Fig. S4. (A) N_2 adsorption-desorption isotherms at 77K of aerogels with various PVP 40k contents. **(B)** Pore-size distribution calculated from the BJH plots of PVMDMS and PVMDMS@PVP aerogel.

Table S1. Specific surface area, total pore volume, and average pore diameter of aerogels with various PVP 40k contents.

Sample	S _{BET} (m ² /g)	Total pore volume (cm ³ /g)	Average pore diameter (nm)
PVMDMS	1026.9	4.0851	15.913
PVMDMS@PVP 40k 5%	1033.1	4.3882	16.991
PVMDMS@PVP 40k 10%	706.3	2.1761	12.324
PVMDMS@PVP 40k 15%	1057.9	2.7551	10.417
PVMDMS@PVP 40k 20%	863	2.8634	13.272

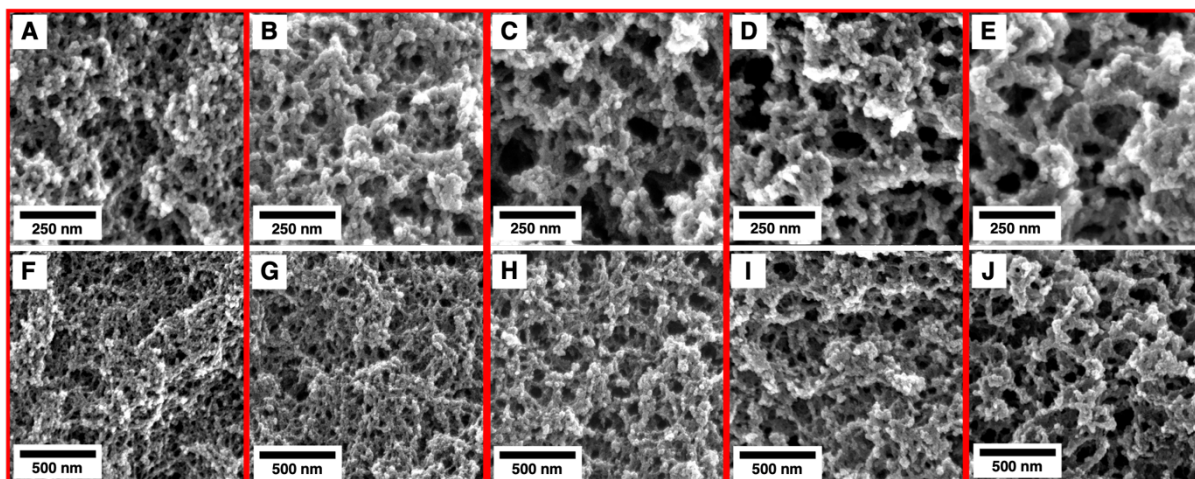


Fig. S5. SEM images of aerogels with PVP contents of 0, 5, 10, 15, and 20 wt%. (**A** to **E**) were acquired at 100,000 $\times$ magnification with scale bars of 250 nm, and (**F**–**J**) were acquired at 50,000 $\times$ magnification with scale bars of 500 nm. In each row, samples are shown in order of increasing PVP content from 0 wt% (**A** and **F**) to 20 wt% (**E** and **J**).

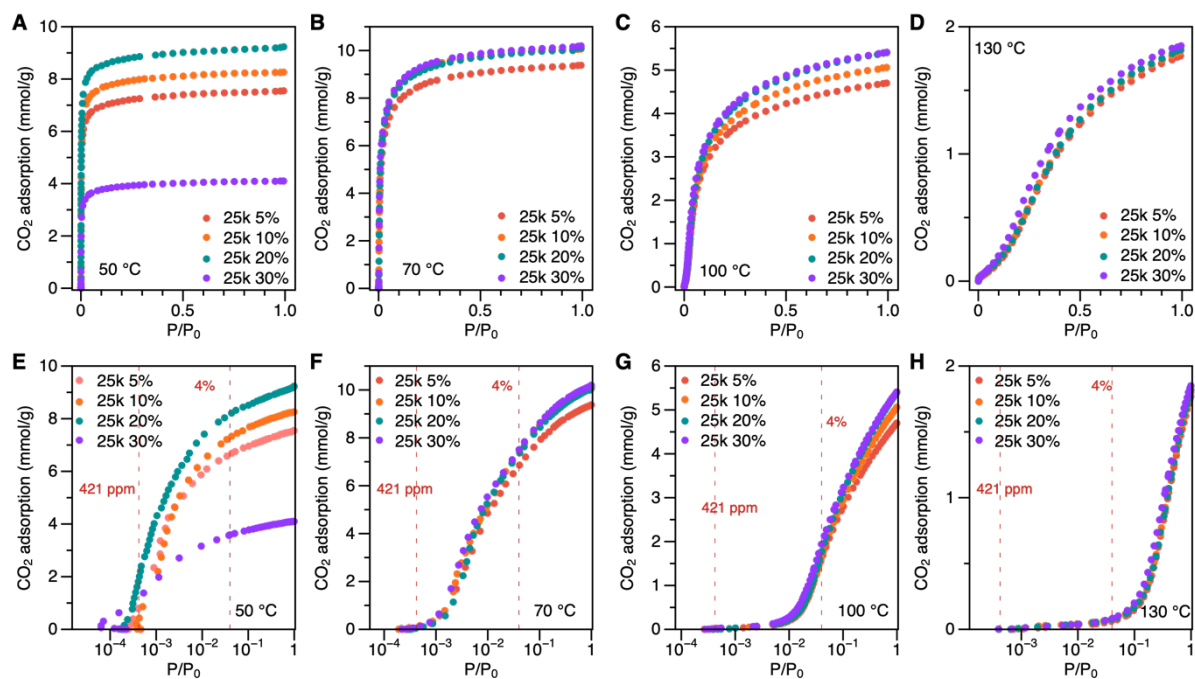


Fig. S6. CO₂ adsorption isotherms with various PEI loading ratios at 50, 70, 100, and 130 °C. (A to D) in normal scale and (E to H) in log scale.

Table S2. CO₂ adsorption capacities from 50°C to 130°C based on PEI loading ratios at 421 ppm, 0.04, 0.15, and 1 bar for fig. S8.

Sample	Temperature (°C)	CO ₂ adsorption (mmol/g)			
		421 ppm	0.04 bar	0.15 bar	1 bar
25k 5%	50	0.79	6.69	7.08	7.55
	70	0.05	6.86	8.25	9.38
	100	-	1.69	3.22	4.7
	130	-	0.06	0.25	1.77
25k 10%	50	0.10	7.33	7.79	8.26
	70	0.16	7.51	8.94	10.06
	100	0.01	1.62	3.44	5.06
	130	-	0.08	0.26	1.8
25k 20%	50	1.81	8.21	8.66	9.23
	70	0.05	7.37	8.88	10.1
	100	-	1.78	3.61	5.4
	130	-	0.08	0.26	1.82
25k 30%	50	1.38	3.59	3.77	4.1
	70	0.06	7.50	9.02	10.2
	100	0.01	1.94	3.74	5.41
	130	-	0.08	0.34	1.85

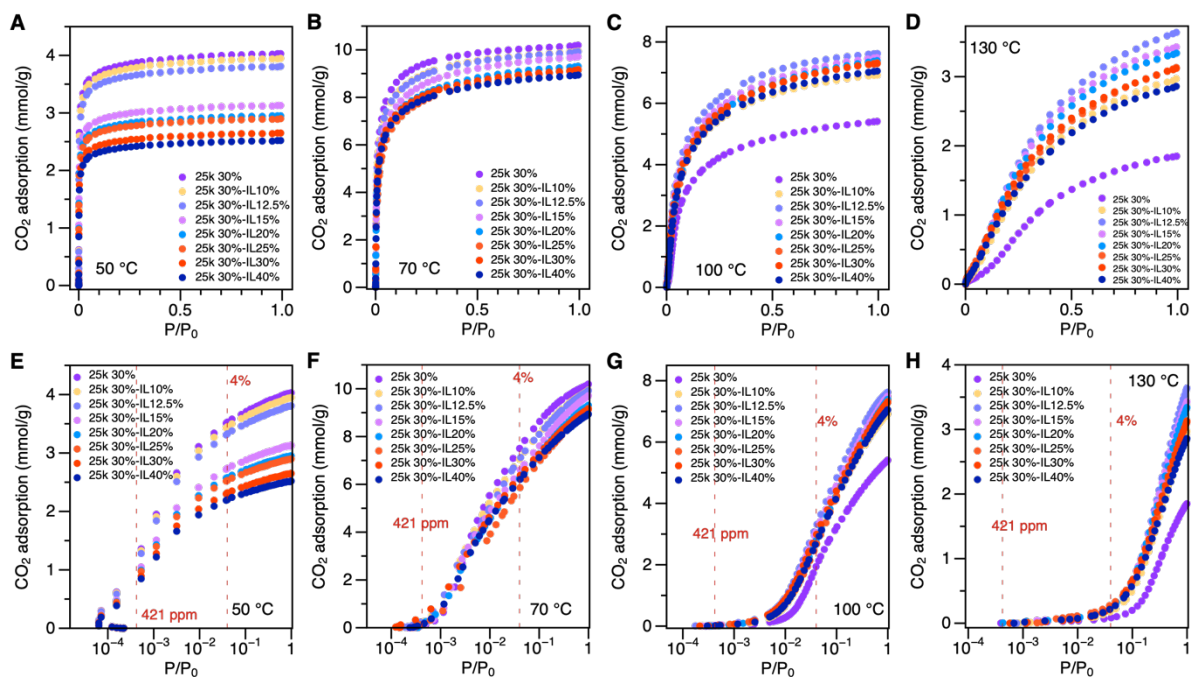


Fig. S7. CO₂ adsorption isotherms with additional loading of ionic liquid at 50, 70, 100, and 130 °C. (A to D) in normal scale and (E to H) in log scale.

Table S3. CO₂ adsorption capacities from 50°C to 130°C with additional loading of ionic liquid at 421 ppm, 0.04, 0.15, and 1 bar for Fig. S9.

Sample	Temperature (°C)	CO ₂ adsorption (mmol/g)			
		421 ppm	0.04 bar	0.15 bar	1 bar
25k 30%	50	1.38	3.59	3.77	4.1
	70	0.06	7.50	9.02	10.2
	100	0.01	1.94	3.74	5.41
	130	-	0.08	0.34	1.85
25k 30%-IL10%	50	1.33	3.45	3.69	3.95
	70	0.26	7.05	8.53	9.95
	100	0.02	2.72	4.78	6.92
	130	-	0.17	0.78	2.97
25k 30%-IL12.5%	50	1.28	3.33	3.56	3.81
	70	0.23	7.12	8.51	9.92
	100	0.03	3.32	5.44	7.62
	130	-	0.23	0.99	3.64
25k 30%-IL15%	50	1.05	2.74	2.93	3.13
	70	0.05	6.61	8.09	9.71
	100	0.02	3.06	5.13	7.49
	130	-	0.24	1.03	3.43
25k 30%-IL20%	50	0.99	2.58	2.76	2.95
	70	0.01	6.24	7.70	9.31
	100	0.01	2.78	4.92	7.39
	130	-	0.26	1.04	3.34
25k 30%-IL25%	50	0.97	2.53	2.71	2.90
	70	0.12	5.86	7.41	9.18
	100	0.02	2.68	4.84	7.32
	130	-	0.27	0.95	3.13
25k 30%-IL30%	50	0.89	2.32	2.48	2.65
	70	0.03	6.38	7.65	9.14

25k 30%-IL40%	100	0.01	2.99	4.97	7.30
	130	-	0.23	0.98	3.12
	50	0.84	2.20	2.36	2.52
	70	0.18	6.21	7.52	8.94
	100	0.01	2.66	4.75	7.05
	130	-	0.21	0.87	2.86

Table S4. CO₂ adsorption capacities of CO₂ at 421 ppm, 0.04, 0.15, and 1 bar from 50°C to 130°C for Figure. 2.

Sample	Temperature (°C)	CO ₂ adsorption (mmol/g)			
		421 ppm	0.04 bar	0.15 bar	1 bar
2000	50	-	5.10	5.71	6.42
	70	0.03	5.99	7.67	9.19
	100	0.07	1.46	3.08	4.63
	130	-	0.08	0.20	0.91
25k 30%	50	1.38	3.59	3.77	4.10
	70	0.05	7.50	9.02	10.20
	100	0.02	2.13	3.74	5.41
	130	-	0.08	0.34	1.85
25k 30%-IL12.5%	50	1.02	3.23	3.56	3.81
	70	0.23	7.12	8.51	9.92
	100	0.05	3.32	5.44	7.62
	130	-	0.27	0.99	3.64

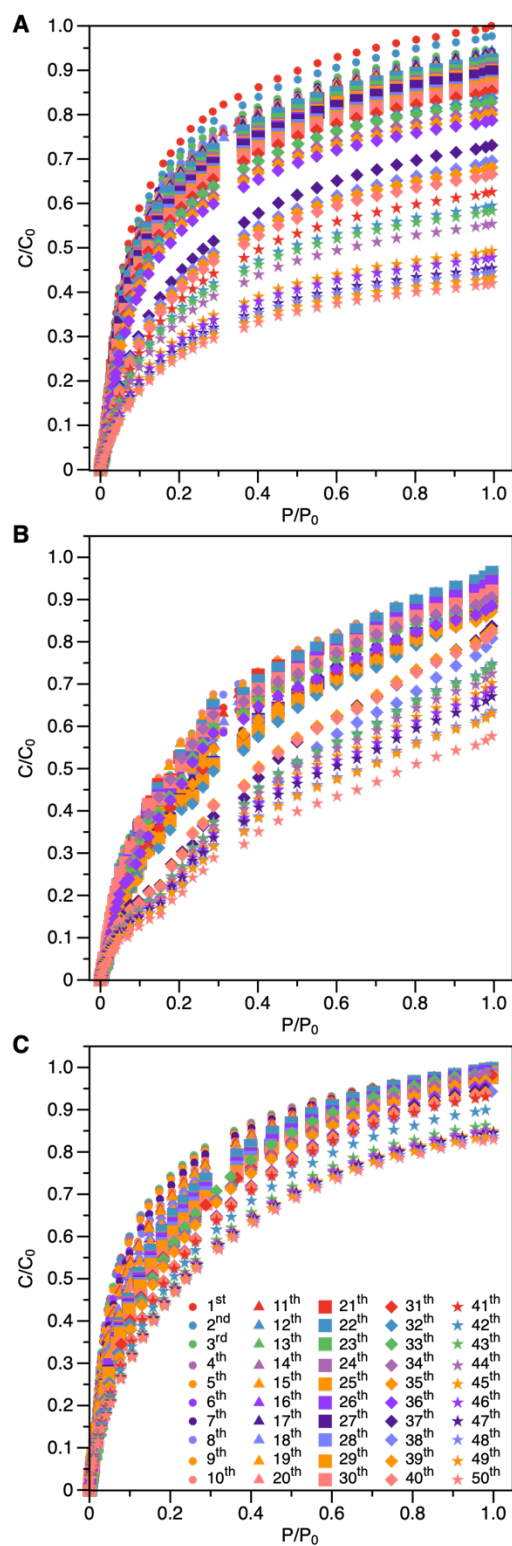


Fig. S8. CO₂ adsorption capacities at 100°C for 50 cycles. (A) 2000. (B) 25k 30%. (C) 25k 30% IL12.5%.

Table S5. CO₂ adsorption capacities at 100°C for 50 cycles.

Cycle number	CO ₂ adsorption					
	2000		25k 30%		25k 30%-IL12.5%	
	mmol/g	%	mmol/g	%	mmol/g	%
1 st	4.87	100.00	5.40	100.00	7.61	100.00
2 nd	4.76	97.74	5.40	100.00	7.58	99.61
3 rd	4.62	94.87	5.40	100.00	7.61	100.00
4 th	4.56	93.63	5.39	99.81	7.60	99.87
5 th	4.55	93.43	5.40	100.00	7.61	100.00
6 th	4.58	94.05	5.39	99.81	7.59	99.74
7 th	4.59	94.25	5.40	100.00	7.61	100.00
8 th	4.59	94.25	5.40	100.00	7.58	99.61
9 th	4.57	93.84	5.40	100.00	7.61	100.00
10 th	4.58	94.05	5.40	100.00	7.61	100.00
11 th	4.58	94.05	5.39	99.81	7.60	99.87
12 th	4.59	94.25	5.39	99.81	7.60	99.87
13 th	4.57	93.84	5.39	99.81	7.59	99.74
14 th	4.55	93.43	5.39	99.81	7.55	99.21
15 th	4.57	93.84	5.39	99.81	7.59	99.74
16 th	4.57	93.84	5.38	99.63	7.59	99.74
17 th	4.57	93.84	5.39	99.81	7.57	99.47
18 th	4.55	93.43	5.39	99.81	7.58	99.61
19 th	4.53	93.02	5.39	99.81	7.58	99.61

20 th	4.49	92.20	5.36	99.26	7.54	99.08
21 th	4.50	92.40	5.39	99.81	7.59	99.74
22 th	4.50	92.40	5.39	99.81	7.59	99.74
23 th	4.45	91.38	5.37	99.44	7.53	98.95
24 th	4.41	90.55	5.35	99.07	7.47	98.16
25 th	4.38	89.94	5.36	99.26	7.52	98.82
26 th	4.36	89.53	5.30	98.15	7.53	98.95
27 th	4.36	89.53	5.22	96.67	7.47	98.16
28 th	4.26	87.47	5.22	96.67	7.48	98.29
29 th	4.24	87.06	5.15	95.37	7.43	97.63
30 th	4.19	86.04	5.11	94.63	7.42	97.50
31 th	4.15	85.22	5.11	94.63	7.41	97.37
32 th	4.07	83.57	5.08	94.07	7.40	97.24
33 th	4.03	82.75	5.00	92.59	7.50	98.55
34 th	3.94	80.90	4.99	92.41	7.50	98.55
35 th	3.90	80.08	4.90	90.74	7.37	96.85
36 th	3.83	78.64	4.92	91.11	7.28	95.66
37 th	3.56	73.10	4.90	90.74	7.22	94.88
38 th	3.38	69.40	4.84	89.63	7.17	94.22
39 th	3.32	68.17	4.78	88.52	7.16	94.09
40 th	4.49	92.20	4.74	87.78	7.12	93.56
41 th	3.24	66.53	4.32	80.00	7.08	93.04
42 th	2.90	59.55	4.32	80.00	6.84	89.88

43th	2.84	58.32	4.29	79.44	6.57	86.33
44th	2.70	55.44	4.19	77.59	6.48	85.15
45th	2.40	49.28	4.06	75.19	6.46	84.89
46th	2.33	47.84	3.98	73.70	6.45	84.76
47th	2.21	45.38	3.88	71.85	6.43	84.49
48th	2.17	44.56	3.67	67.96	6.37	83.71
49th	2.10	43.12	3.63	67.22	6.35	83.44
50th	2.04	41.89	3.33	61.67	6.31	82.92

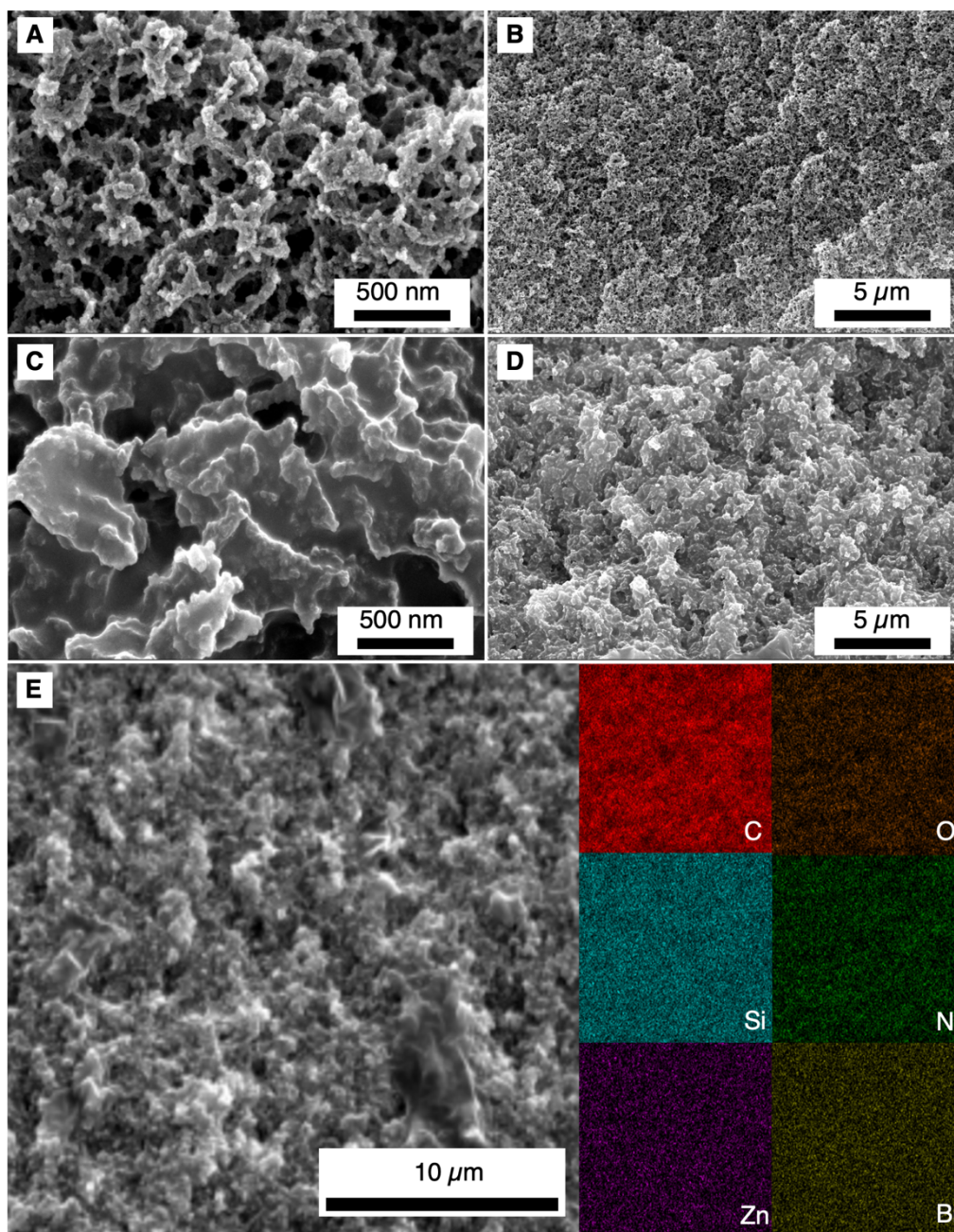


Fig. S9. SEM images of **(A and B)** PVMDMS@PVP aerogel before impregnation and **(C and D)** 25k 30%-IL 12.5%. **(E)** EDX elemental mapping images of 25k 30%-IL 12.5%.

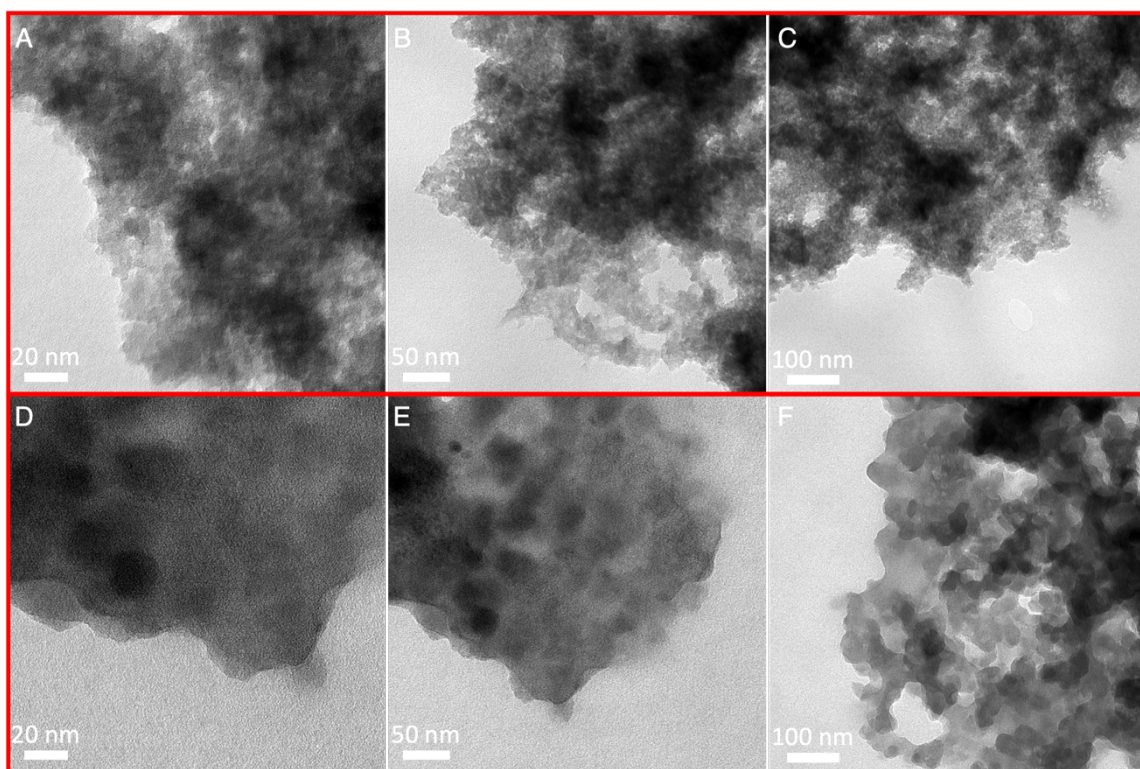


Fig. S10. TEM images of **(A to C)** PVMDMS@PVP aerogel before impregnation and **(D to F)** 25k 30%-IL 12.5%.

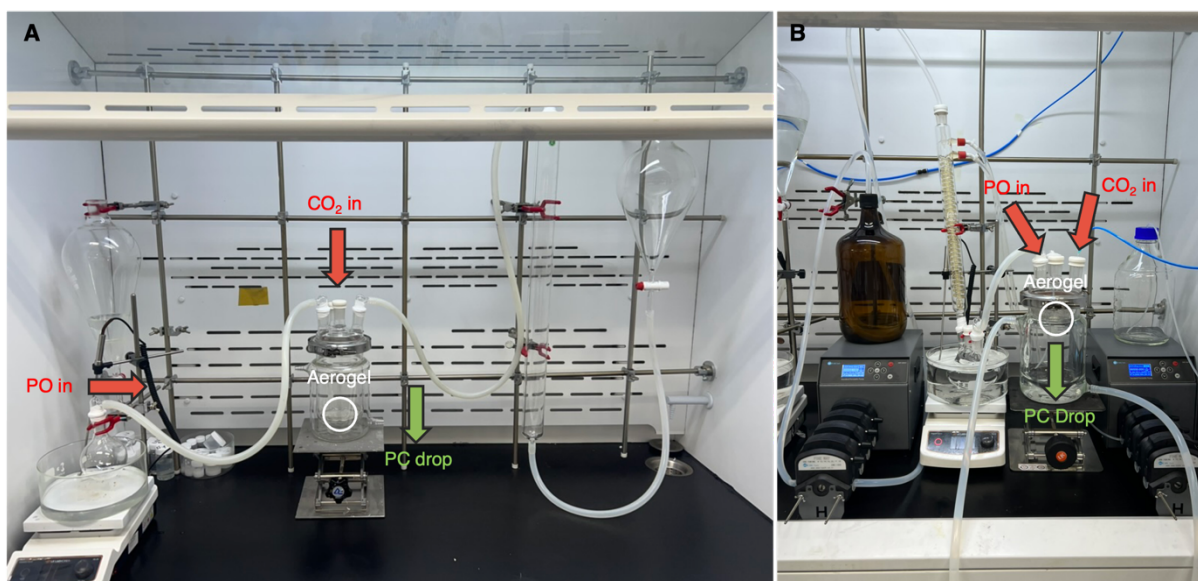
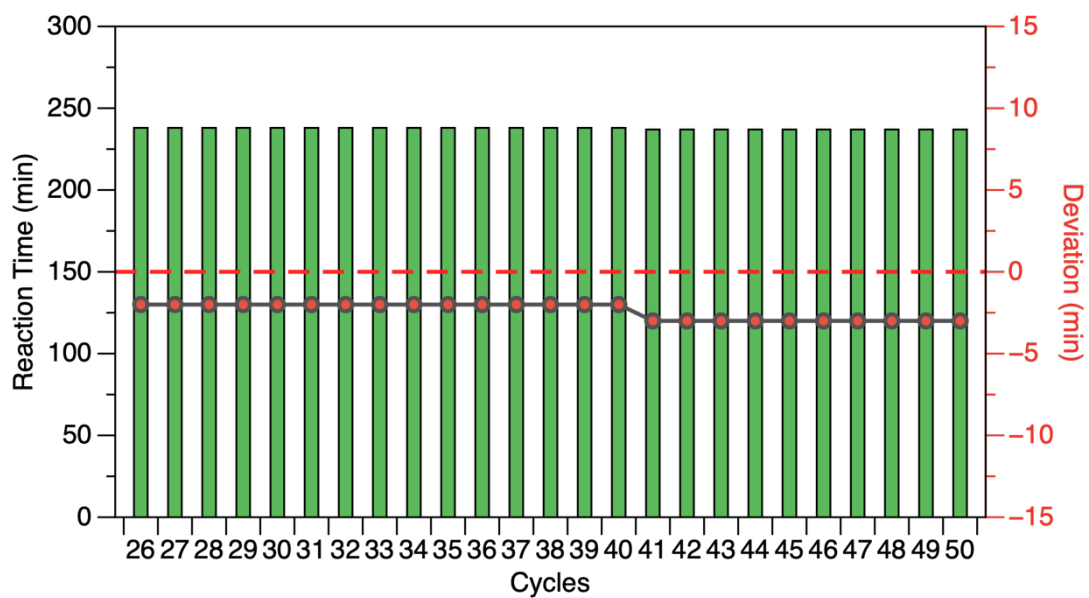
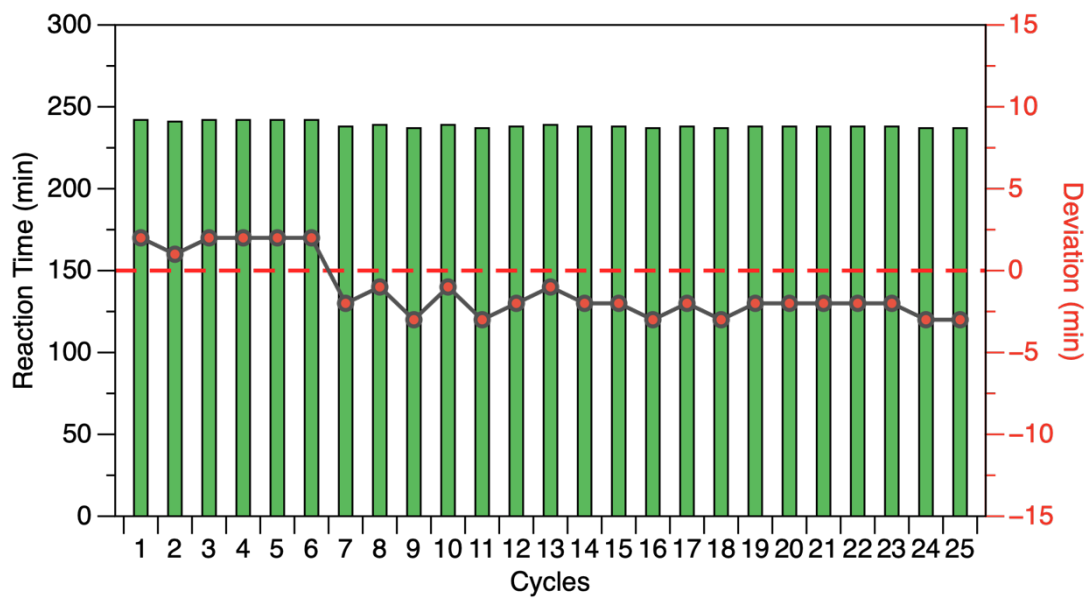


Fig. S11. Photographs of reactor for reactions in the gas-gas phase: **(A)** Batch reactor. **(B)** Continuous reactor.



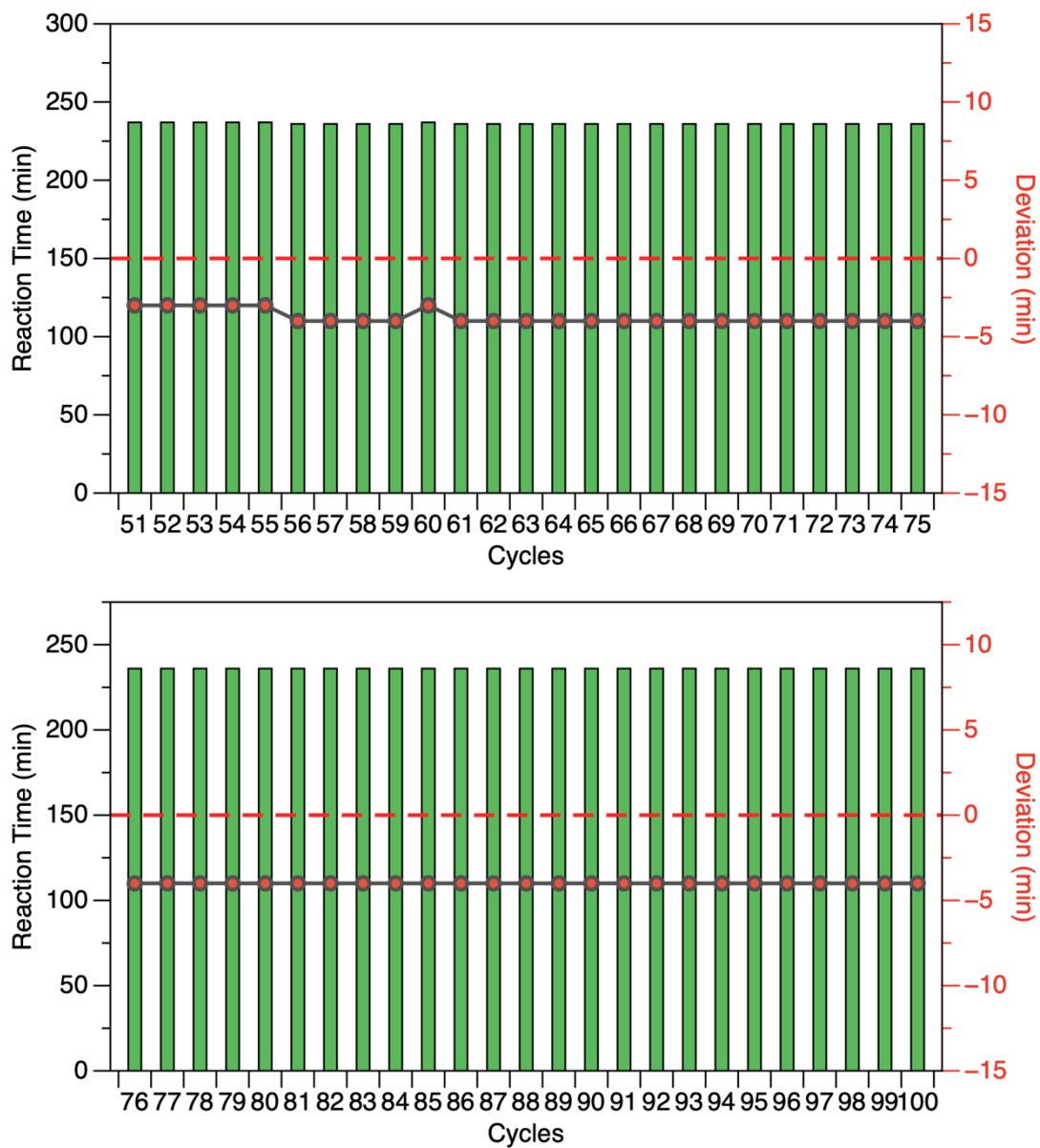
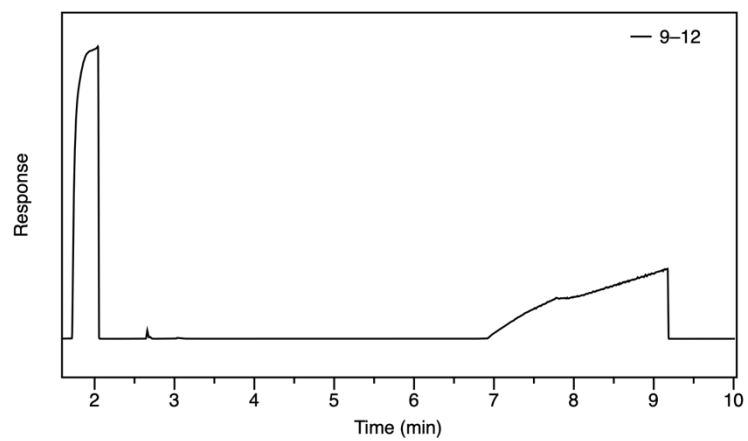
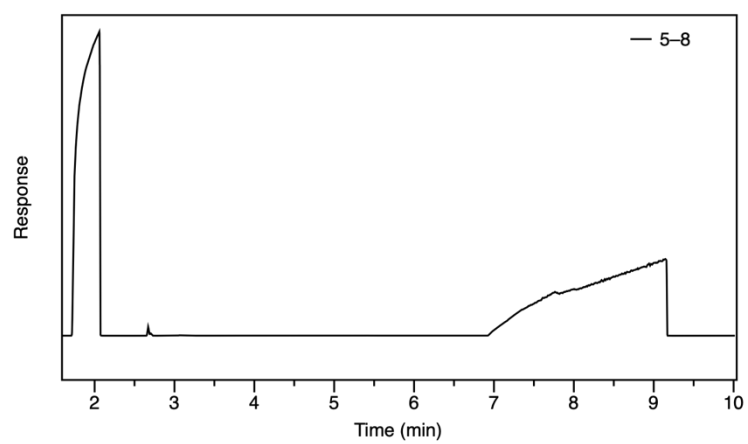
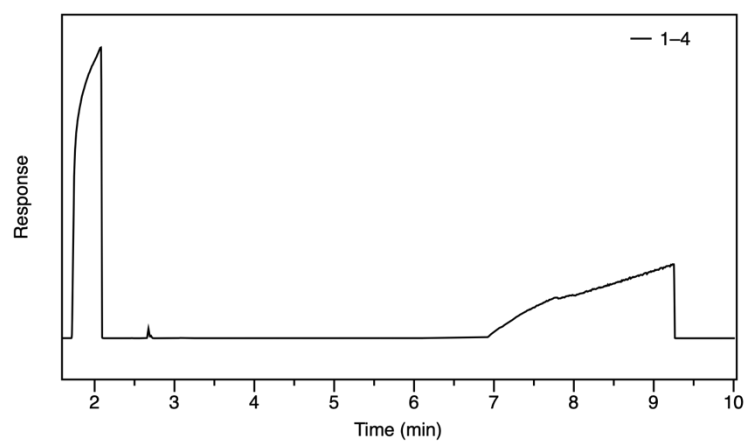
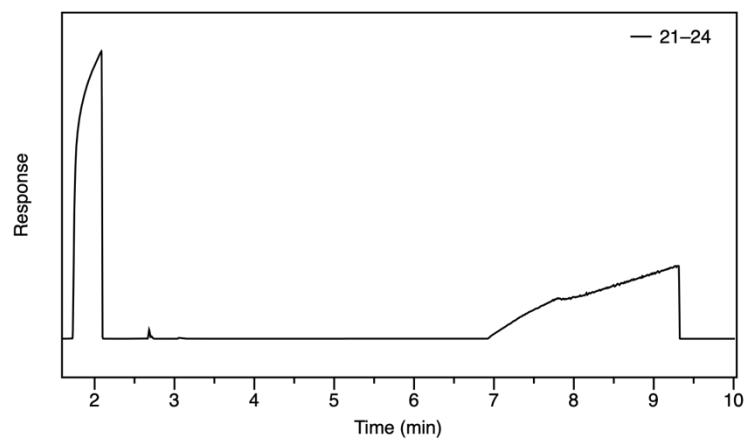
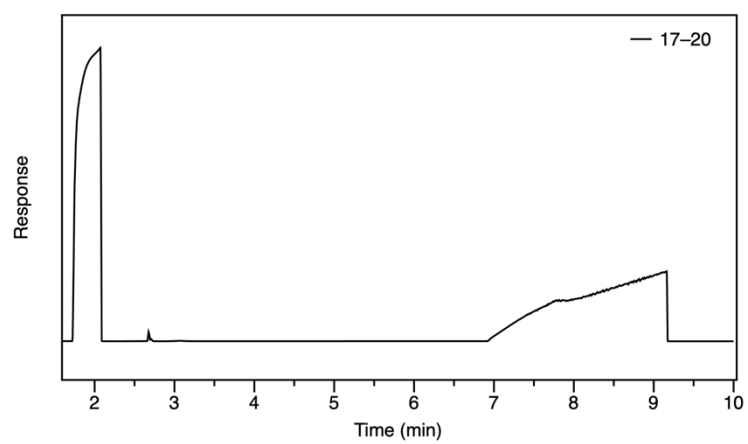
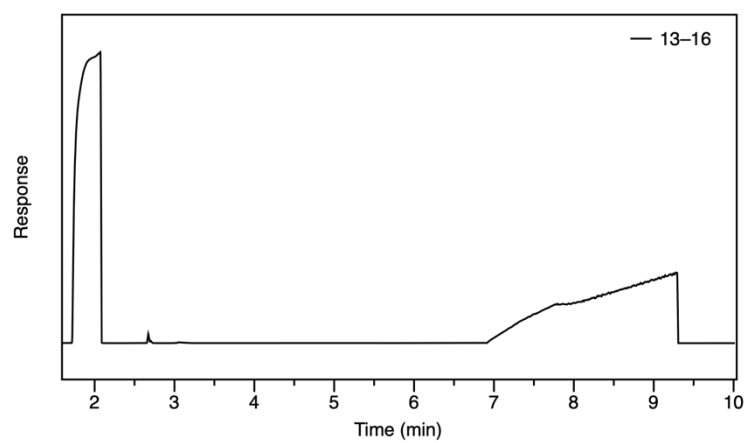
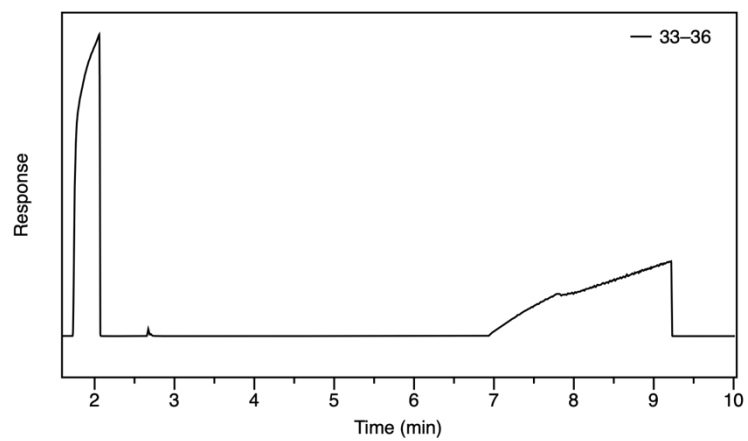
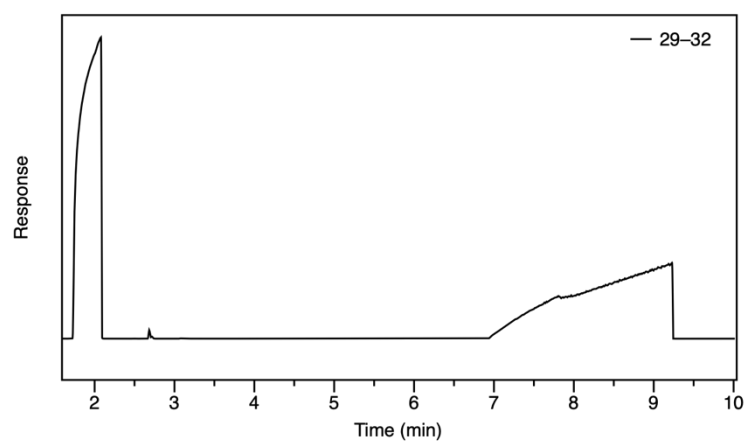
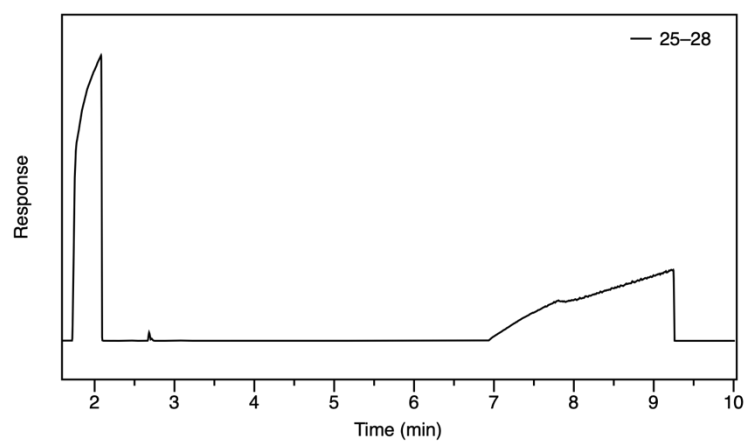
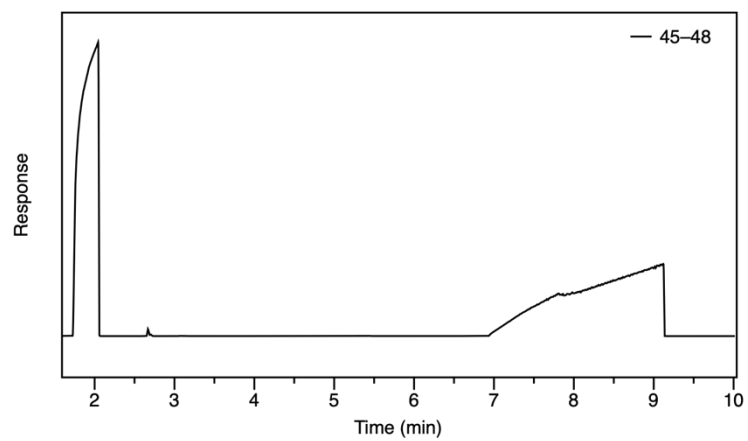
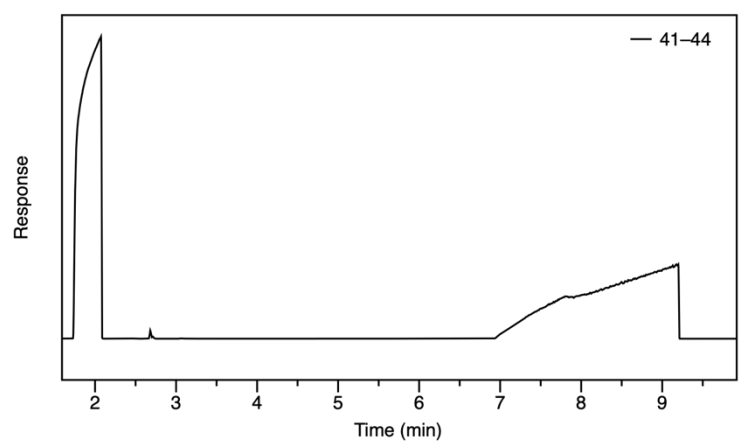
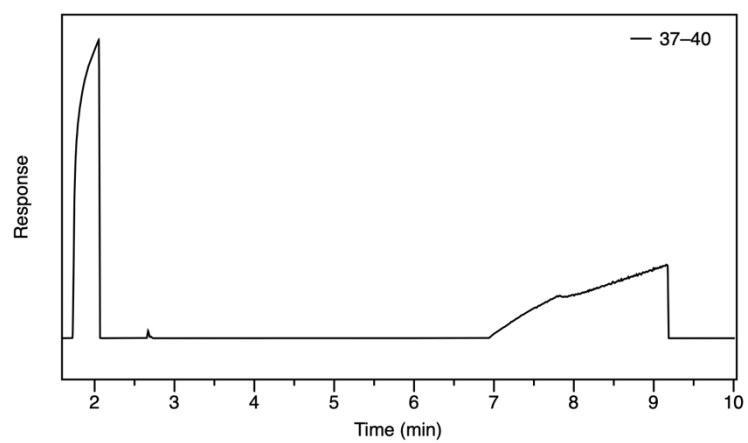


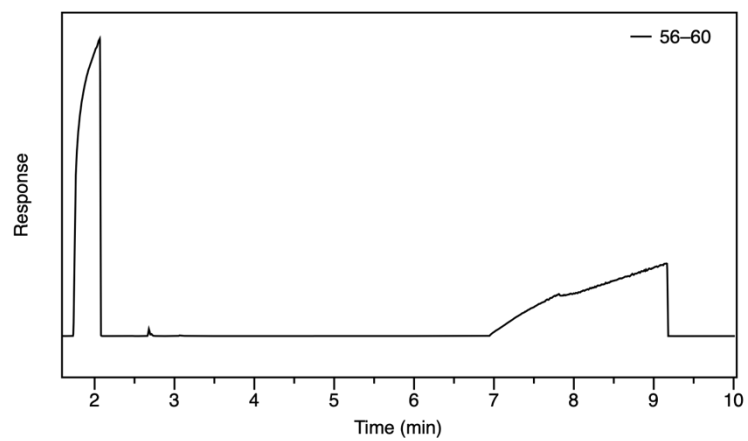
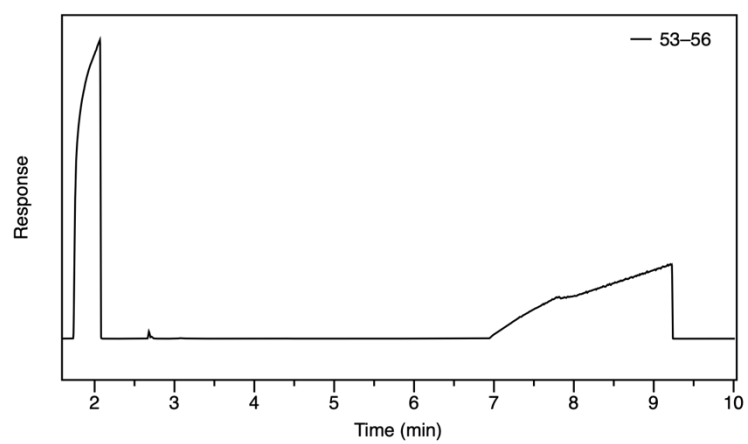
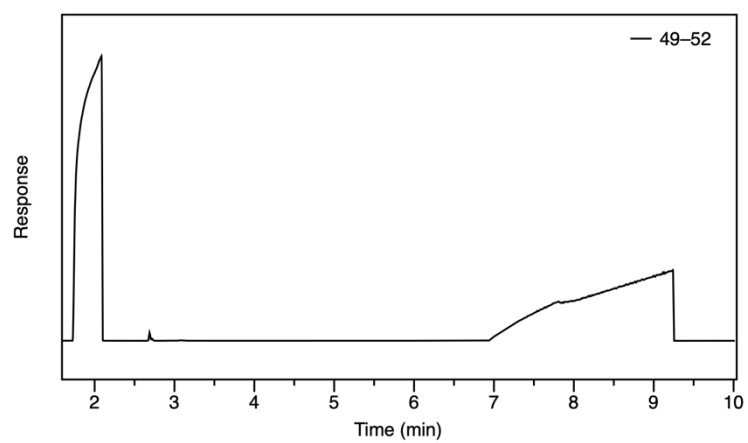
Fig. S12. Variation in reaction time in batch reactor.

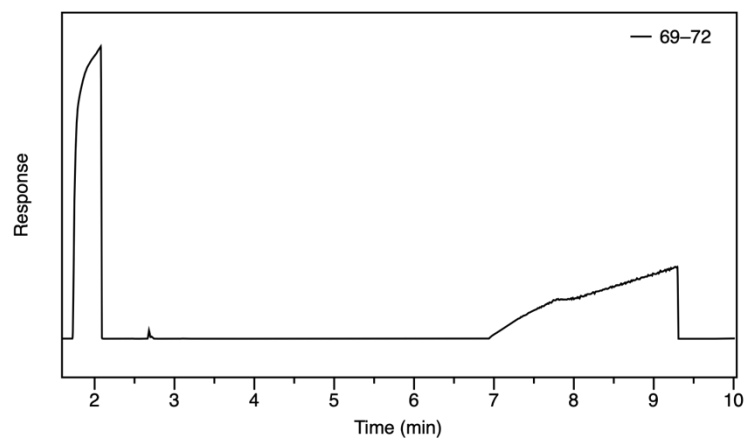
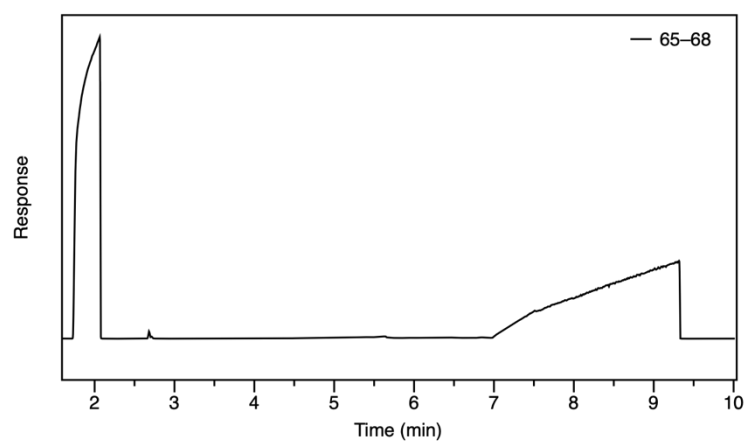
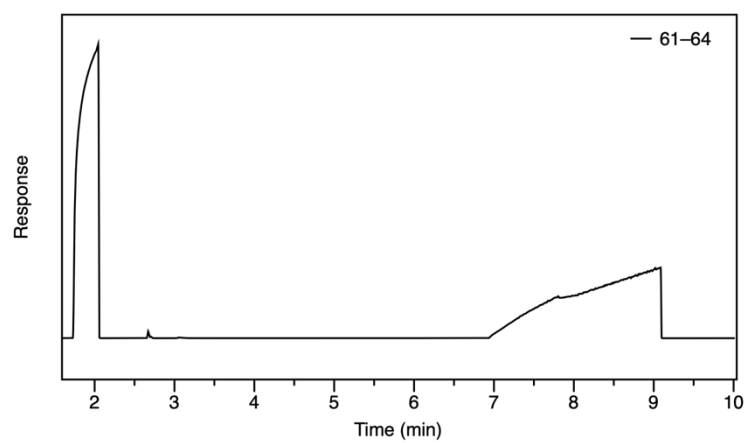


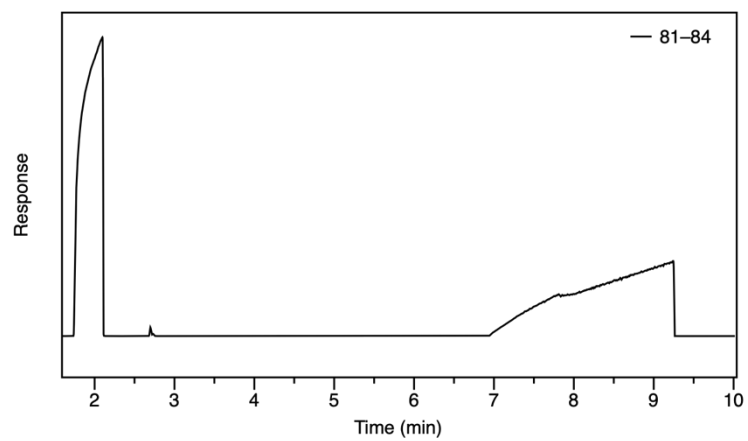
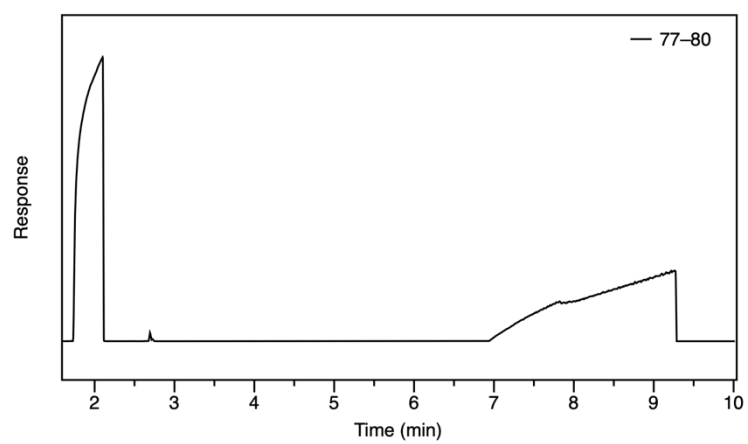
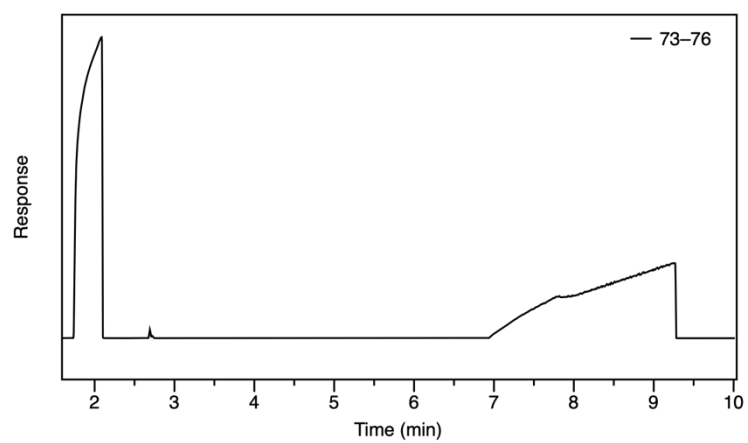


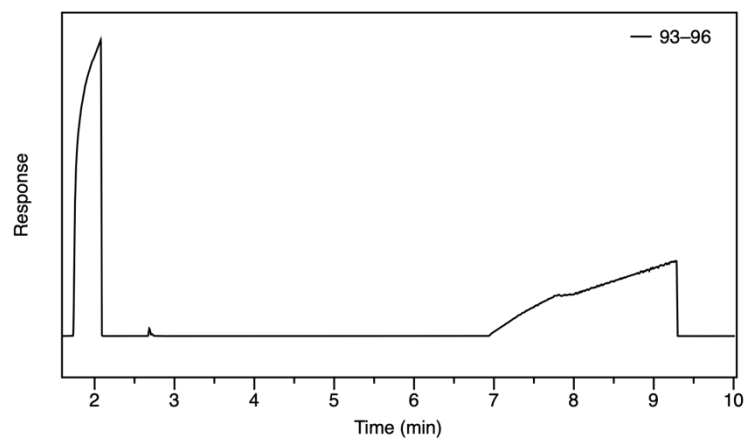
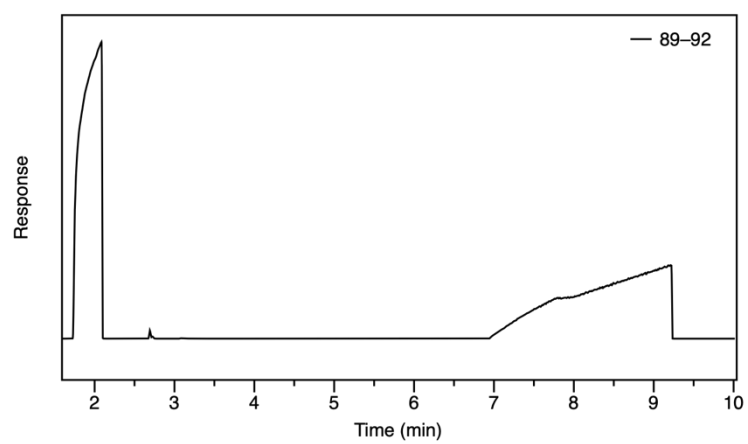
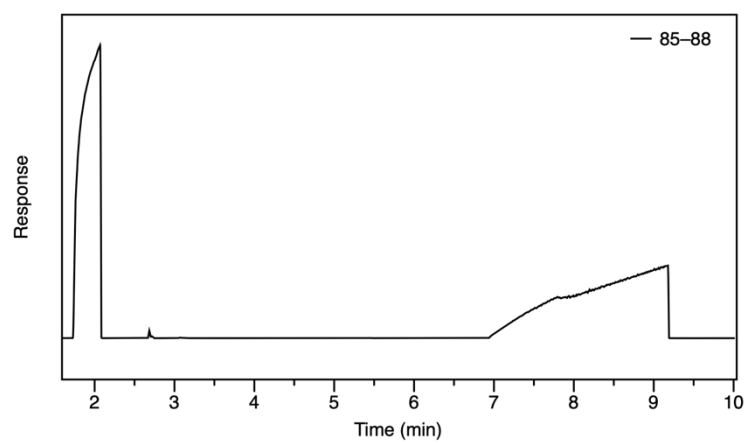












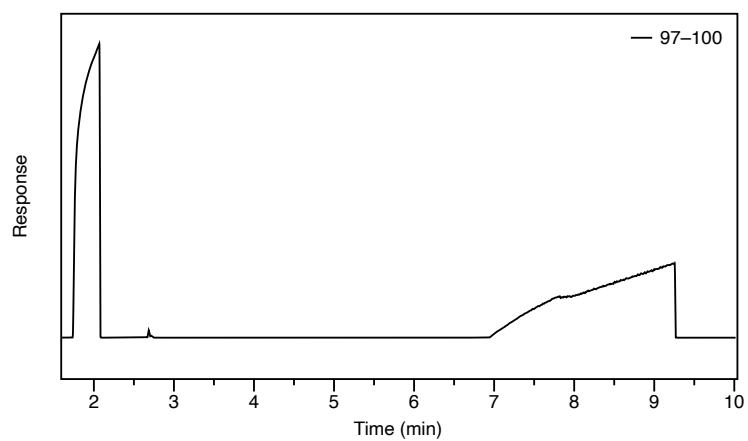


Fig. S13. GC data collected after the cycloaddition of CO₂ to propylene oxide from 1st to 100th cycles in batch system at 70°C. Peak 2.05 and 9.09 min correspond to ethyl acetate and propylene carbonate.

Table S6. Numerical values for peak areas of products and by-products from 1st to 100th cycles in the batch reactor, along with calculated yield and selectivity.

Cycles	Area (uV*sec)		Yield (%)	Selectivity (%)
	By-product	Product		
1–4	250	193330.8	89.90	99.87
5–8	353.2	175848.5	100.81	99.80
9–12	214.6	159355.7	92.23	99.87
13–16	240.6	182345.9	92.30	99.87
17–20	276.5	182368.1	92.88	99.85
21–24	240.6	182301.6	91.27	99.87
25–28	201.1	186073.6	91.50	99.89
29–32	225.9	182270	91.78	99.88
33–36	226.8	179099.2	97.72	99.87
37–40	234	178272	96.86	99.87
41–44	276.1	190107.6	93.56	99.85
45–48	222.8	173528.2	92.87	99.87
49–52	266.4	196376	92.46	99.86
53–56	287.2	169860	93.07	99.83
57–60	341.3	193308.6	92.91	99.82
61–64	314.4	164892.1	93.42	99.81
65–68	307.1	190342.5	93.72	99.84
69–72	304.5	189458.1	93.90	99.84
73–76	332.7	192247.3	93.56	99.83
77–80	329.8	195476.6	93.72	99.83
81–84	267.4	193329.4	93.63	99.86
85–88	249.6	189968.8	94.92	99.87
89–92	231.2	190038.9	97.24	99.88
93–96	295.5	189921.4	94.84	99.84
97–100	257.7	192471.7	91.81	99.87

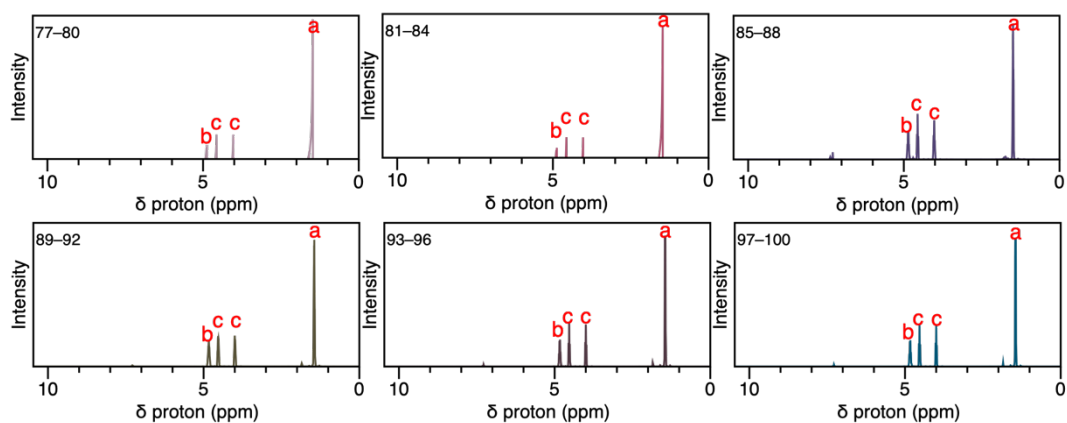


Fig. S14. ¹H-NMR spectra collected after the cycloaddition of CO₂ to propylene oxide from 1st to 100th cycles in batch system at 70°C. Peaks for corresponding protons are marked in the spectrum.

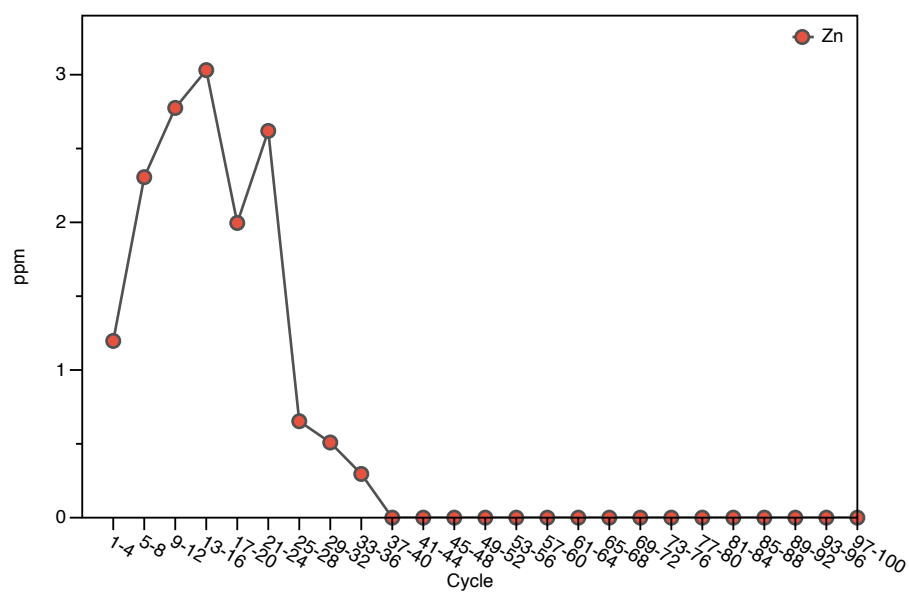
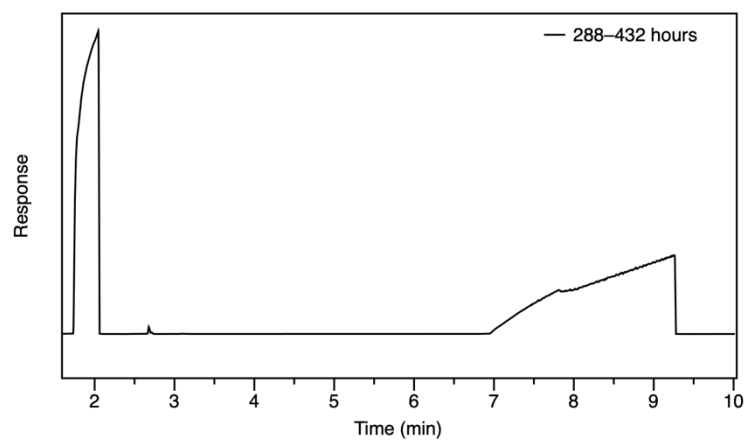
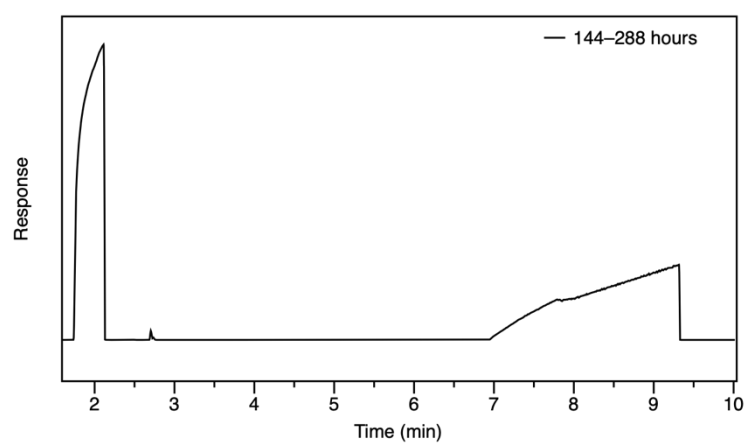
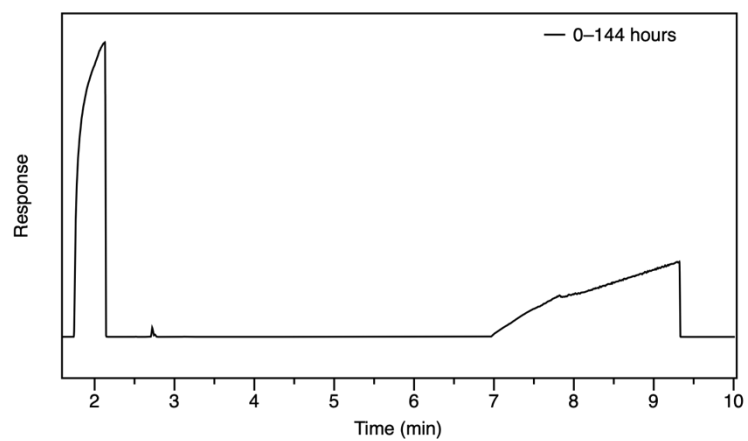
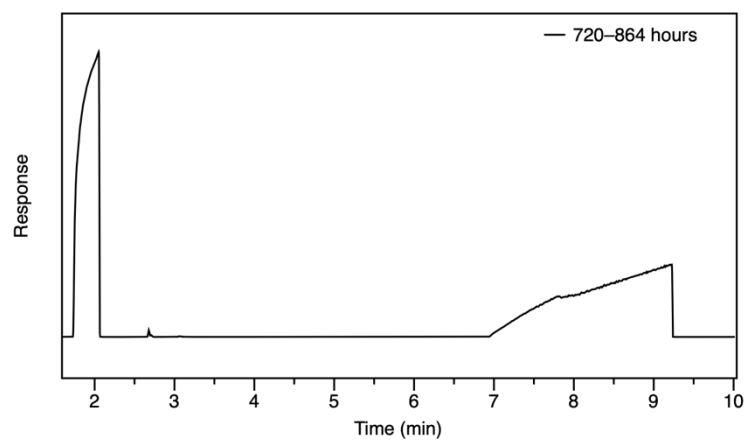
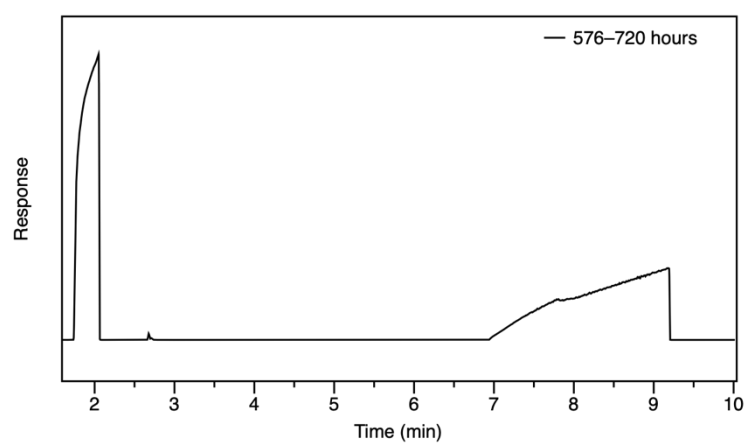
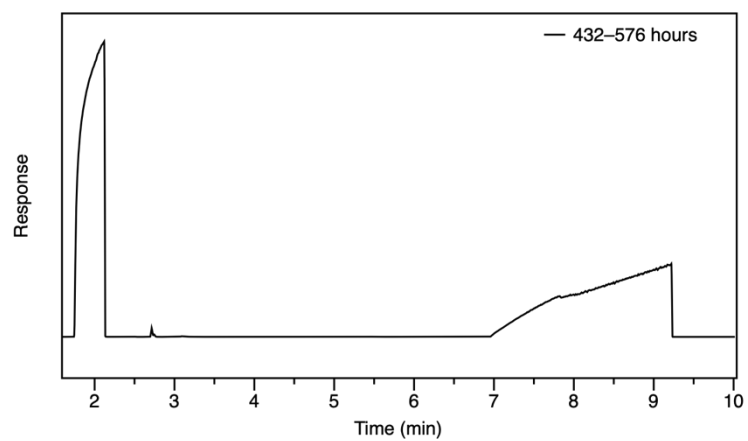
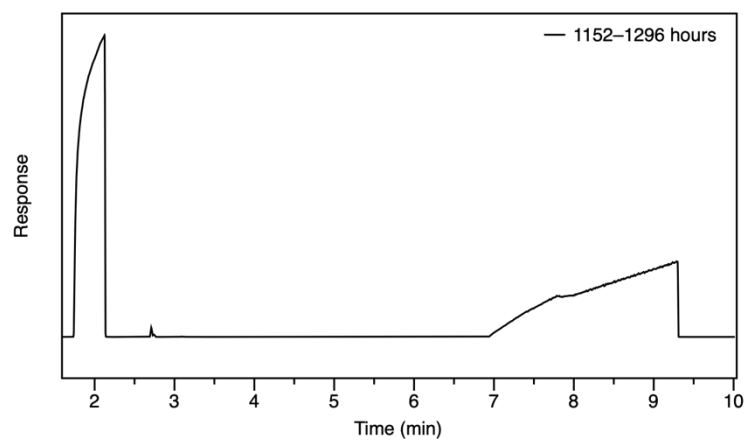
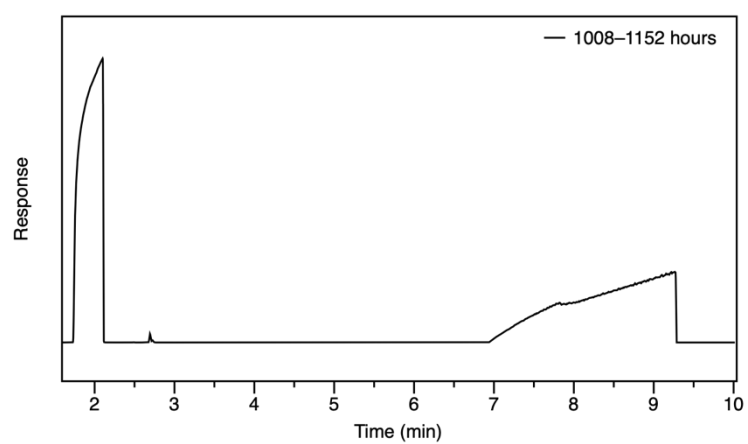
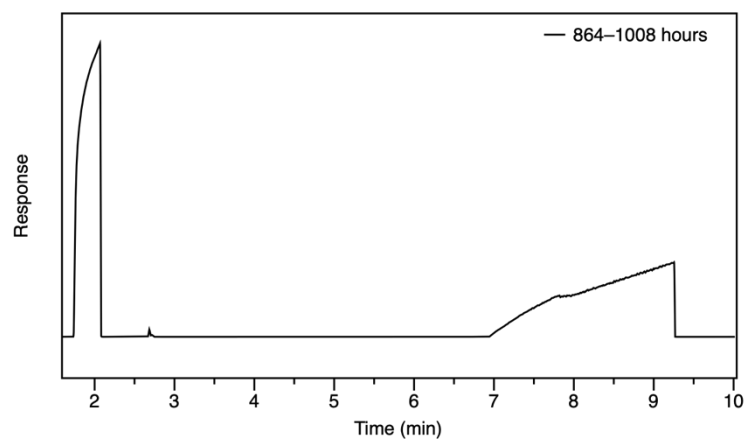
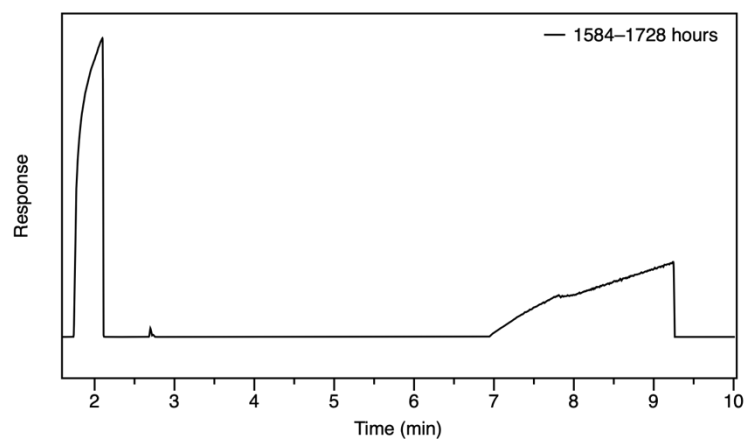
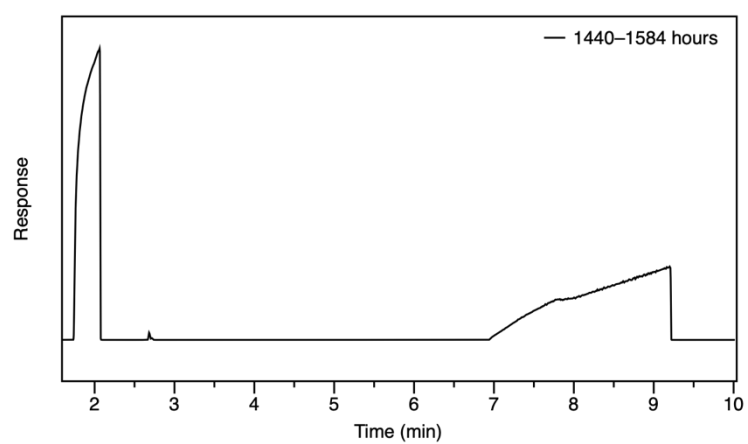
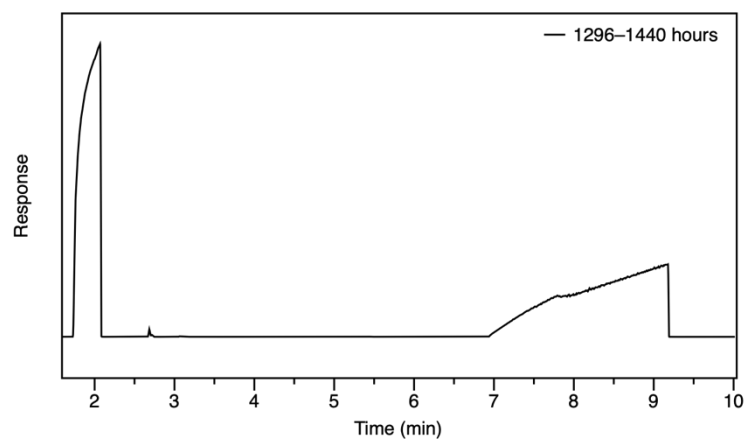


Fig. S15. Concentration of Zn^{2+} in the product from batch system.









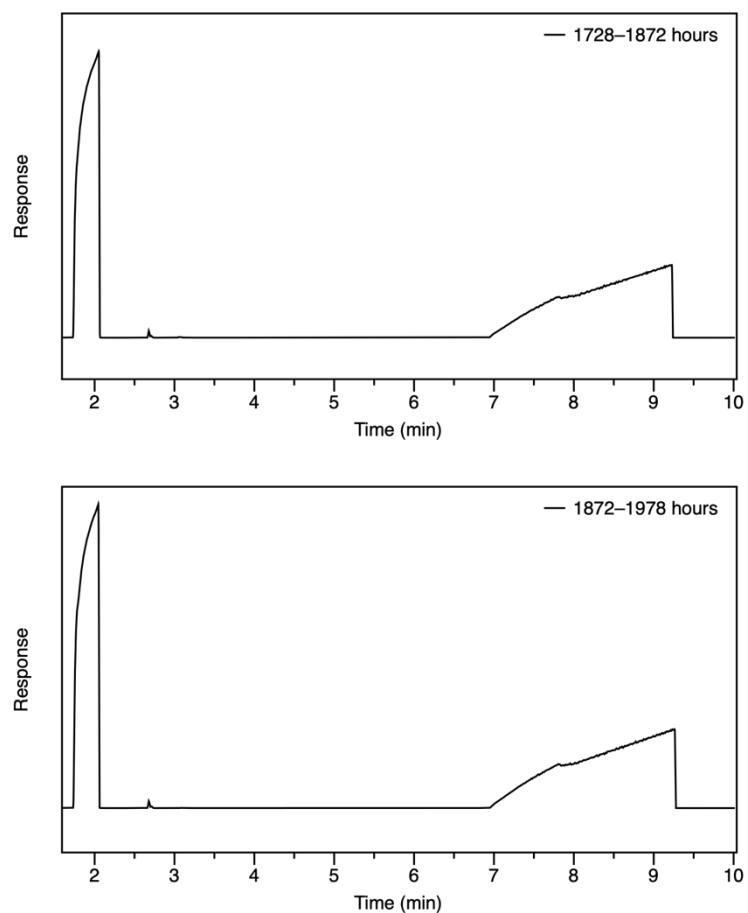


Fig. S16. GC data collected after the cycloaddition of CO₂ to propylene oxide from 0 to 1978 hours in continuous system at 50°C. Peak 2.05 and 9.09 min correspond to ethyl acetate and propylene carbonate.

Table S7. Numerical values for peak areas of products and by-products from 0 to 1978 hours in the continuous reactor at 50°C, along with calculated yield and selectivity.

Time (hours)	Area (uV*sec)		Yield (%)	Selectivity (%)
	By-product	Product		
0–144	267	215869.7	83.33	99.87
144–288	181.4	185347.4	97.78	99.87
288–432	181.4	185347.4	97.78	99.87
432–576	254.8	192381.4	98.33	99.88
576–720	249.3	194839.5	98.23	99.90
720–864	213.5	195431.2	98.21	99.90
864–1008	204.1	203944.7	98.24	99.87
1008–1152	210.5	201829.6	98.26	99.87
1152–1296	195.6	199832.4	98.24	99.89
1296–1440	194.8	195832.2	98.21	99.90
1440–1584	190.4	197321.8	98.21	99.90
1584–1728	189.3	194496.1	98.17	99.90
1728–1872	193.5	193247.3	98.26	99.90
1872–1978	195.2	194852.6	73.30	99.90

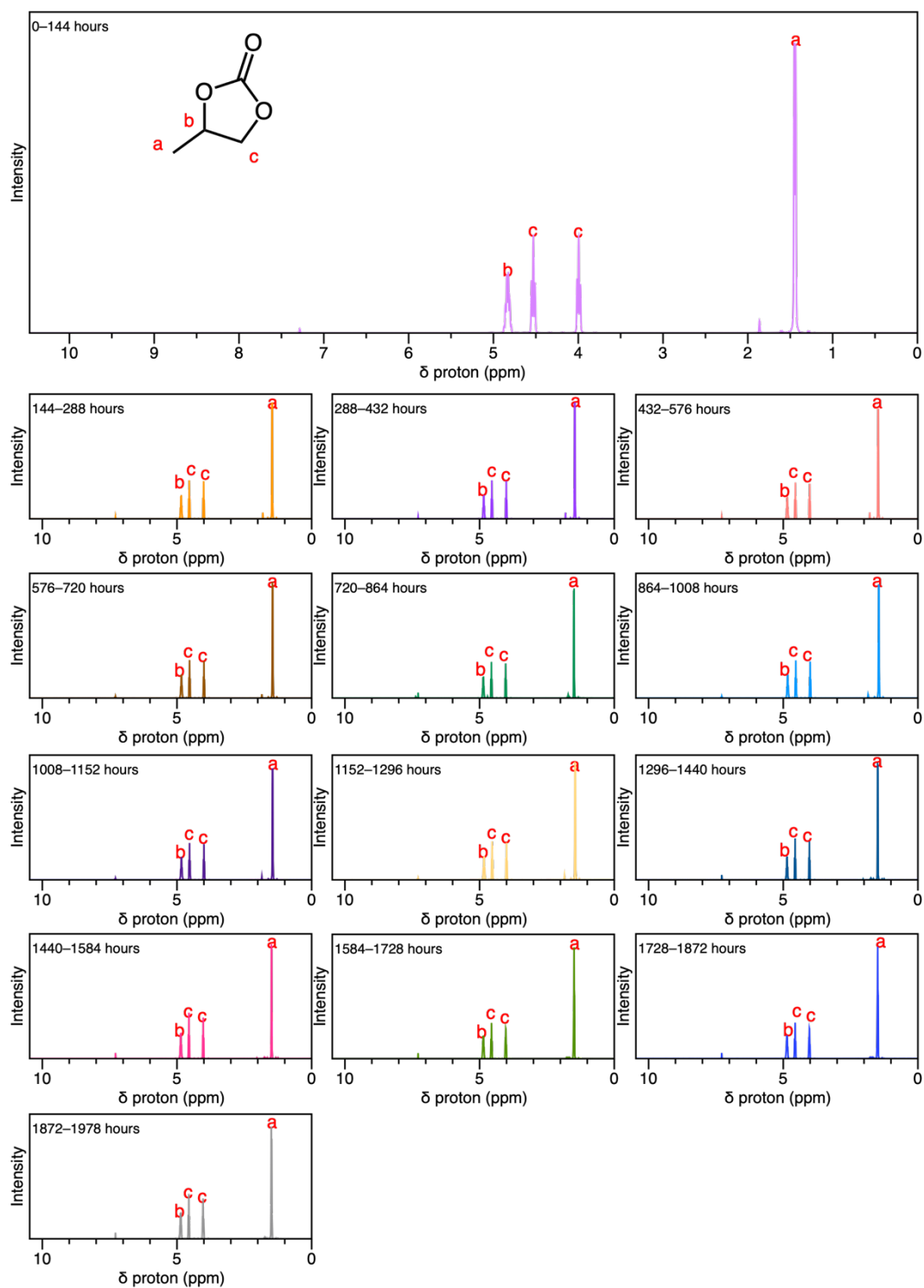


Fig. S17. ^1H -NMR spectra collected after the cycloaddition of CO_2 to propylene oxide from 0 to 1978 hours in continuous system at 50°C . Peaks for corresponding protons are marked in the spectrum.

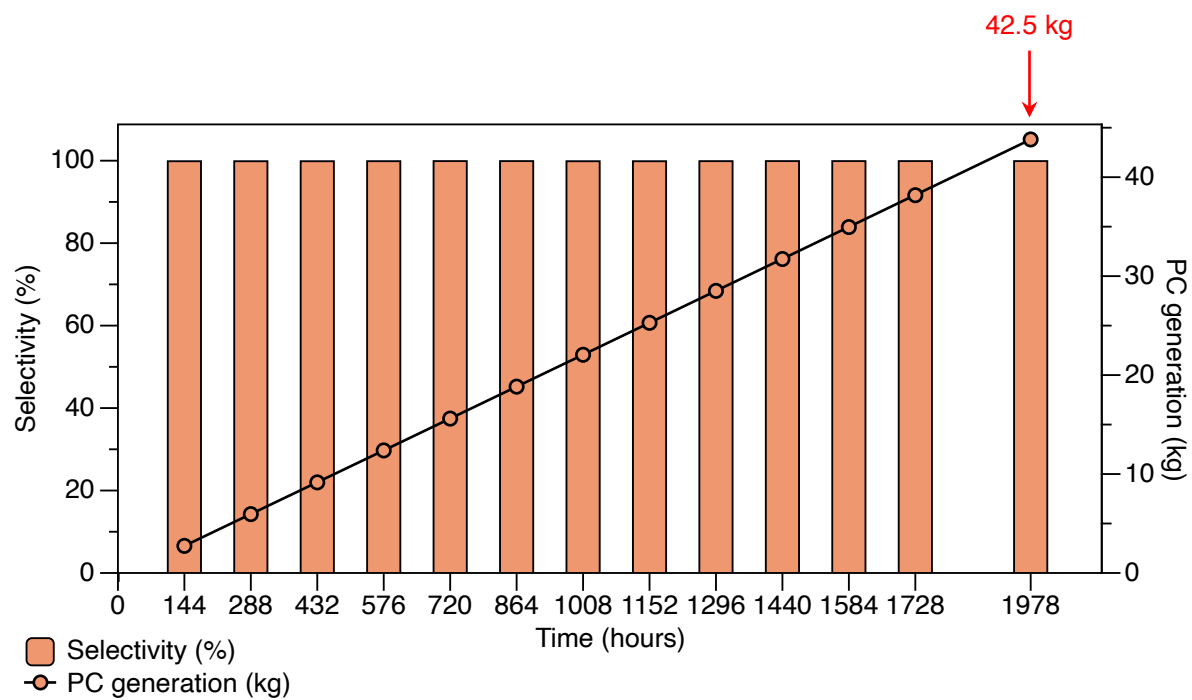
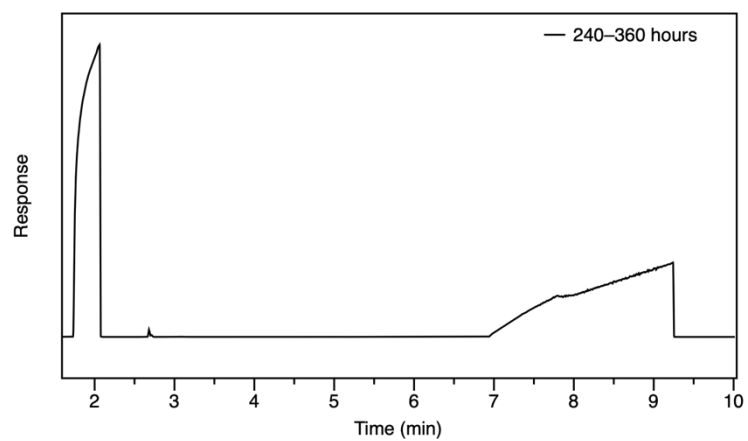
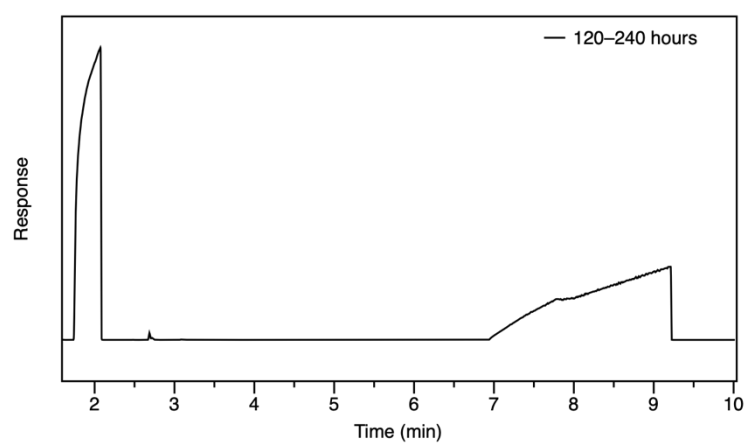
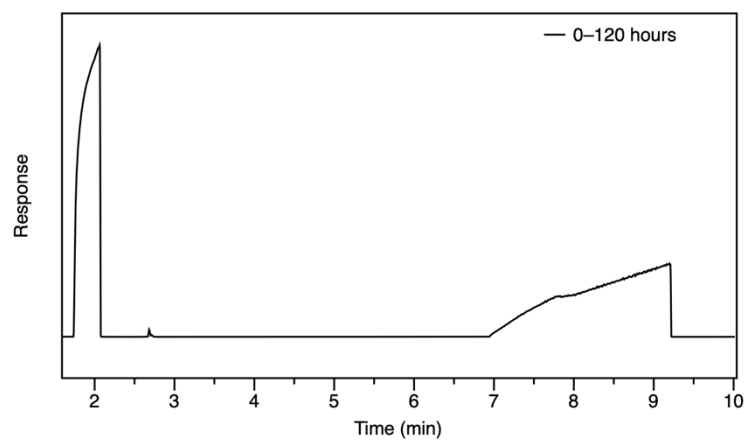
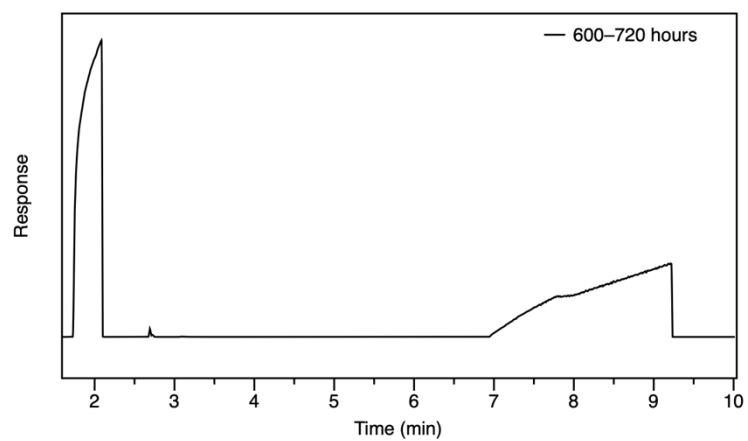
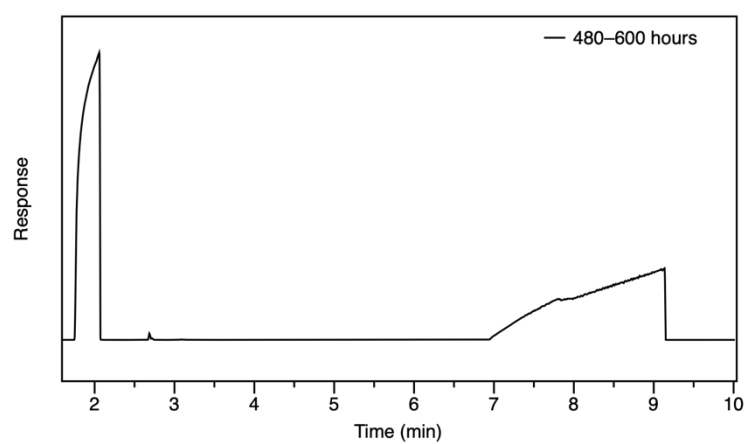
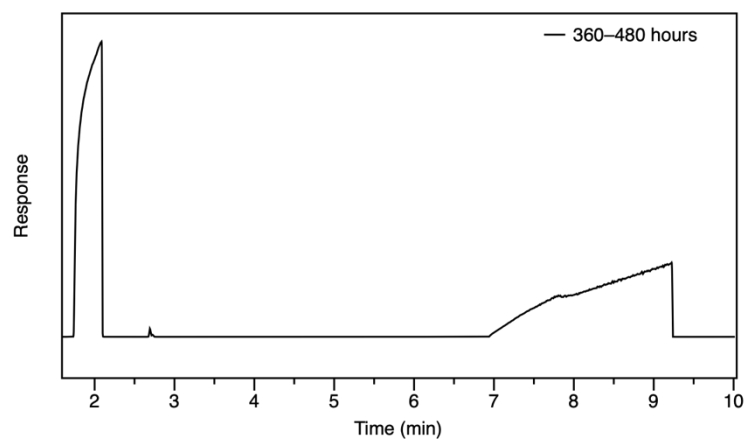
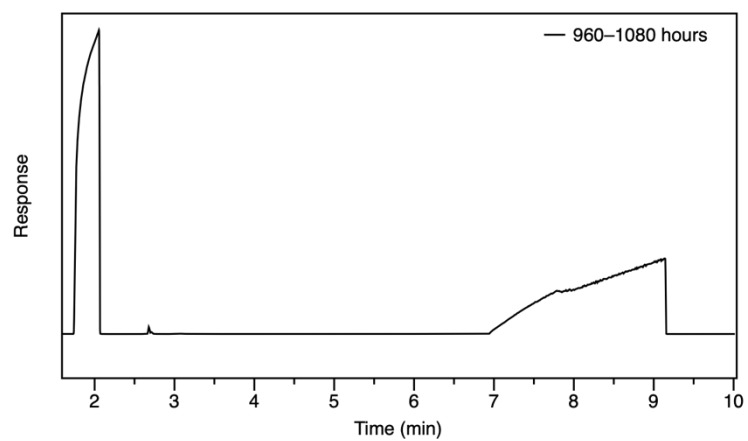
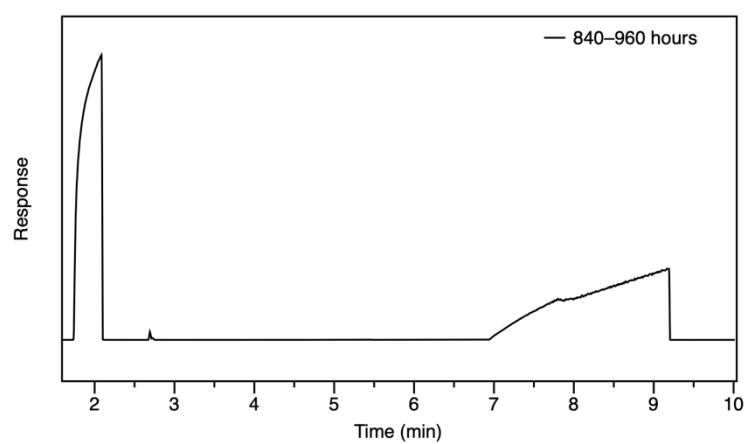
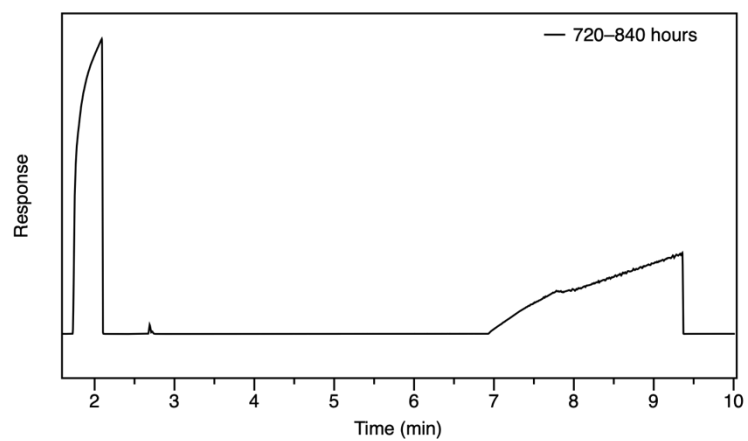
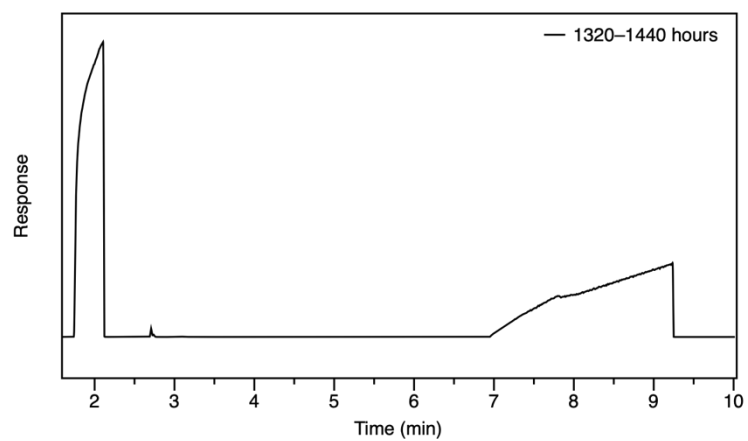
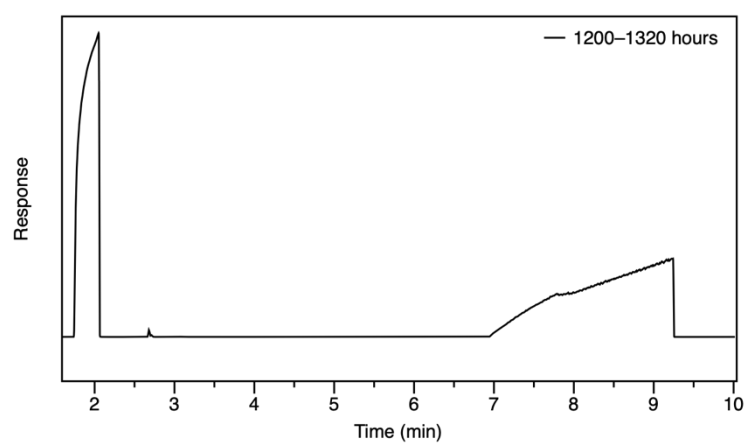
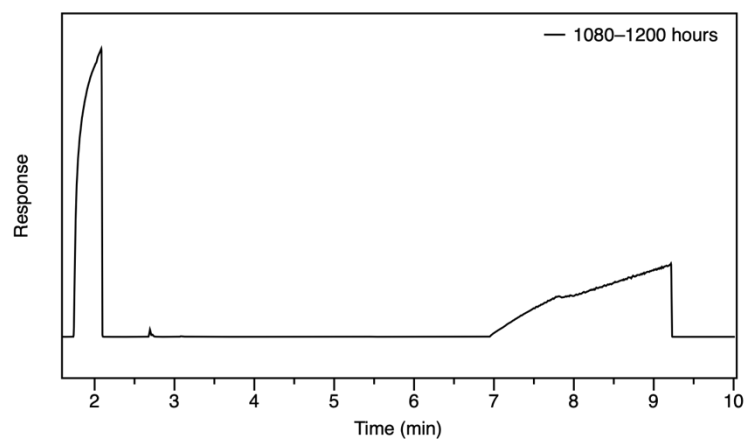


Fig. S18. Variations in selectivity and PC generation over time in a continuous reactor operating at 50°C.









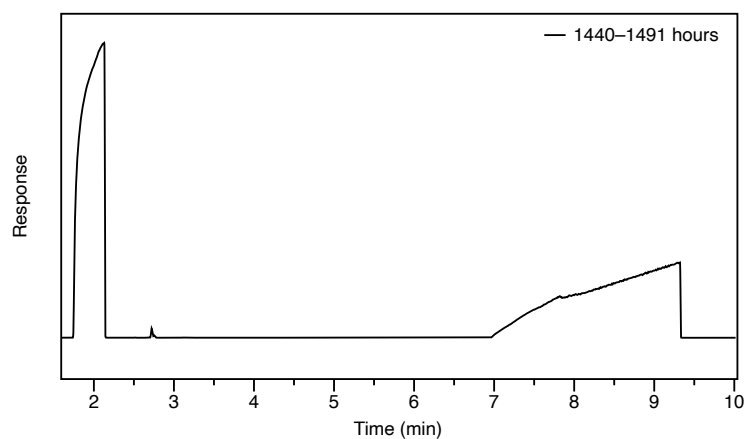


Fig. S19. GC data collected after the cycloaddition of CO₂ to propylene oxide from 0 to 1491 hours in continuous system at 70°C. Peak 2.05 and 9.09 min correspond to ethyl acetate and propylene carbonate.

Table S8. Numerical values for peak areas of products and by-products from 0 to 1491 hours in the continuous reactor at 70°C, along with calculated yield and selectivity.

Time (hours)	Area (uV*sec)		Yield (%)	Selectivity (%)
	By-product	Product		
0–120	214.8	164710.4	87.35	99.87
120–240	239.8	177594	98.11	99.87
240–360	197	151318.3	98.19	99.87
360–480	270.8	176464.6	98.75	99.85
480–600	209.4	169509	98.88	99.88
600–720	210.9	156309.7	98.88	99.87
720–840	238.4	196681.6	98.88	99.88
840–960	224.4	157809.6	98.76	99.86
960–1080	224.4	157809.6	98.76	99.86
1080–1200	54.24	150296.3	98.86	99.96
1200–1320	78.08	160394.1	98.84	99.95
1320–1440	67.59	165392	98.85	99.96
1440–1491	58.49	163091	42.53	99.96

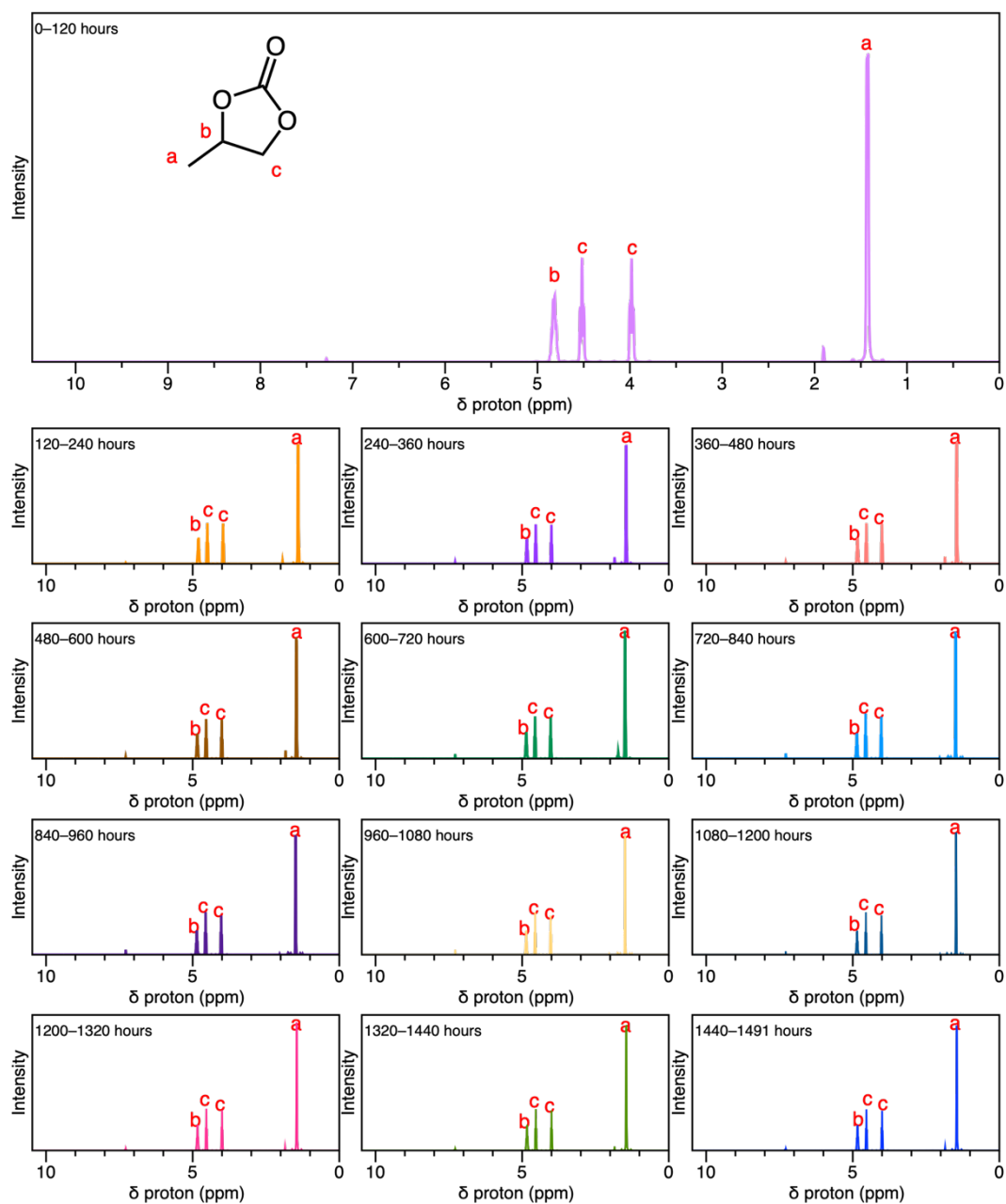


Fig. S20. ^1H -NMR spectra collected after the cycloaddition of CO_2 to propylene oxide 0 to 1491 hours in continuous system at 70°C . Peaks for corresponding protons are marked in the spectrum.

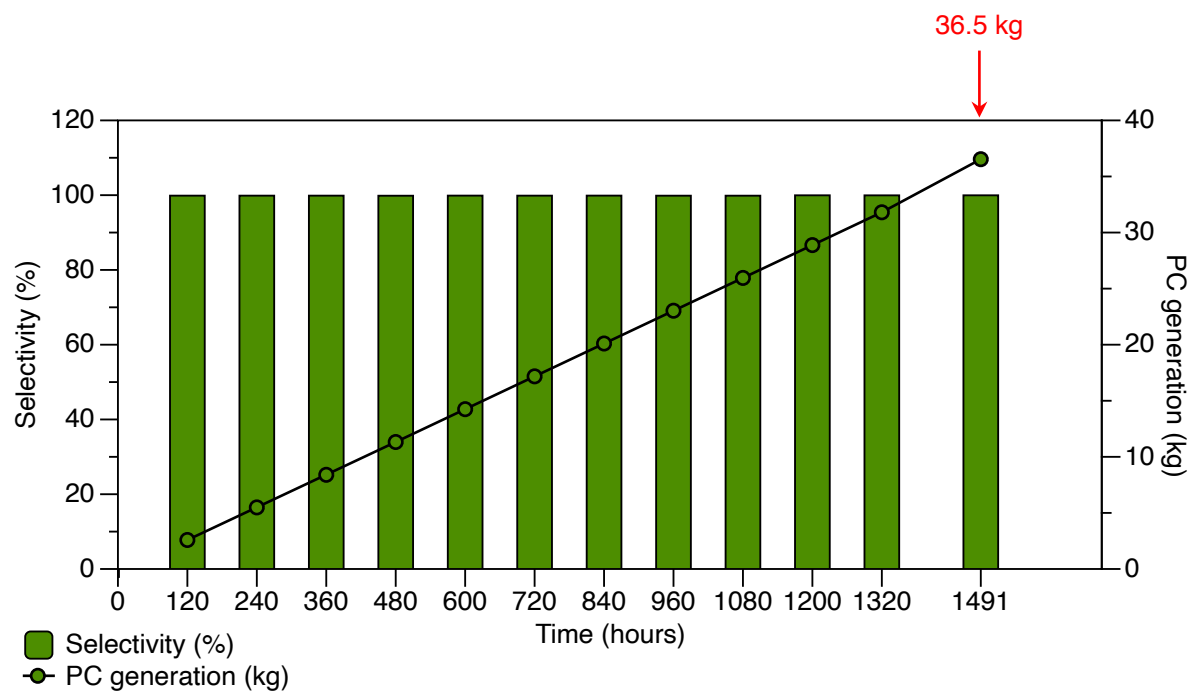
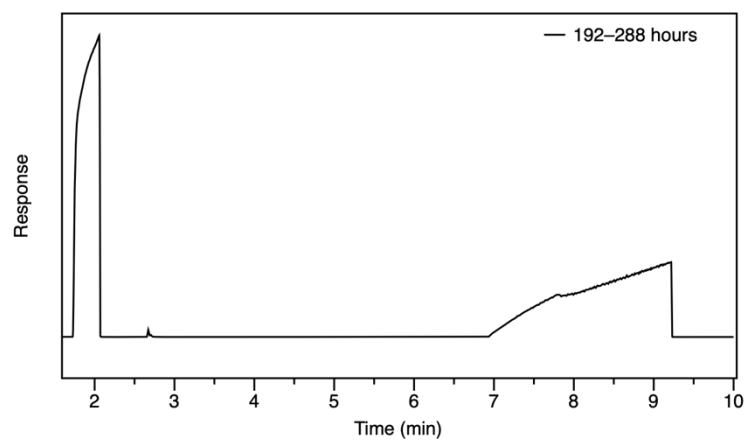
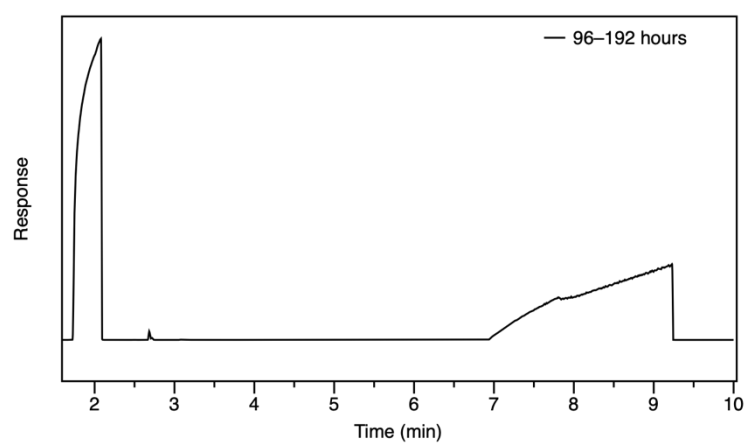
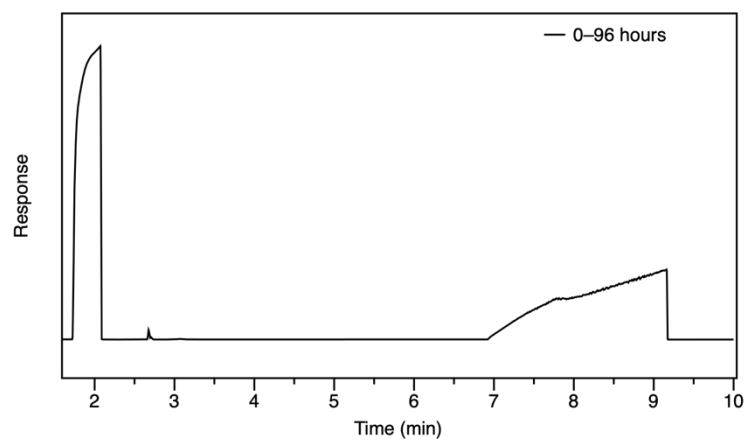
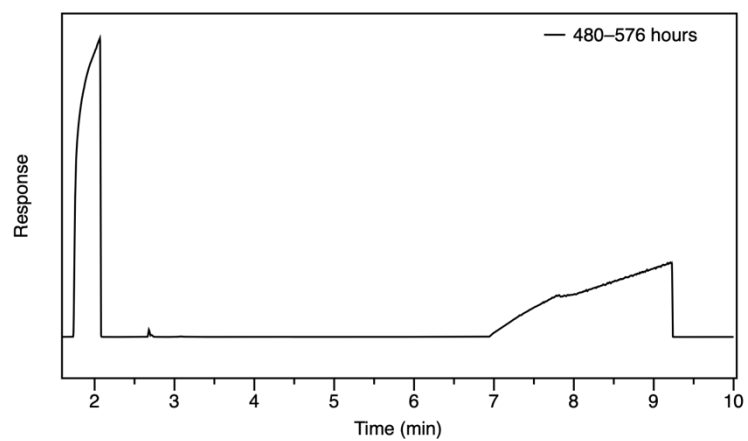
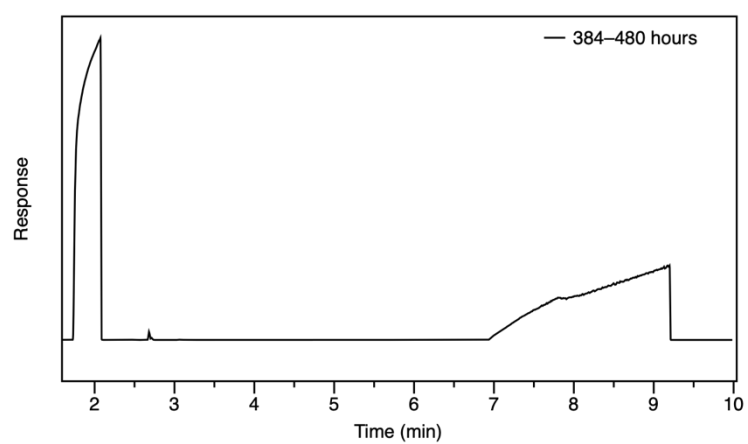
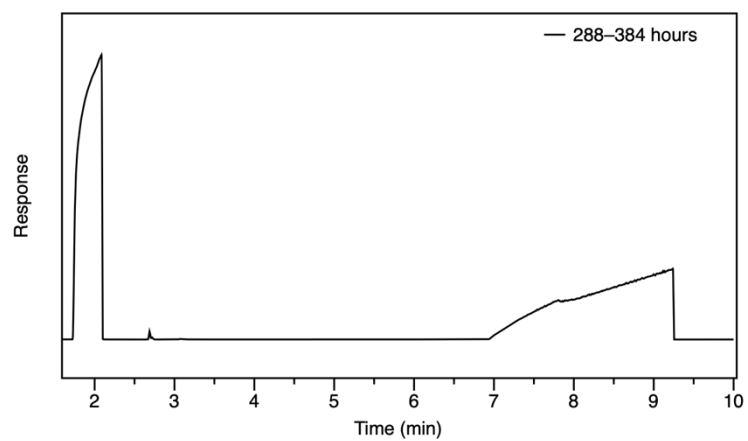
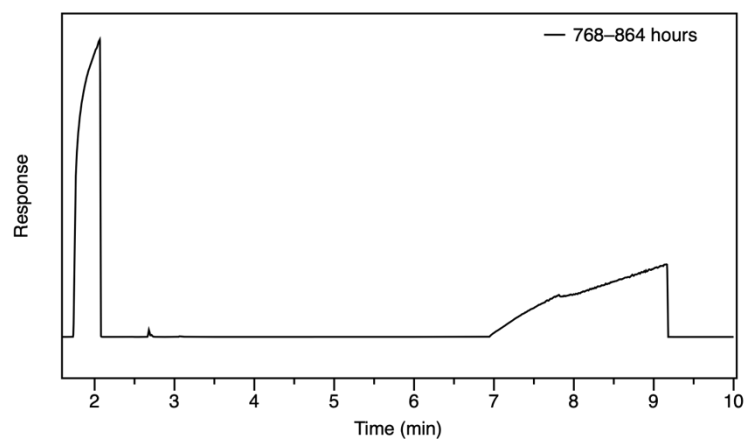
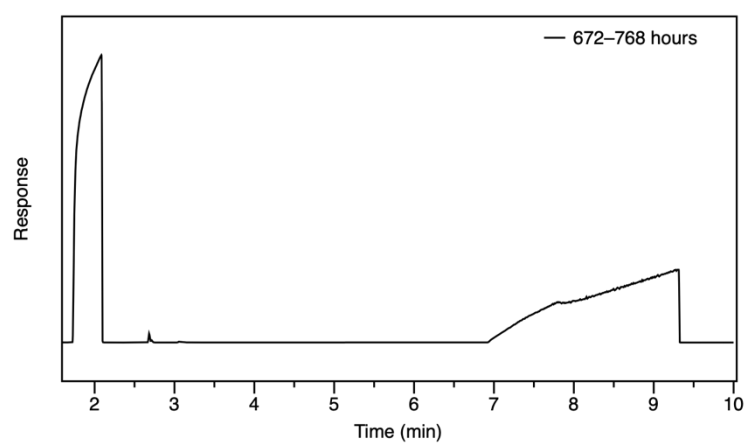
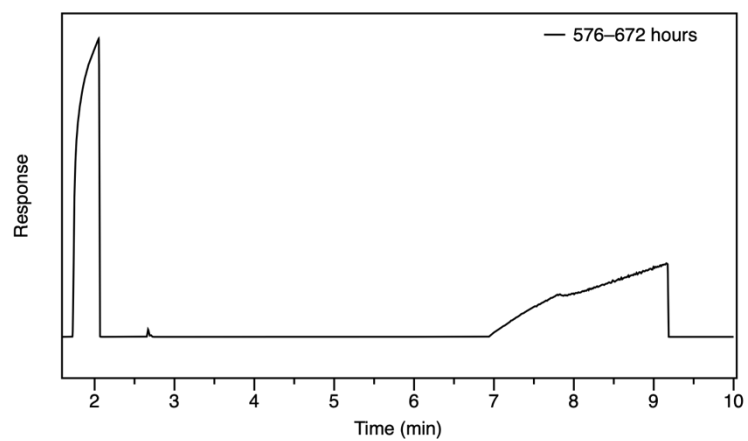


Fig. S21. Variations in selectivity and PC generation over time in a continuous reactor operating at 70°C.







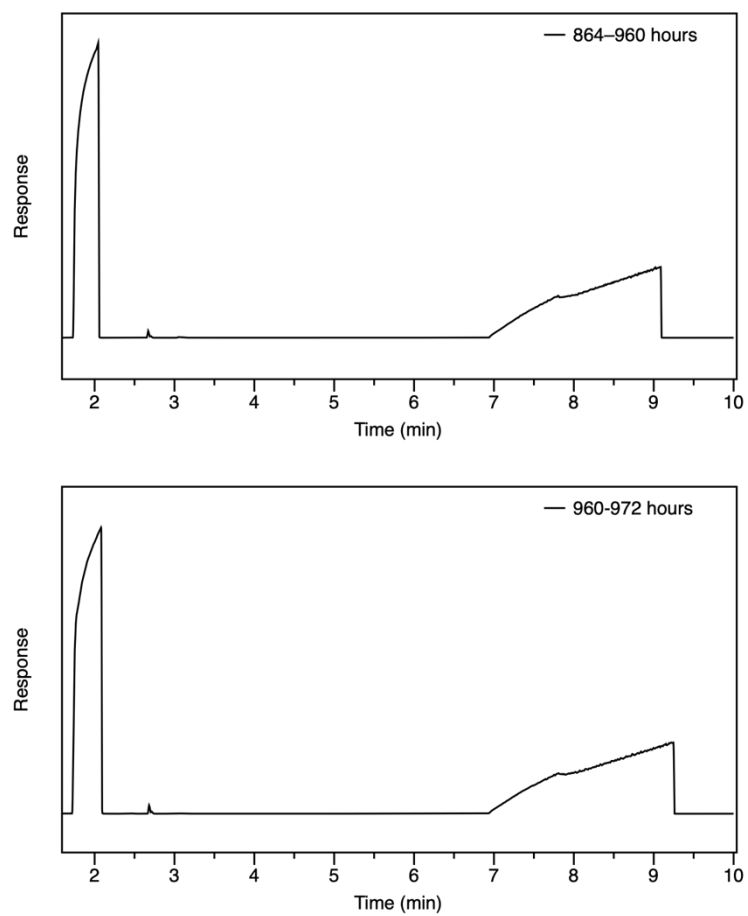


Fig. S22. GC data collected after the cycloaddition of CO₂ to propylene oxide from 0 to 972 hours in continuous system at 100°C. Peak 2.05 and 9.09 min correspond to ethyl acetate and propylene carbonate.

Table S9. Numerical values for peak areas of products and by-products from 0 to 972 hours in the continuous reactor at 100°C, along with calculated yield and selectivity.

Time (hours)	Area (uV*sec)		Yield (%)	Selectivity (%)
	By-product	Product		
0–96	155.2	191727.2	75.15	99.92
96–192	201.3	161567.7	98.13	99.88
192–288	201.3	161567.7	98.13	99.88
288–384	143.6	170293.4	98.12	99.92
384–480	159.6	164320.9	98.11	99.90
480–576	154.2	168093.4	98.11	99.91
576–672	158.6	180293.9	98.11	99.91
672–768	162.1	183041.1	98.14	99.91
768–864	200.3	175493.6	98.11	99.89
864–960	197.1	173921.8	98.10	99.89
960–972	145.5	172934.2	12.24	99.92

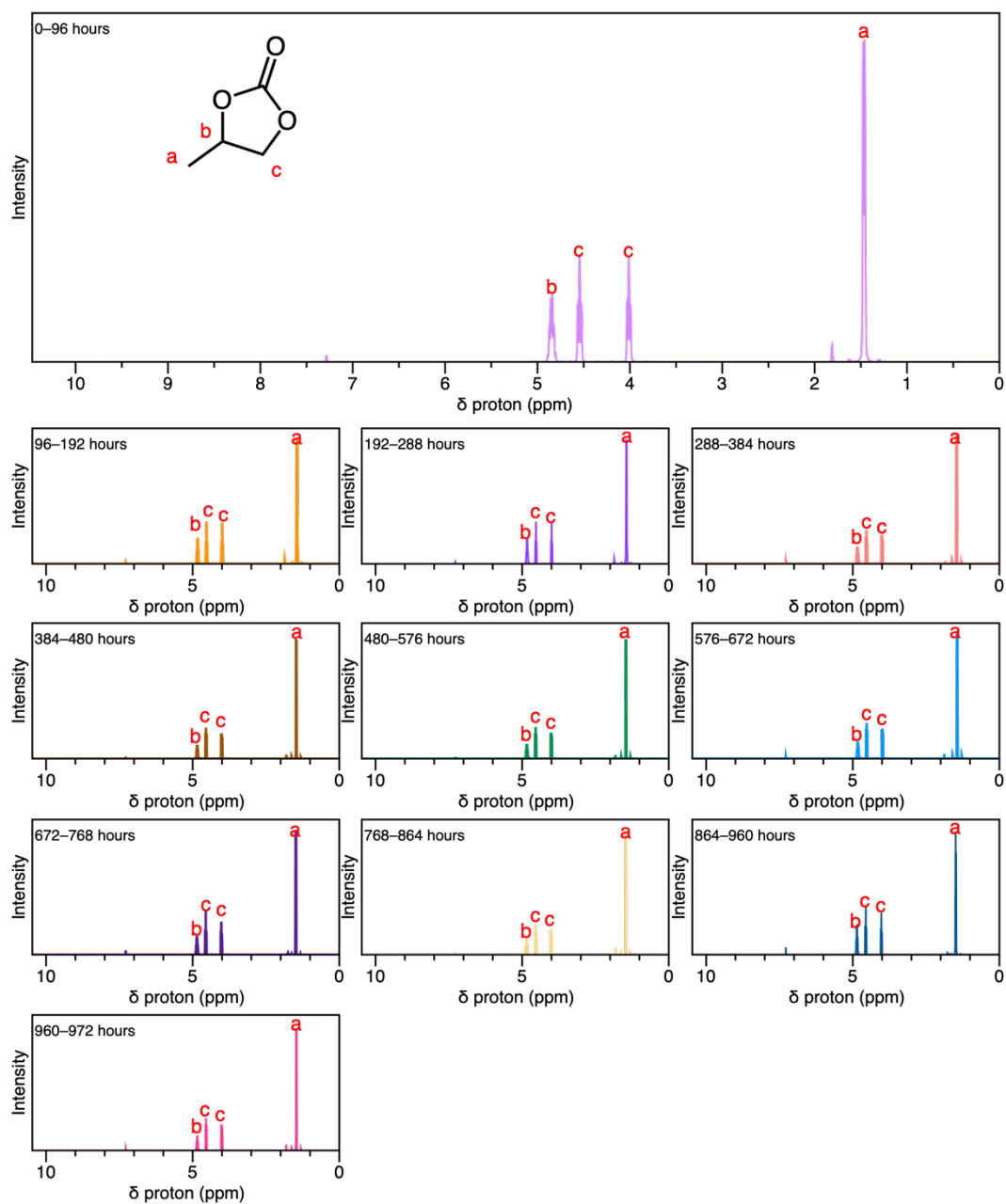


Fig. S23. ^1H -NMR spectra collected after the cycloaddition of CO_2 to propylene oxide from 0 to 972 hours in continuous system at 100°C . Peaks for corresponding protons are marked in the spectrum.

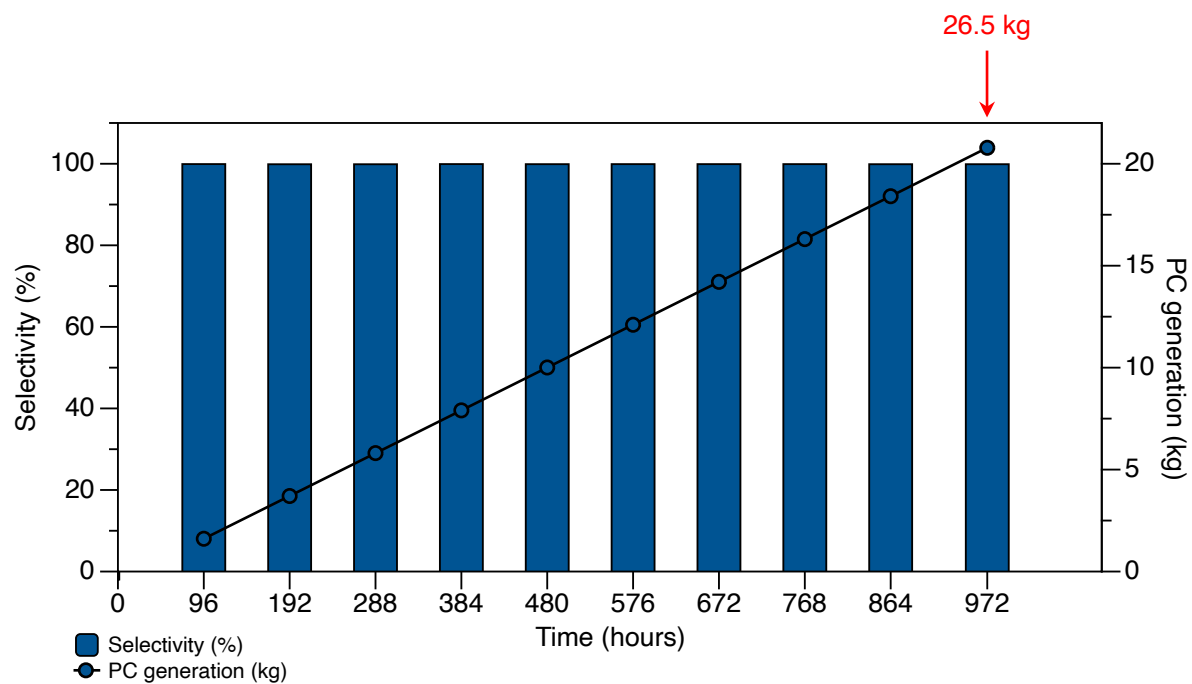


Fig. S24. Variations in selectivity and and PC generation over time in a continuous reactor operating at 100°C.

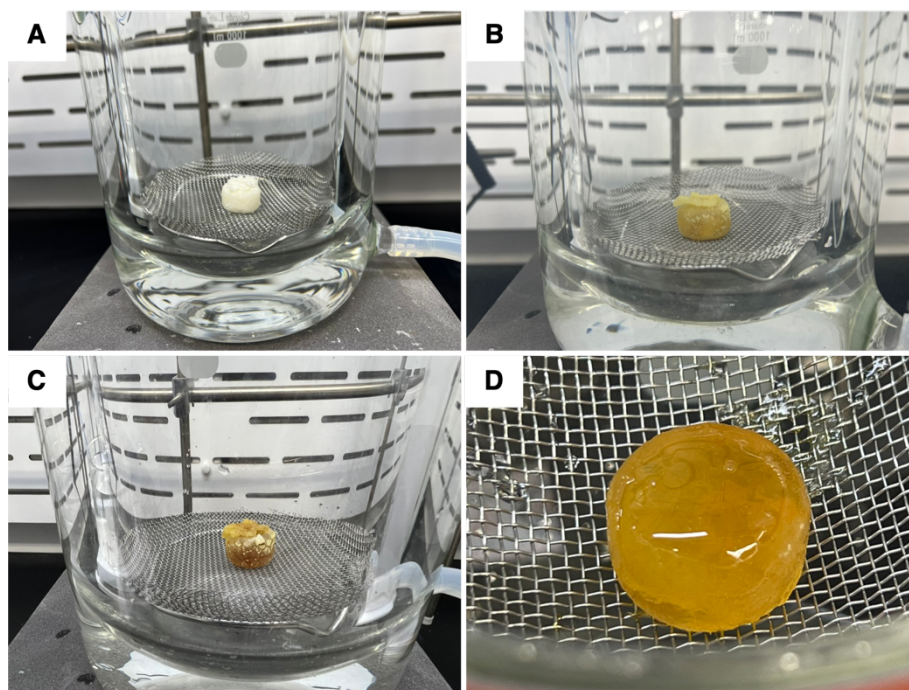


Fig. S25. Aerogel change in continuous reaction at 70°C. (A) The original state before the reaction. (B) Aerogel state after 360 hours of reaction. (C) Aerogel state after 960 hours of reaction. (D) Aerogel state after reaction ends.

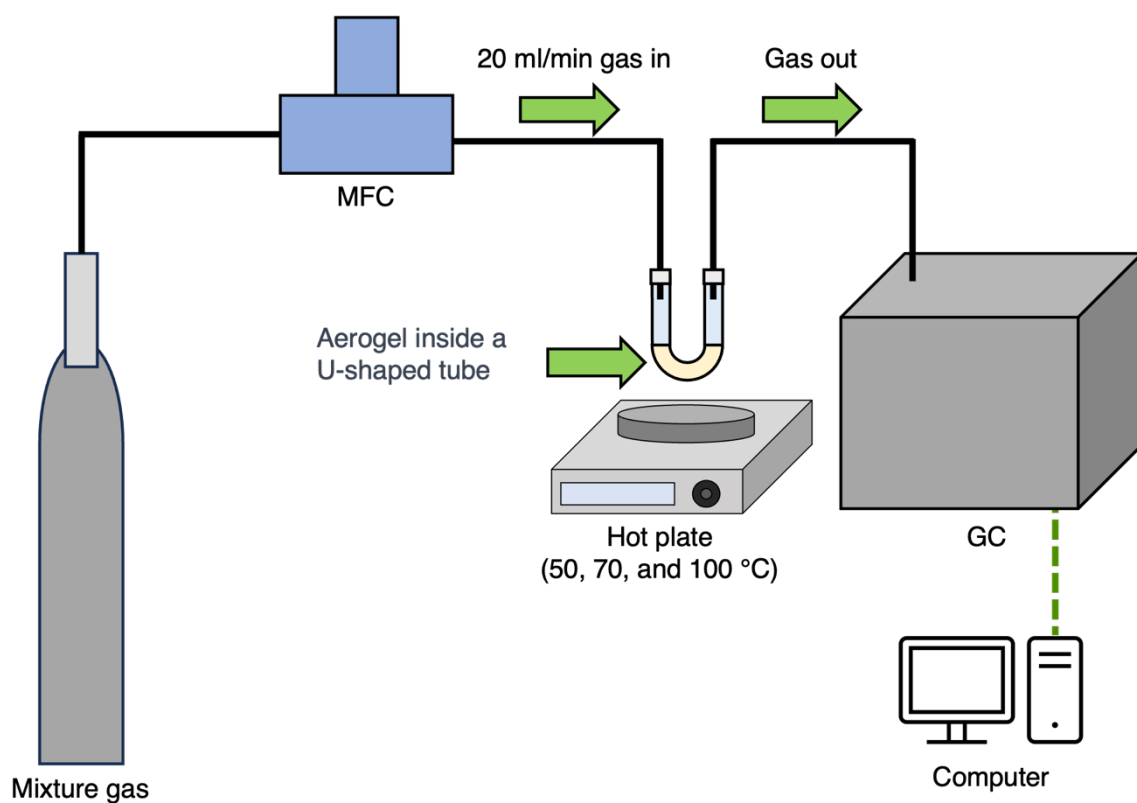
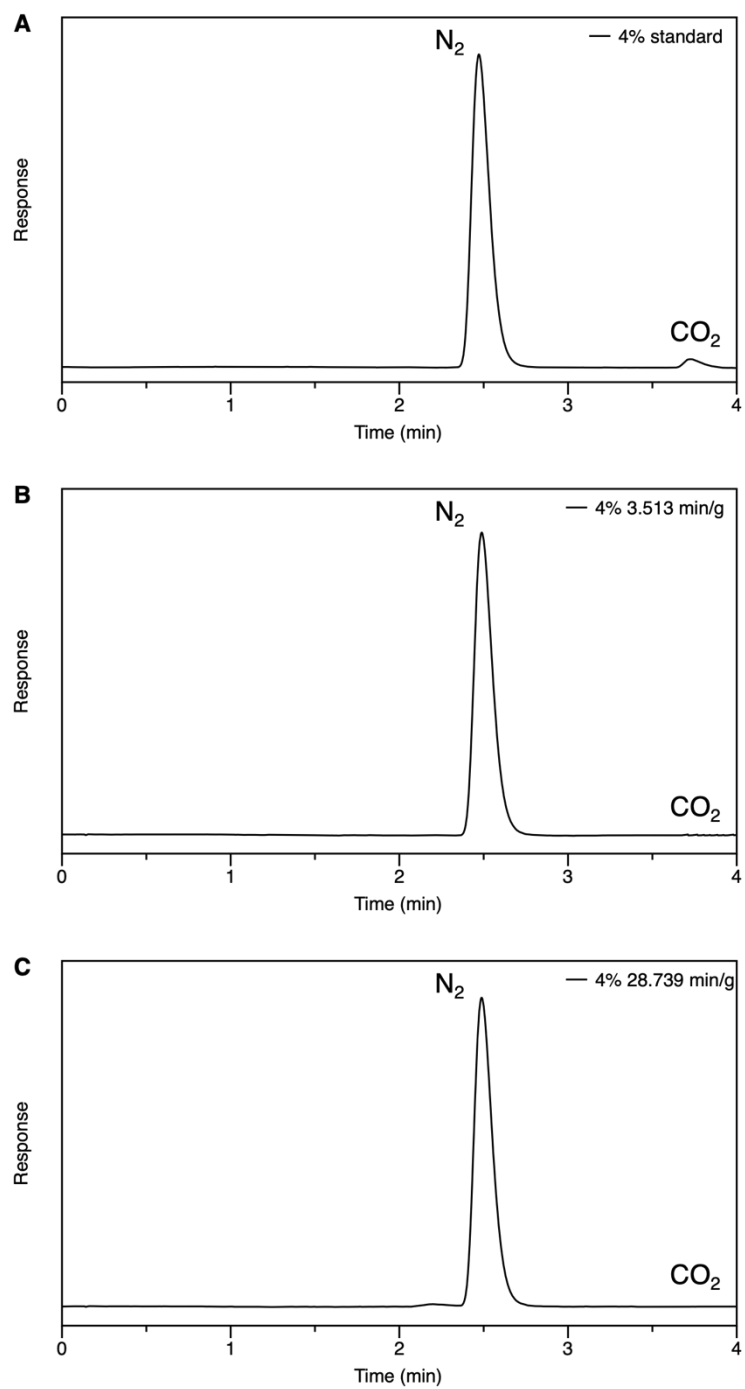


Fig. S26. Set-up schematic diagram for breakthrough measurement to analyze selectivity.



Fig. S27. Photographs of Set-up for breakthrough measurement to analyze selectivity.



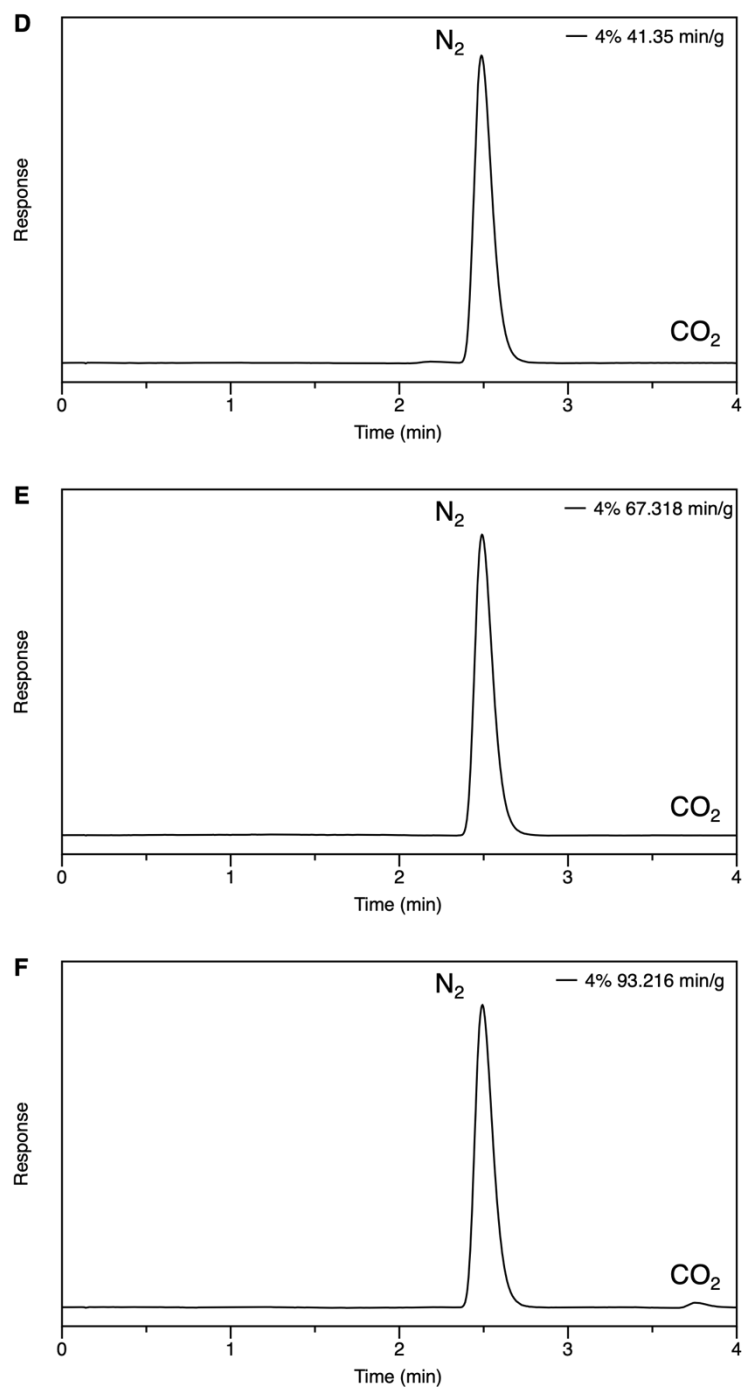
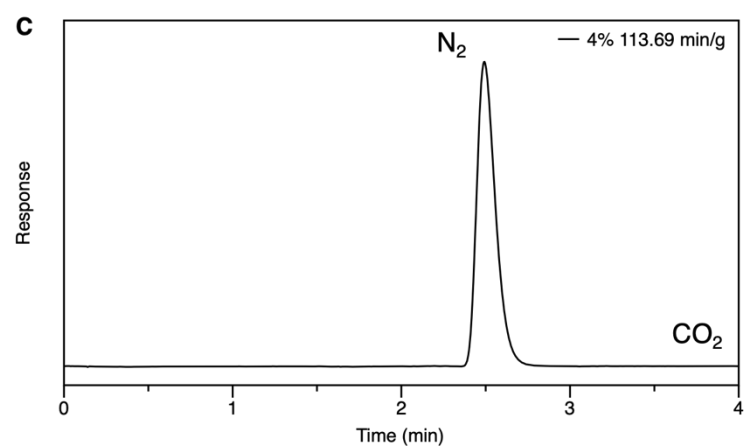
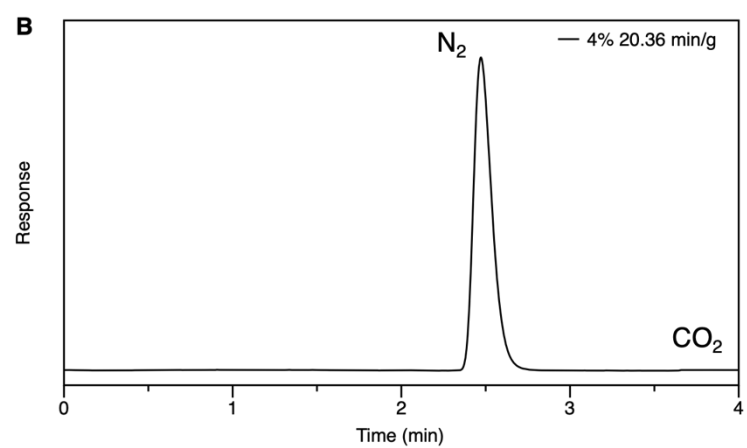
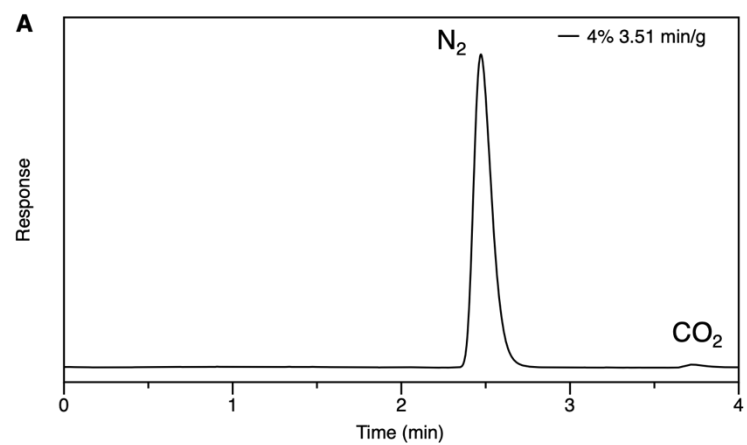


Fig. S28. GC data analyzing the outlet gas after adsorption per gram of aerogel support at 4/96 (CO_2/N_2) per min at 50°C. (**A**) the GC standard data for the mixed gas before adsorption, and (**B to F**) the outlet gas data per minute after adsorption.



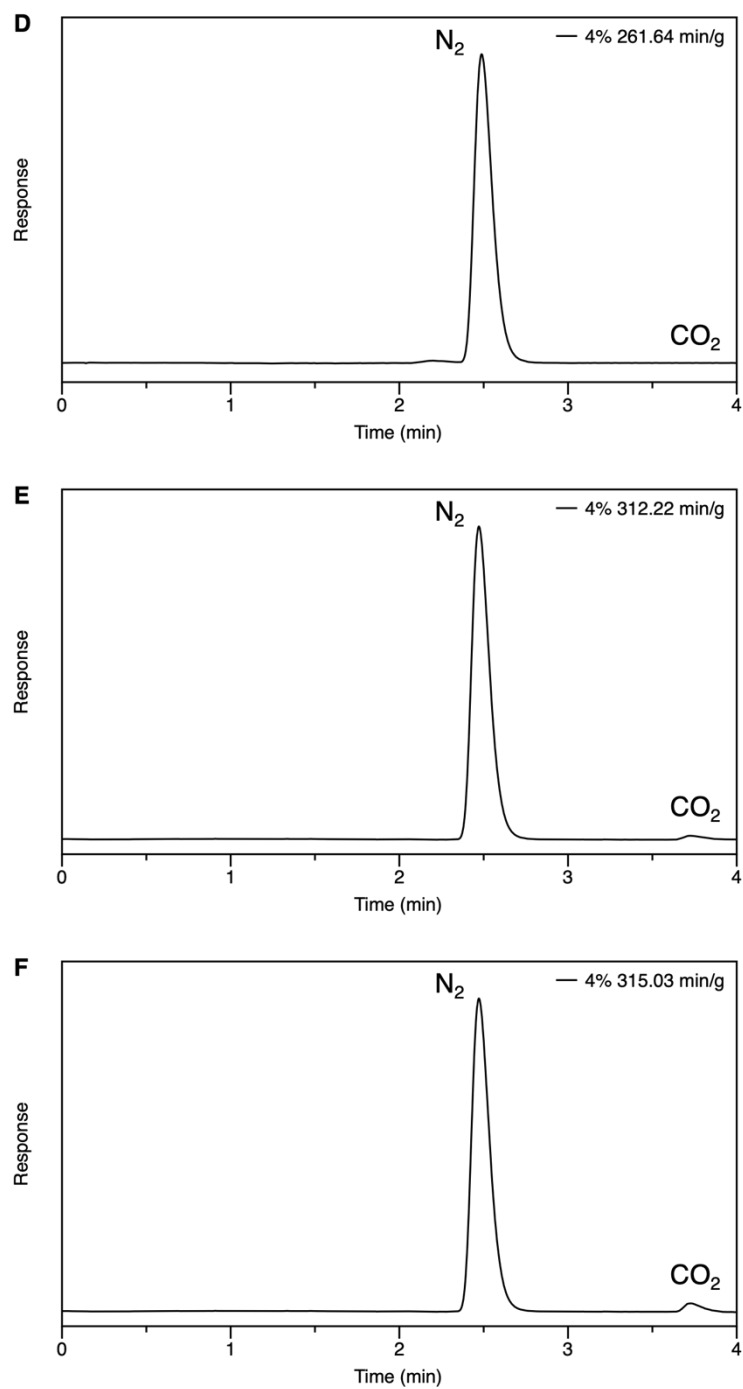
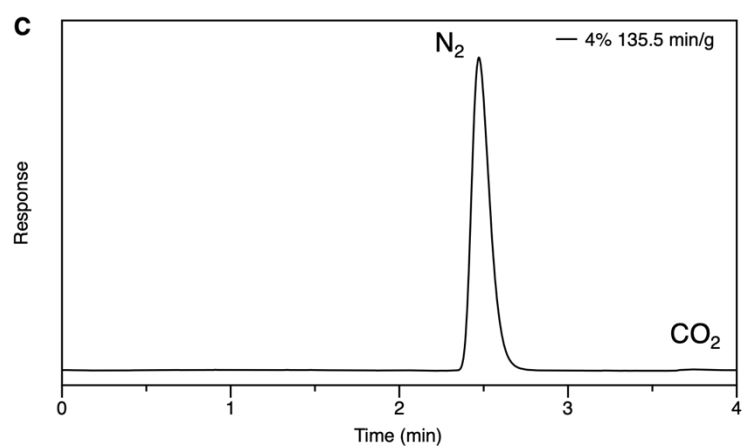
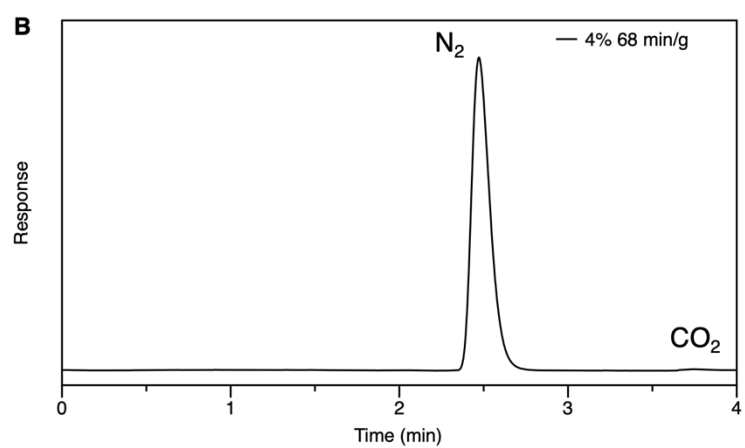
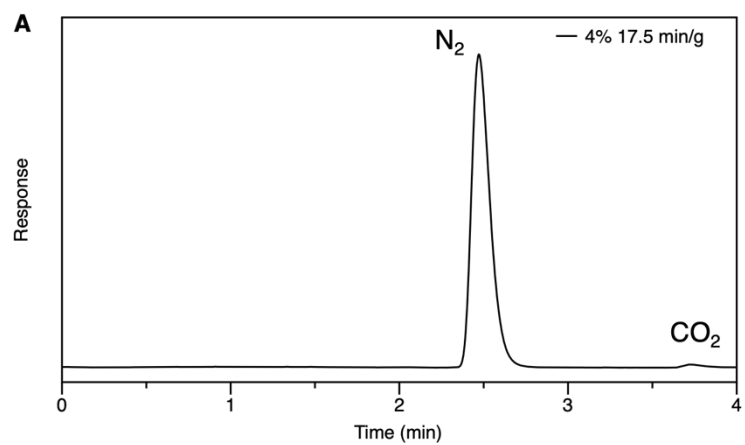


Fig. S29. GC data analyzing the outlet gas after adsorption per gram of aerogel support at 4/96 (CO_2/N_2) per min at 70°C. (A to F) the outlet gas data per minute after adsorption.



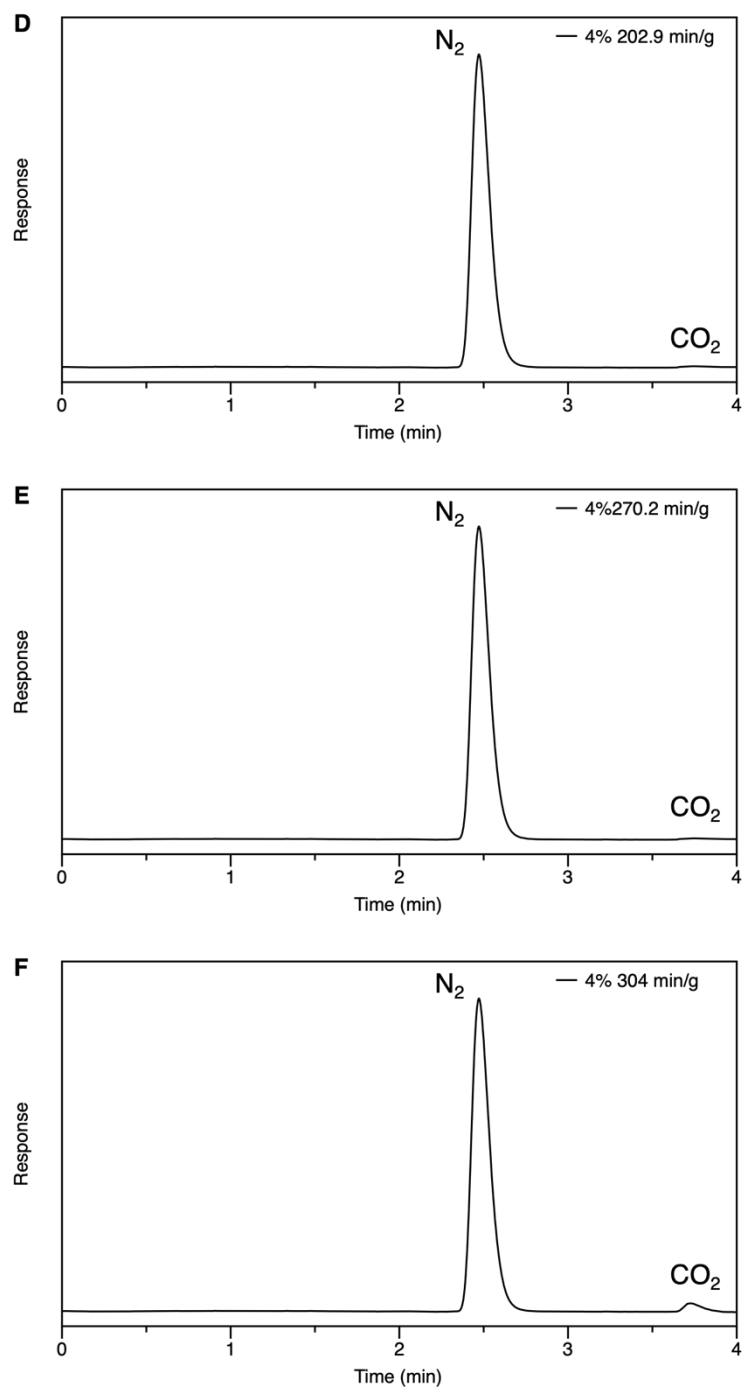
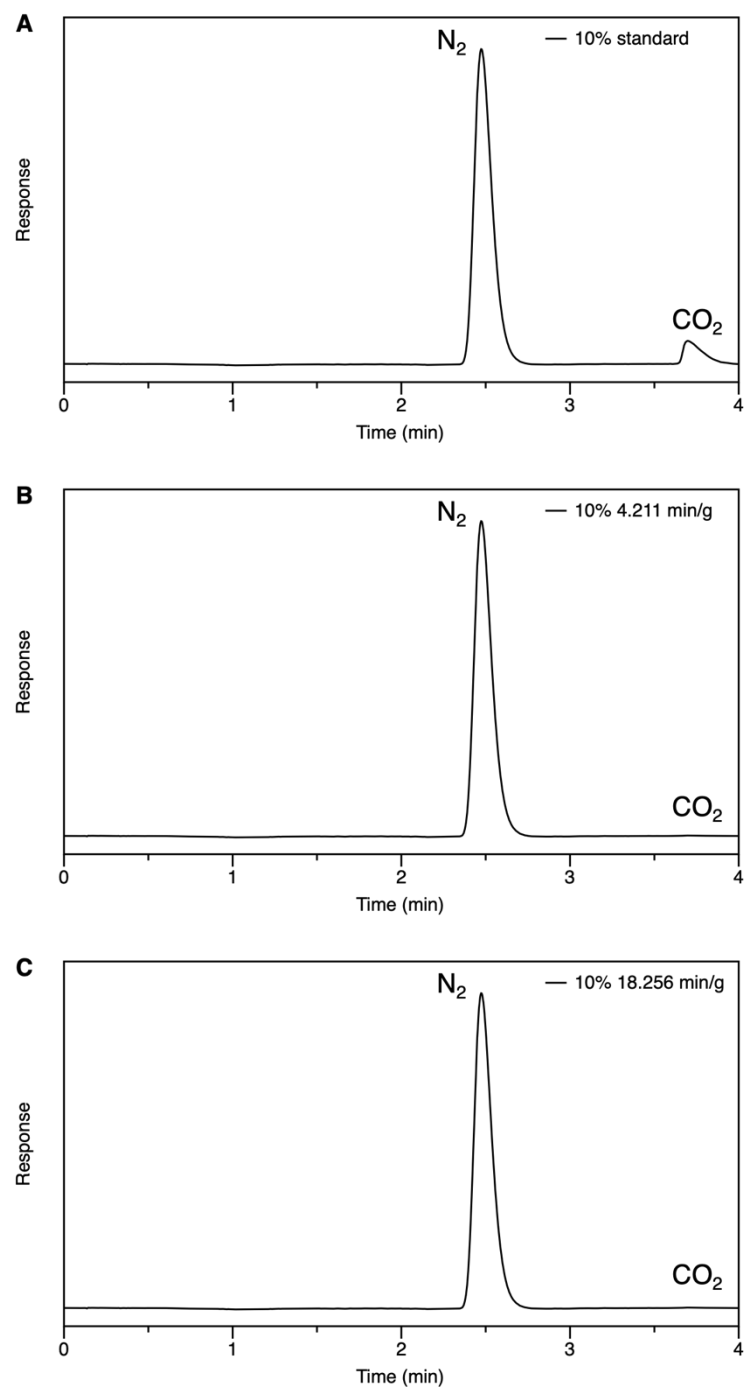


Fig. S30. GC data analyzing the outlet gas after adsorption per gram of aerogel support at 4/96 (CO_2/N_2) per min at 100°C. (A to F) the outlet gas data per minute after adsorption.



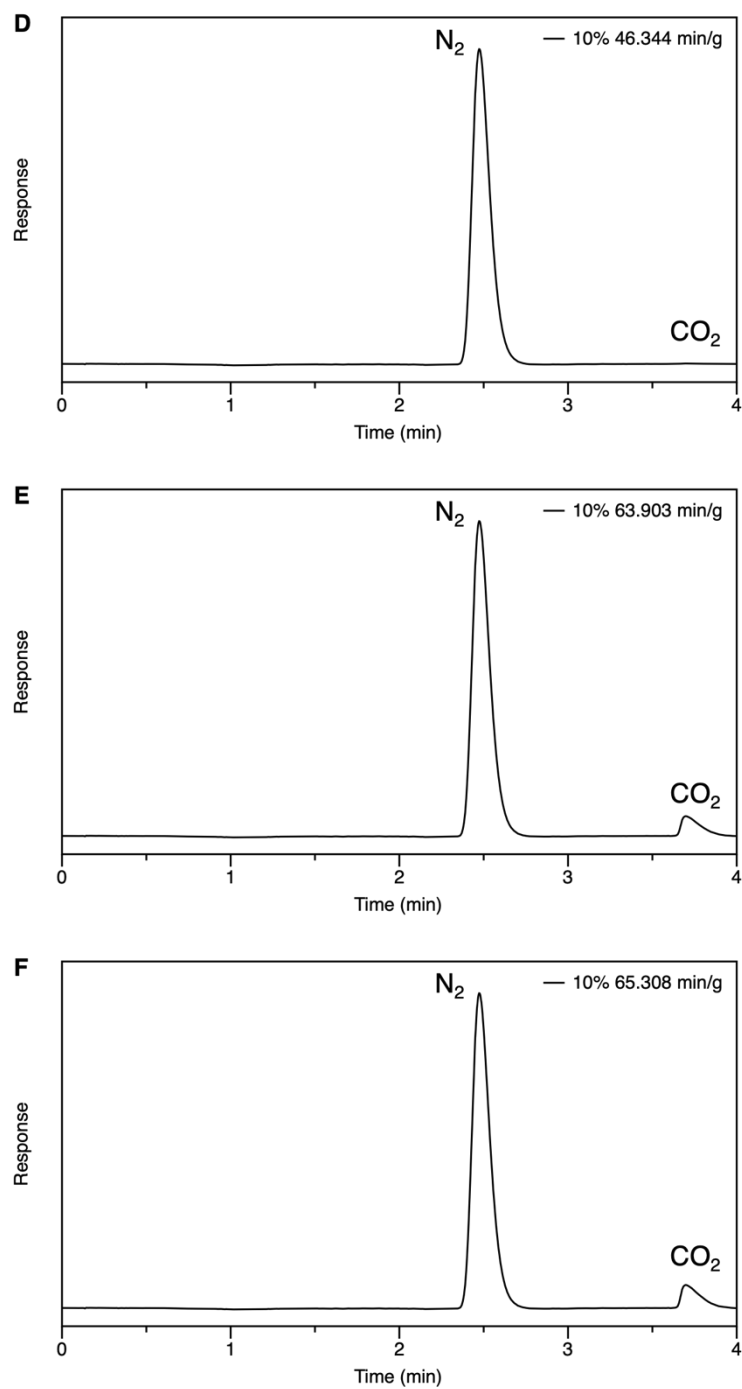
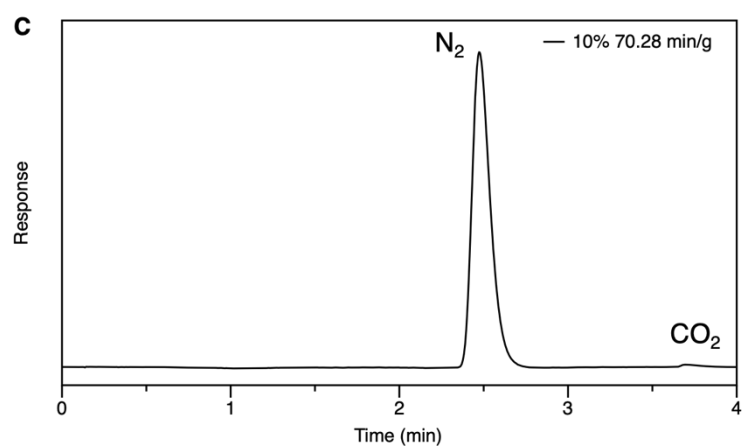
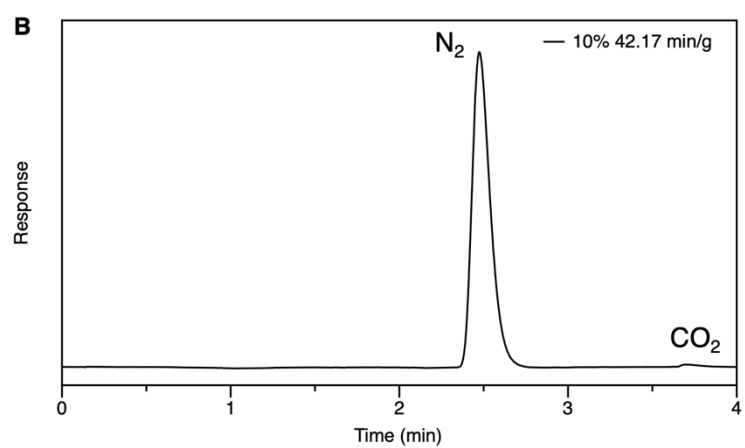
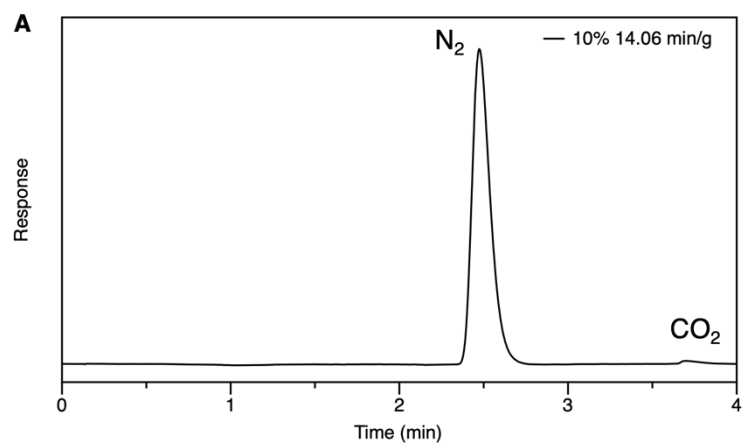


Fig. S31. GC data analyzing the outlet gas after adsorption per gram of aerogel support at 10/90 (CO_2/N_2) per min at 50°C. (A) the GC standard data for the mixed gas before adsorption, and (B to F) the outlet gas data per minute after adsorption.



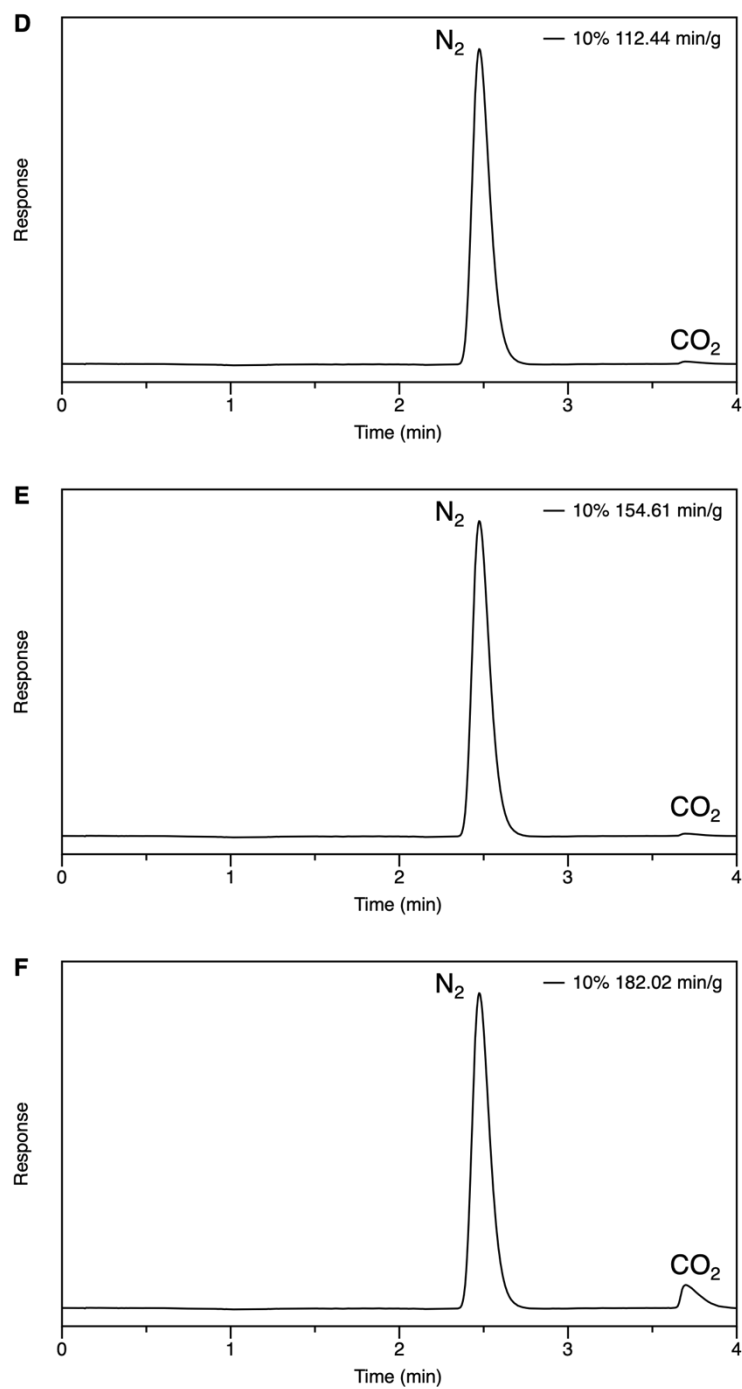
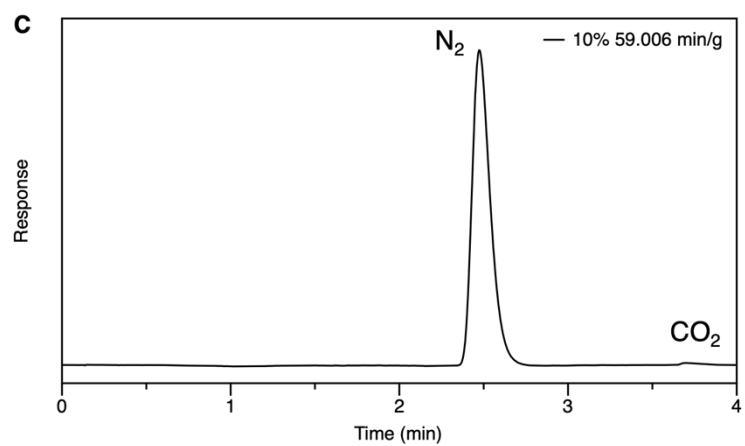
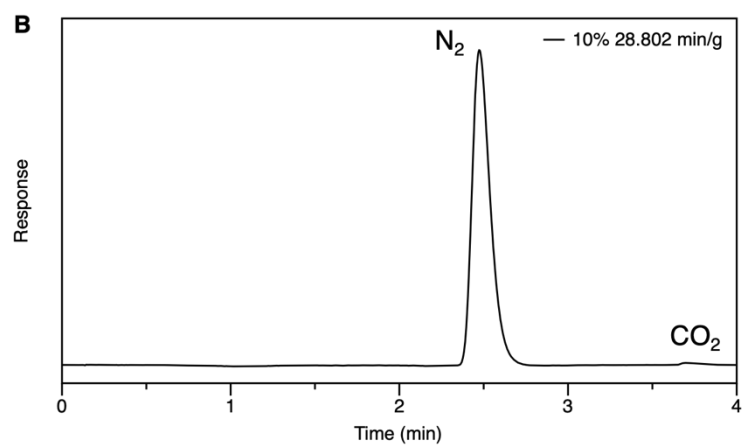
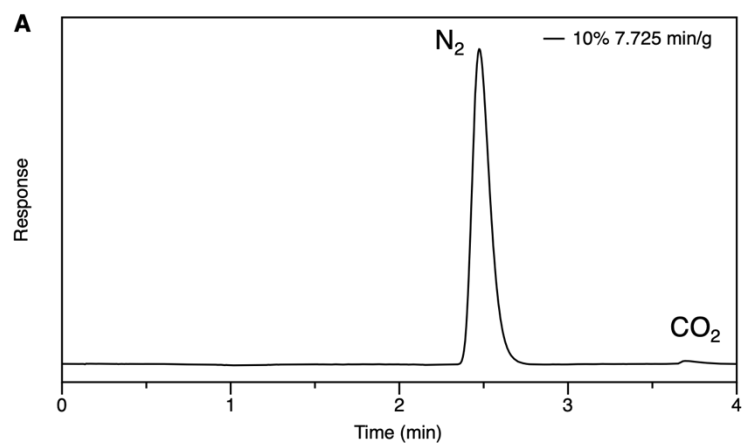


Fig. S32. GC data analyzing the outlet gas after adsorption per gram of aerogel support at 10/90 (CO_2/N_2) per min at 70°C. (A to F) the outlet gas data per minute after adsorption.



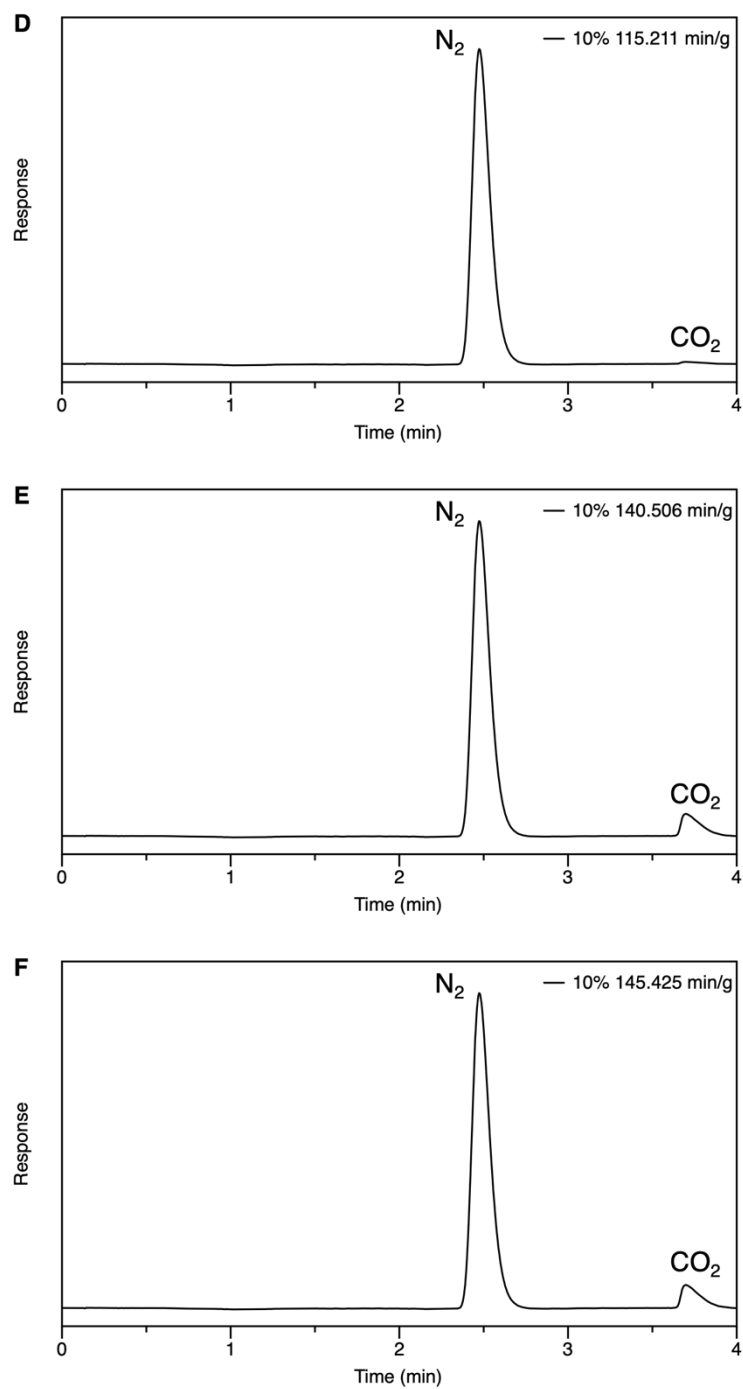
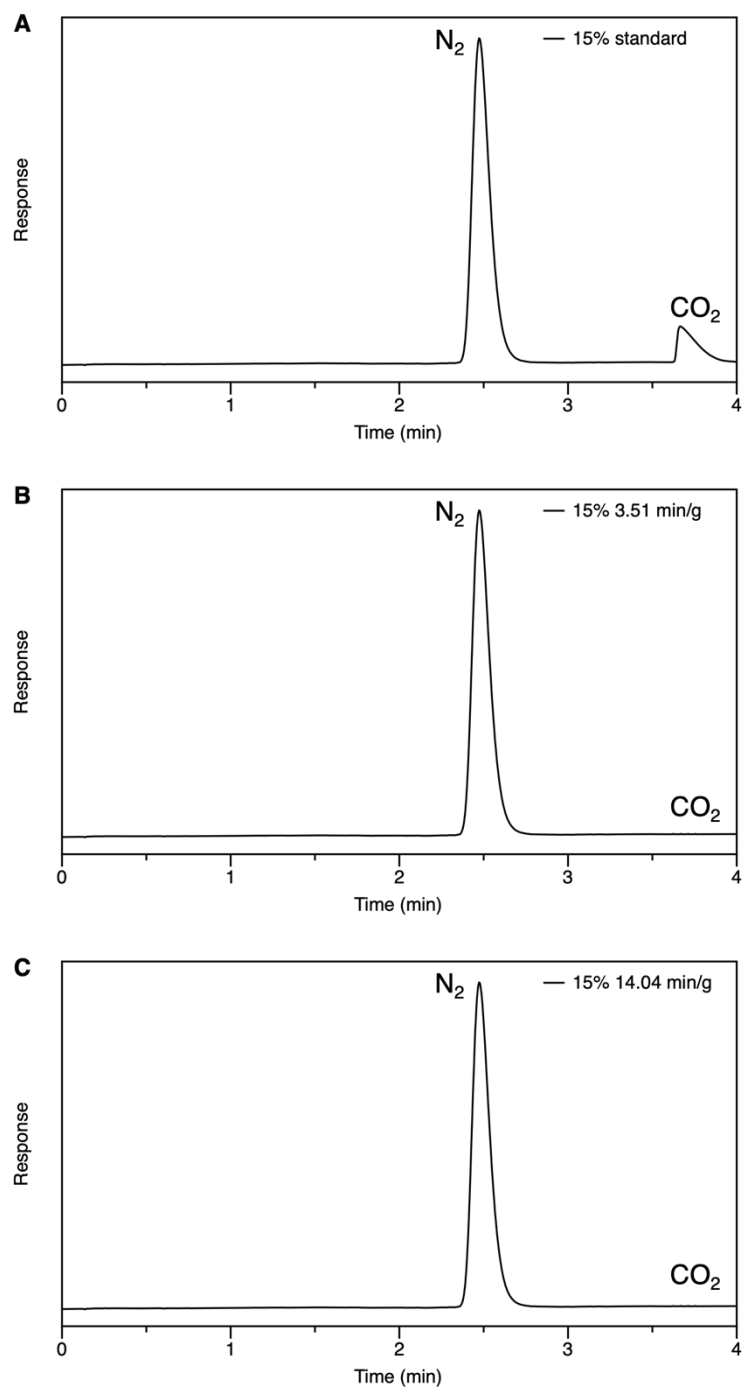


Fig. S33. GC data analyzing the outlet gas after adsorption per gram of aerogel support at 10/90 (CO_2/N_2) per min at 100°C. (A to F) the outlet gas data per minute after adsorption.



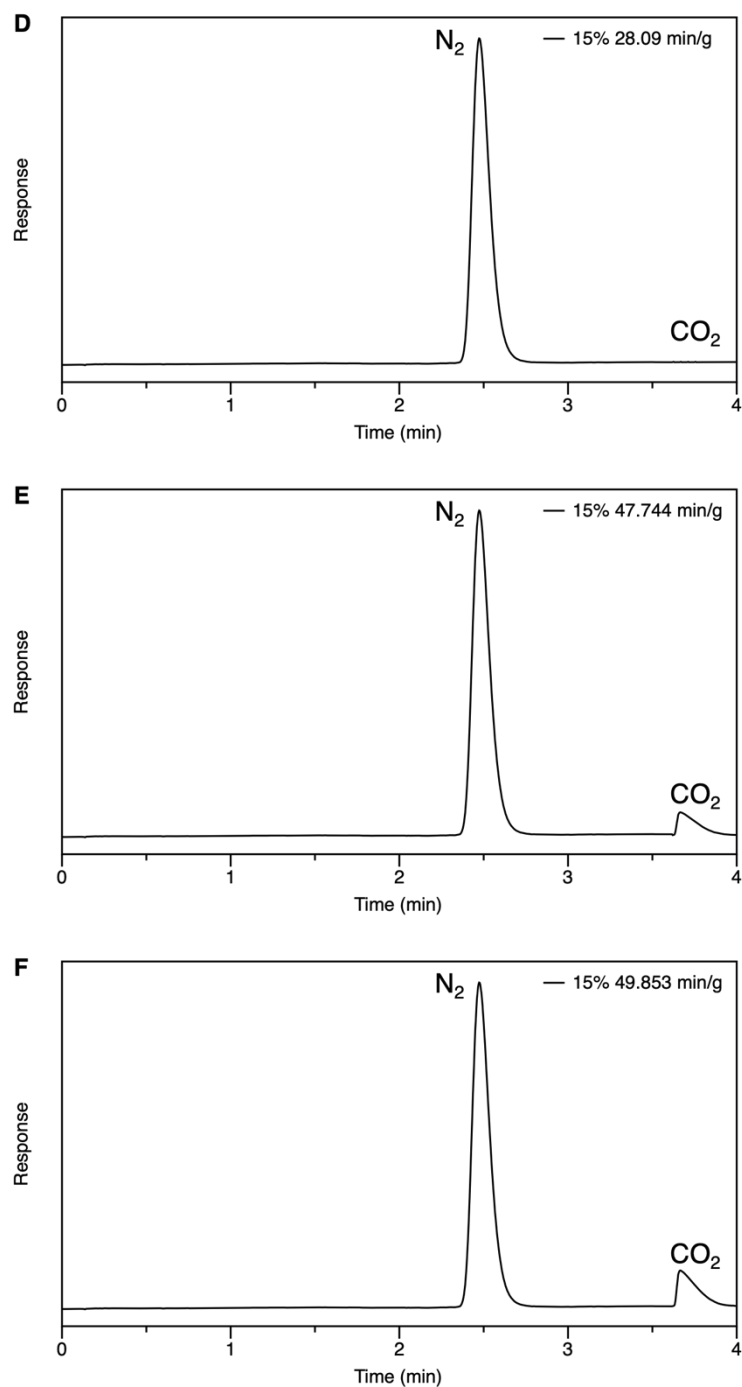
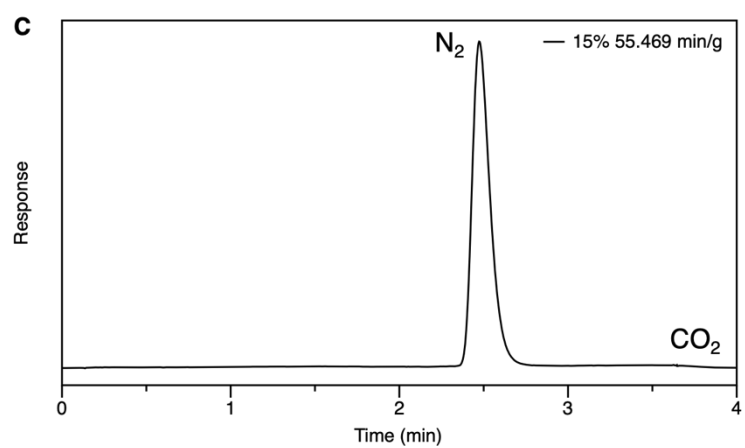
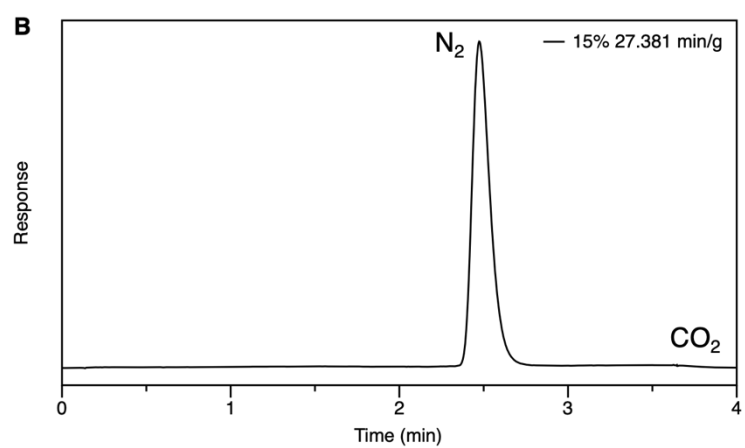
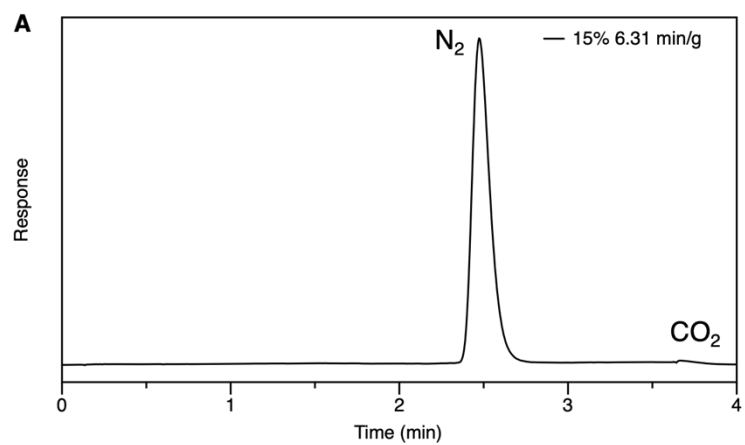


Fig. S34. GC data analyzing the outlet gas after adsorption per gram of aerogel support at 15/85 (CO_2/N_2) per min at 50°C. (A) the GC standard data for the mixed gas before adsorption, and (B to F) the outlet gas data per minute after adsorption.



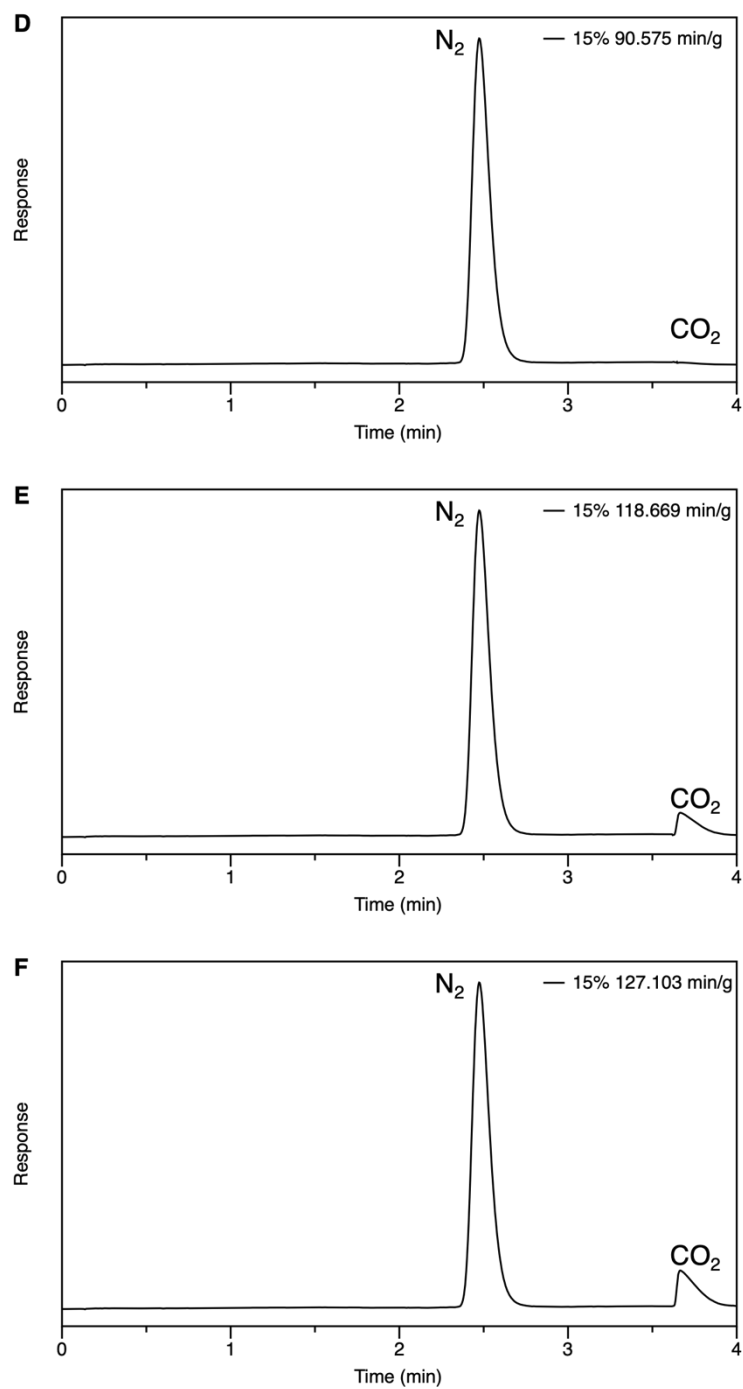
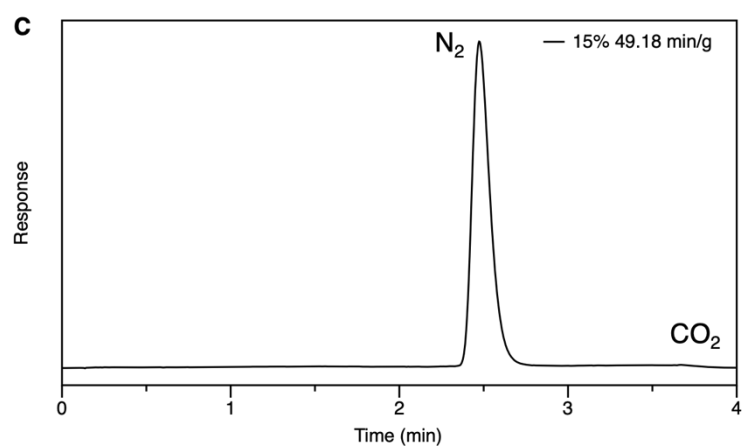
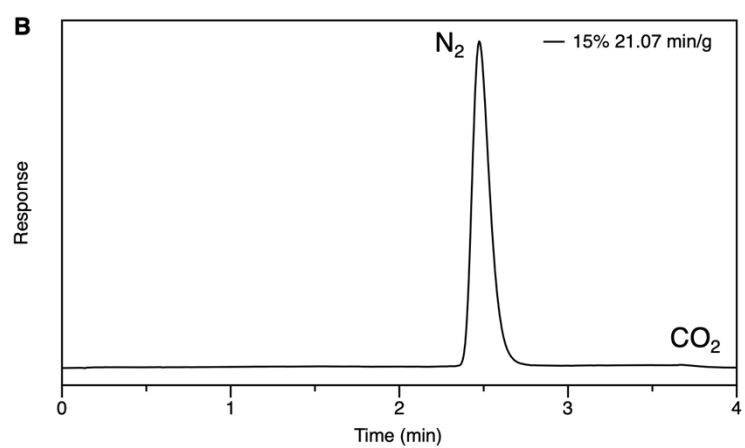
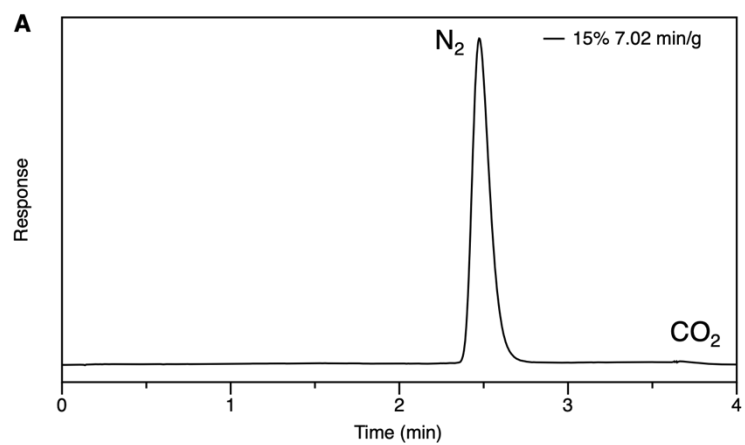


Fig. S35. GC data analyzing the outlet gas after adsorption per gram of aerogel support at 15/85 (CO_2/N_2) per min at 70°C. (A to F) the outlet gas data per minute after adsorption.



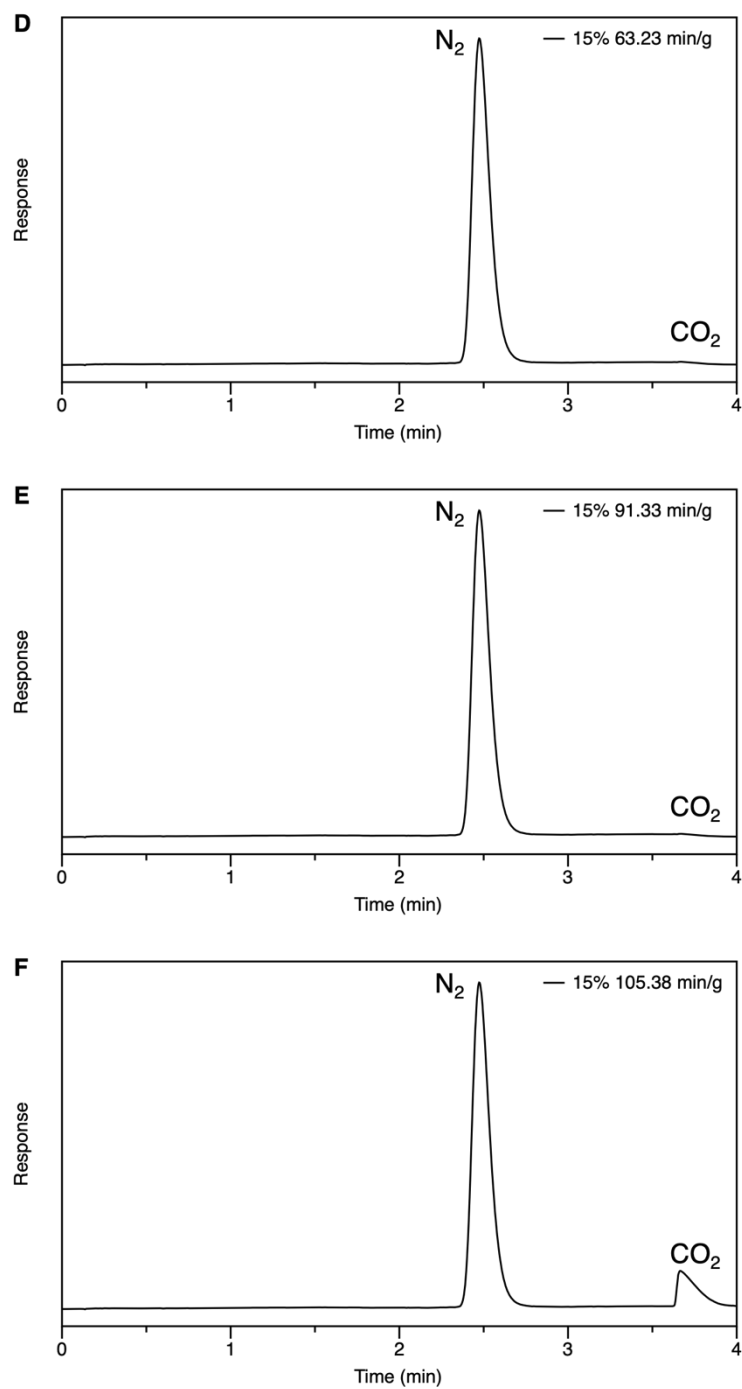
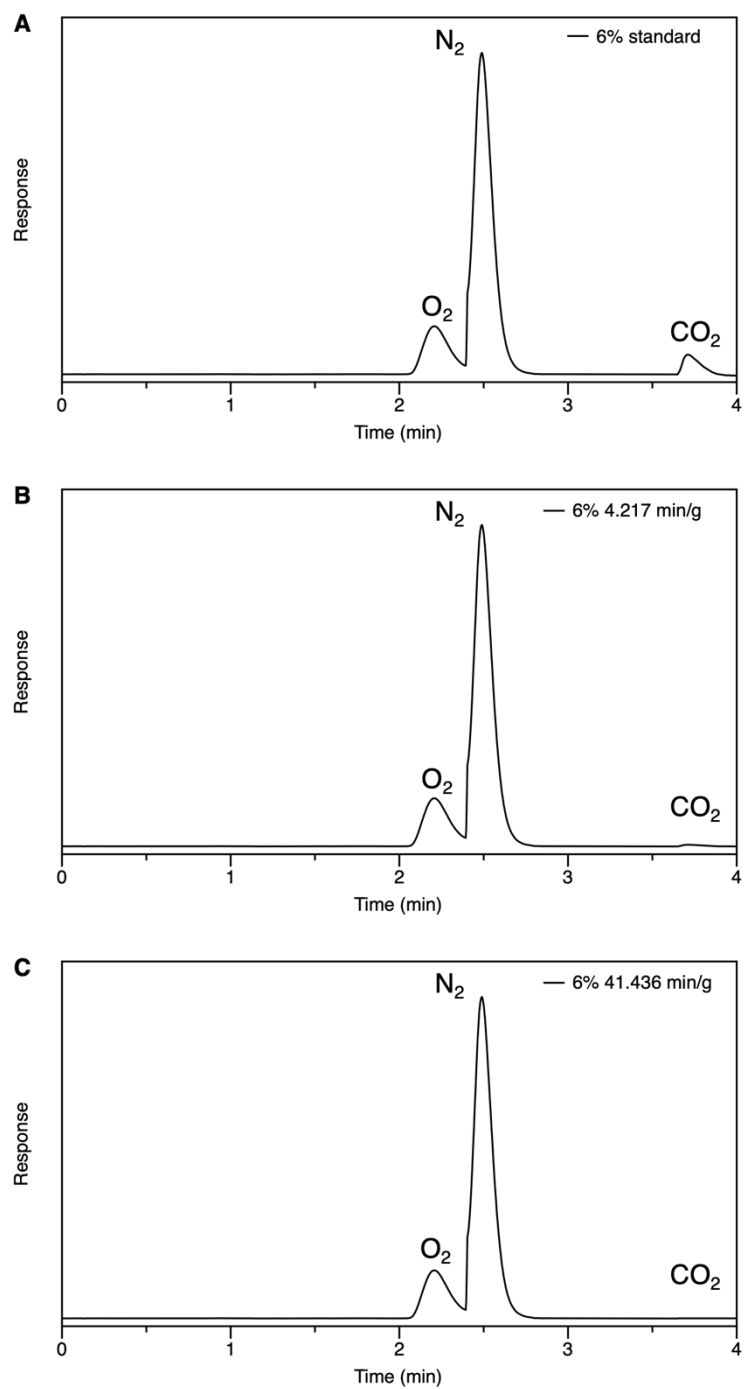


Fig. S36. GC data analyzing the outlet gas after adsorption per gram of aerogel support at 15/85 (CO_2/N_2) per min at 100°C. (A to F) the outlet gas data per minute after adsorption.



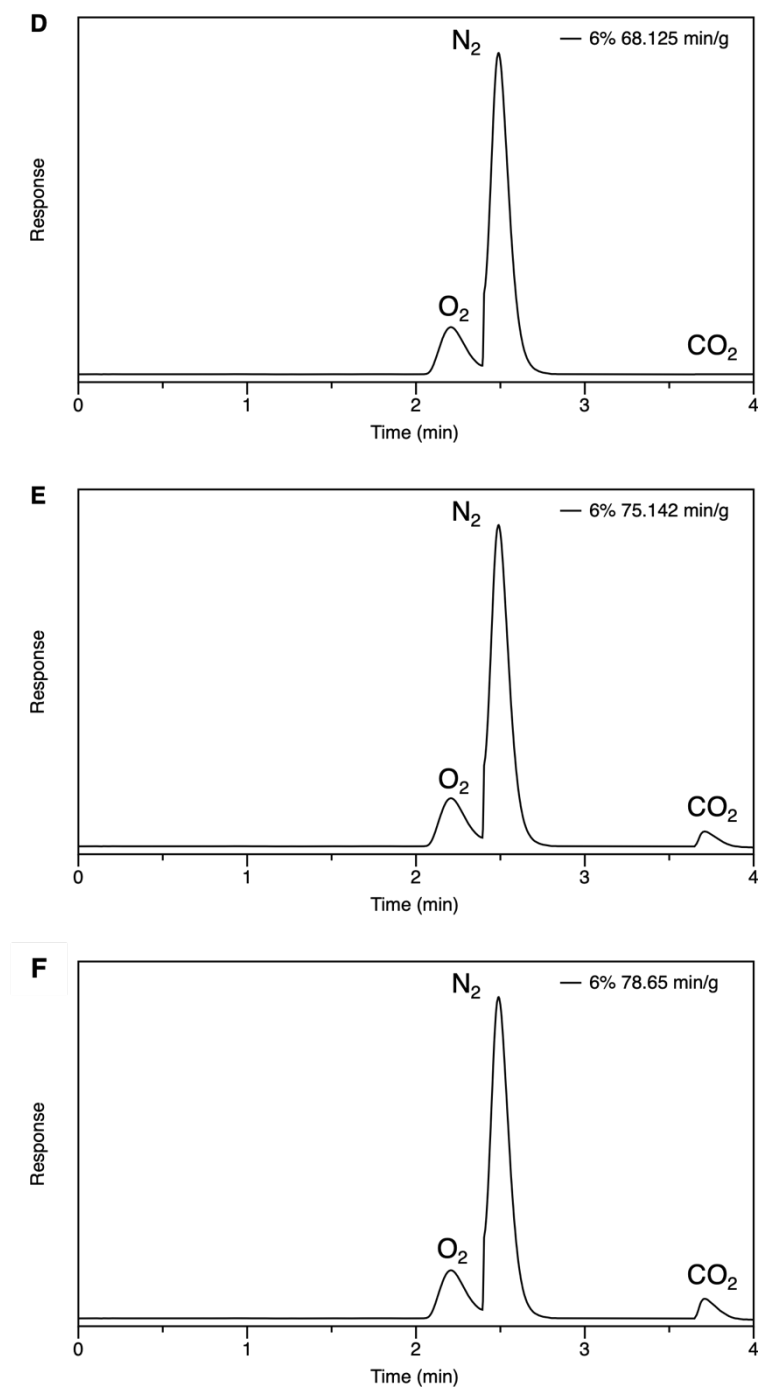
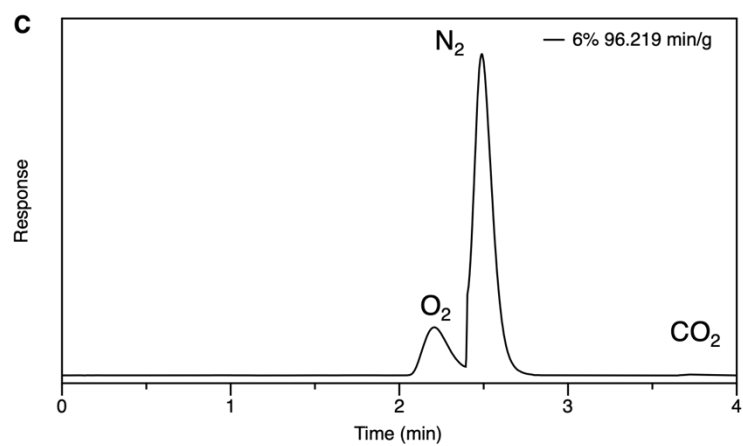
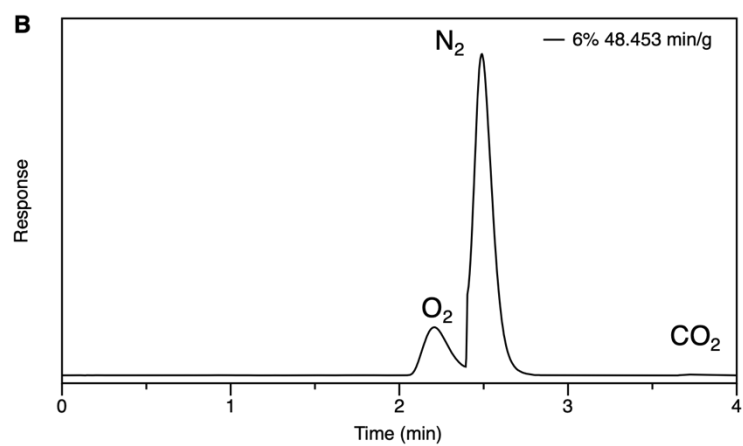
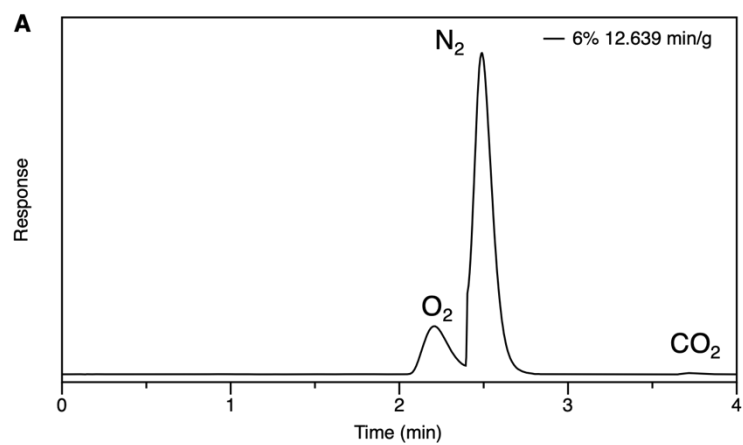


Fig. S37. GC data analyzing the outlet gas after adsorption per gram of aerogel support at 6/16/78 ($\text{CO}_2/\text{O}_2/\text{N}_2$) per min at 50°C. (A) the GC standard data for the mixed gas before adsorption, and (B to F) the outlet gas data per minute after adsorption.



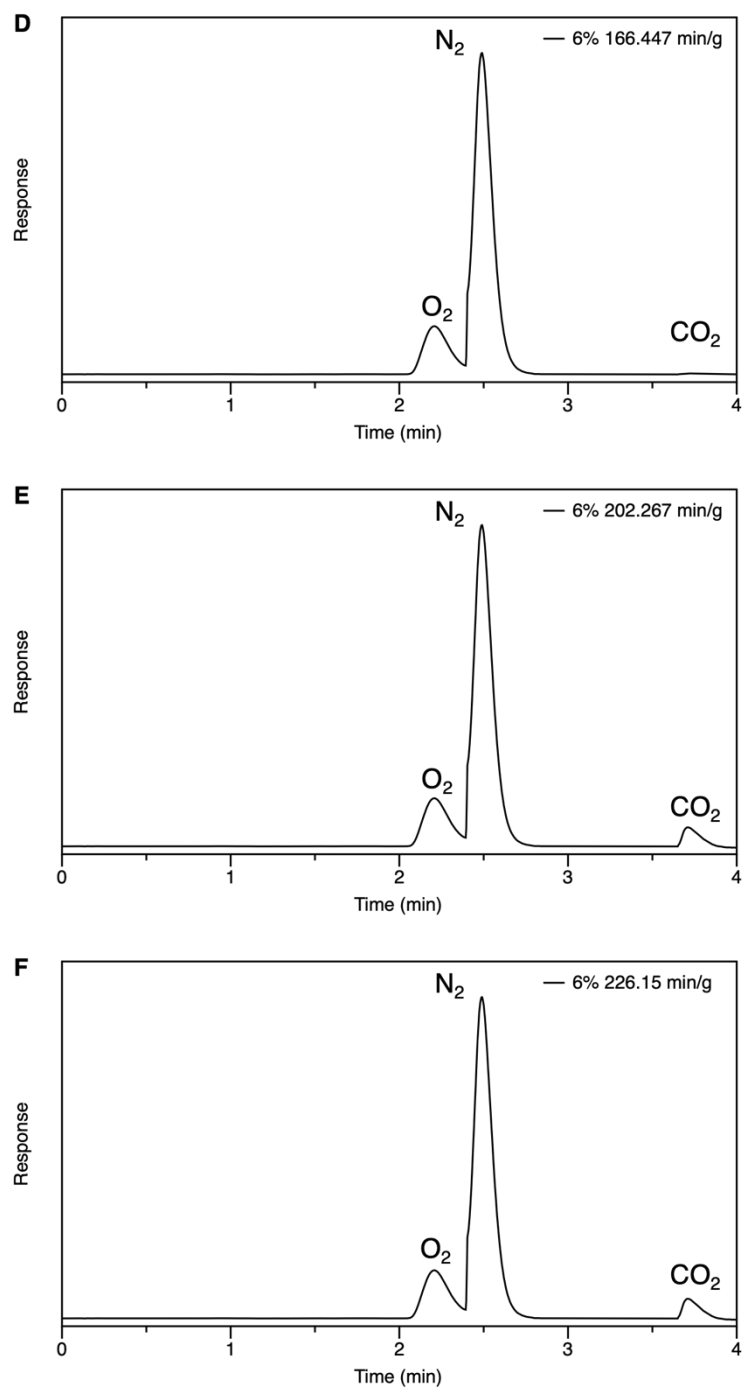
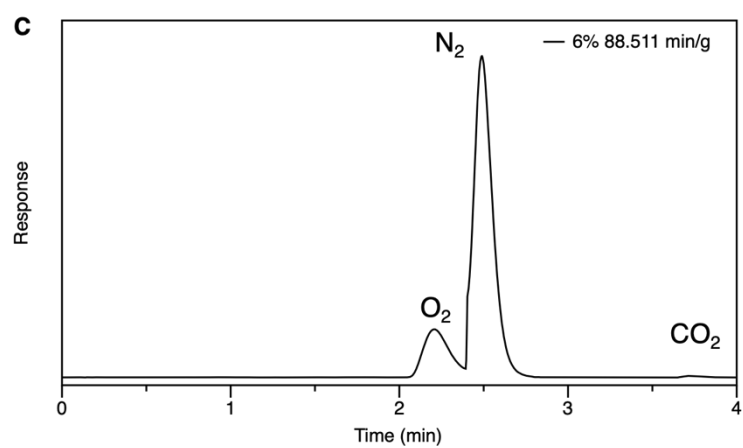
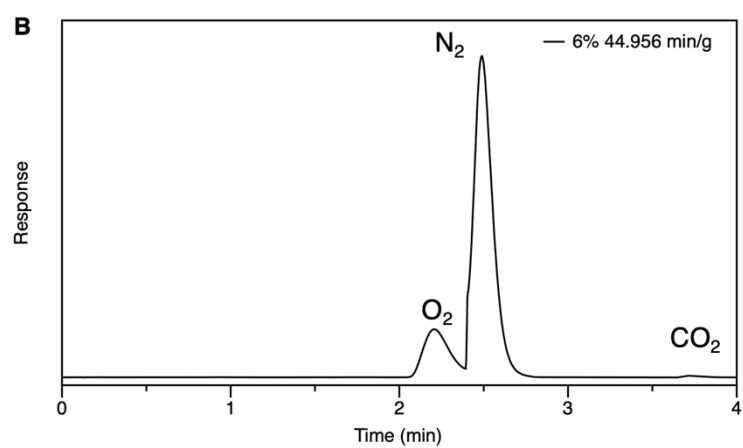
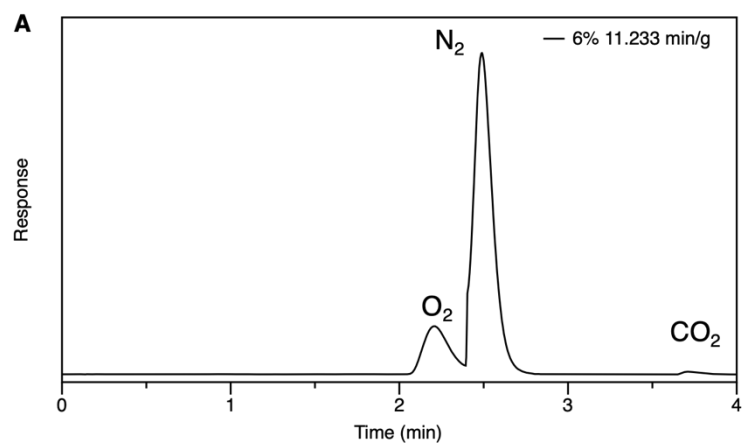


Fig. S38. GC data analyzing the outlet gas after adsorption per gram of aerogel support at 6/16/78 ($CO_2/O_2/N_2$) per min at 70°C. (**A** to **F**) the outlet gas data per minute after adsorption.



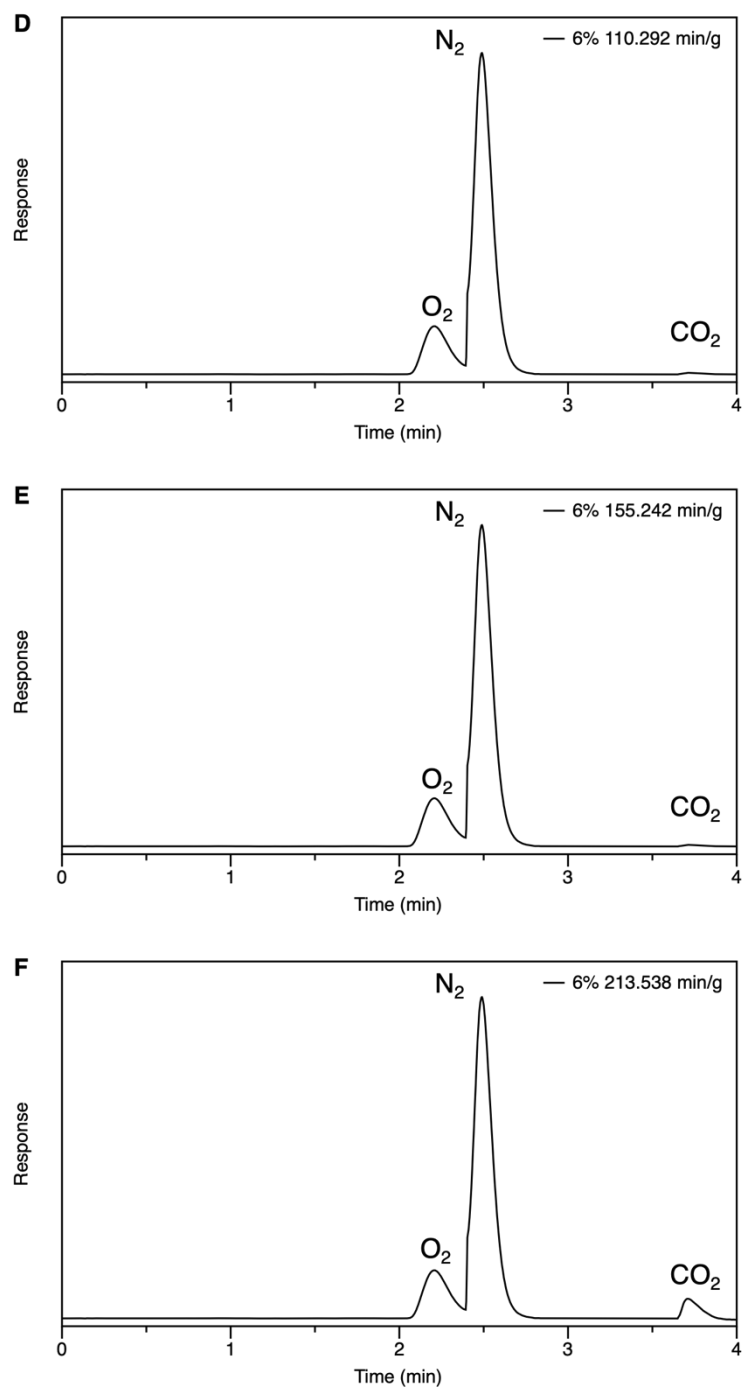


Fig. S39. GC data analyzing the outlet gas after adsorption per gram of aerogel support at 6/16/78 ($CO_2/O_2/N_2$) per min at 100°C. (**A** to **F**) the outlet gas data per minute after adsorption.

Table S10. GC data measured after passing a mixed gas with a CO₂/N₂ (4/96) ratio at 50°C through an aerogel support at a flow rate of 20 ml/min.

Time (min/g)	N ₂ area	CO ₂ area	N ₂ adsorption (ppm)	CO ₂ adsorption (ppm)	N ₂ adsorption (ml)	CO ₂ adsorption (ml)	N ₂ adsorption (mmol/g)	CO ₂ adsorption (mmol/g)
Standard	1203.412	36.416	960000	40000	-	-	-	-
0.17	1201.435	0	1577	40000	0.06	1.60	0.00	0.01
0.70	1201.688	0	1375	40000	0.11	3.20	0.00	0.02
1.41	1201.219	0	1749	40000	0.14	3.20	0.00	0.02
2.11	1201.958	0	1160	40000	0.09	3.20	0.00	0.02
2.81	1201.693	0	1371	40000	0.11	3.20	0.00	0.02
3.51	1201.495	0	1529	40000	0.12	3.20	0.00	0.02
4.22	1201.997	0	1129	40000	0.09	3.20	0.00	0.02
4.92	1201.774	0	1307	40000	0.10	3.20	0.00	0.02
5.62	1201.792	0	1292	40000	0.10	3.20	0.00	0.02
6.32	1201.339	0	1654	40000	0.13	3.20	0.00	0.02
7.02	1201.68	0	1382	40000	0.11	3.20	0.00	0.02
7.73	1201.385	0	1617	40000	0.13	3.20	0.00	0.02
8.43	1201.998	0	1128	40000	0.09	3.20	0.00	0.02
9.13	1201.834	0	1259	40000	0.10	3.20	0.00	0.02
9.83	1201.811	0	1277	40000	0.10	3.20	0.00	0.02
10.53	1201.809	0	1279	40000	0.10	3.20	0.00	0.02
11.21	1201.837	0	1256	40000	0.10	3.20	0.00	0.02
11.91	1201.897	0	1209	40000	0.10	3.20	0.00	0.02
12.61	1201.841	0	1253	40000	0.10	3.20	0.00	0.02
13.31	1201.896	0	1209	40000	0.10	3.20	0.00	0.02
14.02	1201.859	0	1239	40000	0.10	3.20	0.00	0.02
14.72	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
15.42	1201.833	0	1260	40000	0.10	3.20	0.00	0.02
16.13	1201.87	0	1230	40000	0.10	3.20	0.00	0.02
16.83	1201.888	0	1216	40000	0.10	3.20	0.00	0.02
17.53	1201.847	0	1248	40000	0.10	3.20	0.00	0.02

18.23	1201.869	0	1231	40000	0.10	3.20	0.00	0.02
18.90	1201.857	0	1240	40000	0.10	3.20	0.00	0.02
19.60	1201.889	0	1215	40000	0.10	3.20	0.00	0.02
20.31	1201.884	0	1219	40000	0.10	3.20	0.00	0.02
21.01	1201.874	0	1227	40000	0.10	3.20	0.00	0.02
21.71	1201.901	0	1205	40000	0.10	3.20	0.00	0.02
22.41	1201.899	0	1207	40000	0.10	3.20	0.00	0.02
23.12	1201.904	0	1203	40000	0.10	3.20	0.00	0.02
23.82	1201.889	0	1215	40000	0.10	3.20	0.00	0.02
24.52	1201.835	0	1258	40000	0.10	3.20	0.00	0.02
25.23	1201.855	0	1242	40000	0.10	3.20	0.00	0.02
25.93	1201.901	0	1205	40000	0.10	3.20	0.00	0.02
26.63	1201.854	0	1243	40000	0.10	3.20	0.00	0.02
27.33	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
28.04	1201.891	0	1213	40000	0.10	3.20	0.00	0.02
28.74	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
29.44	1201.892	0	1213	40000	0.10	3.20	0.00	0.02
30.14	1201.897	0	1209	40000	0.10	3.20	0.00	0.02
30.85	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
31.55	1201.891	0	1213	40000	0.10	3.20	0.00	0.02
32.25	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
32.96	1201.891	0	1213	40000	0.10	3.20	0.00	0.02
33.66	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
34.36	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
35.03	1201.891	0	1213	40000	0.10	3.20	0.00	0.02
35.73	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
36.44	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
37.14	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
37.84	1201.891	0	1213	40000	0.10	3.20	0.00	0.02
38.54	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
39.24	1201.885	0	1218	40000	0.10	3.20	0.00	0.02

39.94	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
40.65	1201.891	0	1213	40000	0.10	3.20	0.00	0.02
41.35	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
42.05	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
42.76	1201.891	0	1213	40000	0.10	3.20	0.00	0.02
43.46	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
44.16	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
44.86	1201.891	0	1213	40000	0.10	3.20	0.00	0.02
45.57	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
46.27	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
46.97	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
47.68	1201.891	0	1213	40000	0.10	3.20	0.00	0.02
48.38	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
49.08	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
49.78	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
50.46	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
51.16	1201.89	0	1214	40000	0.10	3.20	0.00	0.02
51.86	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
52.57	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
53.27	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
53.97	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
54.67	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
55.37	1201.891	0	1213	40000	0.10	3.20	0.00	0.02
56.08	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
56.78	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
57.48	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
58.18	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
58.89	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
59.59	1201.89	0	1214	40000	0.10	3.20	0.00	0.02
60.29	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
60.99	1201.885	0	1218	40000	0.10	3.20	0.00	0.02

61.70	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
62.40	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
63.10	1201.891	0	1213	40000	0.10	3.20	0.00	0.02
63.80	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
64.50	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
65.21	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
65.91	1201.891	0	1213	40000	0.10	3.20	0.00	0.02
66.61	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
67.31	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
68.01	1201.891	0	1213	40000	0.10	3.20	0.00	0.02
68.71	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
69.42	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
70.12	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
70.82	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
71.53	1201.891	0	1213	40000	0.10	3.20	0.00	0.02
72.23	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
72.93	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
73.61	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
74.31	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
75.01	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
75.71	1201.891	0	1213	40000	0.10	3.20	0.00	0.02
76.42	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
77.12	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
77.82	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
78.50	1201.891	0	1213	40000	0.10	3.20	0.00	0.02
79.20	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
79.90	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
80.58	1201.891	0	1213	40000	0.10	3.20	0.00	0.02
81.28	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
81.98	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
82.69	1201.885	0	1218	40000	0.10	3.20	0.00	0.02

83.39	1201.89	0	1214	40000	0.10	3.20	0.00	0.02
84.09	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
84.79	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
85.49	1201.894	0	1211	40000	0.10	3.20	0.00	0.02
86.19	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
86.89	1201.885	0	1218	40000	0.10	3.20	0.00	0.02
87.59	1201.891	0	1213	40000	0.10	3.20	0.00	0.02
88.30	1201.891	0	1213	40000	0.10	3.20	0.00	0.02
89.01	1201.891	2.335	1213	37435	0.10	2.99	0.00	0.02
89.71	1201.889	8.559	1215	30599	0.10	2.45	0.00	0.02
90.41	1201.891	16.117	1213	22297	0.10	1.78	0.00	0.01
91.11	1201.89	23.334	1214	14370	0.10	1.15	0.00	0.01
91.81	1201.89	33.715	1214	2967	0.10	0.24	0.00	0.00
92.52	1201.889	36.411	1215	5	0.10	0.00	0.00	0.00
93.22	1201.89	36.415	1214	1	0.10	0.00	0.00	0.00

Table S11. GC data measured after passing a mixed gas with a CO₂/N₂ (4/96) ratio at 70°C through an aerogel support at a flow rate of 20 ml/min.

Time (min/g)	N ₂ area	CO ₂ area	N ₂ adsorption (ppm)	CO ₂ adsorption (ppm)	N ₂ adsorption (ml)	CO ₂ adsorption (ml)	N ₂ adsorption (mmol/g)	CO ₂ adsorption (mmol/g)
Standard	1203.412	36.416	960000	40000	-	-	-	-
0.17	1201.887	19.998	1217	18034	0.05	0.72	0.00	0.00
0.70	1202.239	17.115	936	21201	0.07	1.70	0.00	0.01
1.40	1202.338	17.1	857	21217	0.07	1.70	0.00	0.01
2.11	1202.433	12.958	781	25767	0.06	2.06	0.00	0.01
2.81	1202.666	12.496	595	26274	0.05	2.10	0.00	0.01
3.51	1203.814	11.811	-321	27027	-0.03	2.16	0.00	0.01
4.21	1203.673	10.452	-208	28519	-0.02	2.28	0.00	0.02
4.91	1203.885	10.72	-377	28225	-0.03	2.26	0.00	0.02
5.61	1202.806	10.452	483	28519	0.04	2.28	0.00	0.02
6.32	1203.111	10.72	240	28225	0.02	2.26	0.00	0.02
7.02	1202.775	7.727	508	31513	0.04	2.52	0.00	0.02
7.72	1202.79	8.43	496	30740	0.04	2.46	0.00	0.02
8.42	1202.81	8.277	480	30908	0.04	2.47	0.00	0.02
9.12	1202.827	7.772	467	31463	0.04	2.52	0.00	0.02
9.83	1202.82	7.221	472	32068	0.04	2.57	0.00	0.02
10.53	1202.827	7.165	467	32130	0.04	2.57	0.00	0.02
11.23	1202.82	7.009	472	32301	0.04	2.58	0.00	0.02
11.93	1202.855	6.953	444	32363	0.04	2.59	0.00	0.02
12.63	1202.901	6.884	408	32438	0.03	2.60	0.00	0.02
13.34	1202.914	6.792	397	32540	0.03	2.60	0.00	0.02
14.04	1202.915	6.717	396	32622	0.03	2.61	0.00	0.02
14.74	1202.919	6.654	393	32691	0.03	2.62	0.00	0.02
15.44	1202.933	6.554	382	32801	0.03	2.62	0.00	0.02
16.14	1202.959	6.505	361	32855	0.03	2.63	0.00	0.02
16.84	1202.93	6.391	385	32980	0.03	2.64	0.00	0.02
17.54	1202.914	6.154	397	33240	0.03	2.66	0.00	0.02

18.25	1202.911	6.05	400	33355	0.03	2.67	0.00	0.02
18.95	1202.909	5.914	401	33504	0.03	2.68	0.00	0.02
19.65	1202.905	5.859	404	33564	0.03	2.69	0.00	0.02
20.36	1202.906	5.787	404	33643	0.03	2.69	0.00	0.02
21.06	1202.909	5.703	401	33736	0.03	2.70	0.00	0.02
21.76	1202.913	5.646	398	33798	0.03	2.70	0.00	0.02
22.46	1202.901	5.579	408	33872	0.03	2.71	0.00	0.02
23.16	1202.9	5.833	408	33593	0.03	2.69	0.00	0.02
23.86	1202.886	5.811	420	33617	0.03	2.69	0.00	0.02
24.57	1202.891	5.633	416	33813	0.03	2.71	0.00	0.02
25.27	1202.889	5.557	417	33896	0.03	2.71	0.00	0.02
25.97	1202.9	5.481	408	33980	0.03	2.72	0.00	0.02
26.67	1202.908	5.505	402	33953	0.03	2.72	0.00	0.02
27.38	1202.915	5.414	396	34053	0.03	2.72	0.00	0.02
28.08	1202.919	5.276	393	34205	0.03	2.74	0.00	0.02
28.78	1202.909	5.178	401	34312	0.03	2.74	0.00	0.02
29.48	1202.855	5.051	444	34452	0.04	2.76	0.00	0.02
30.18	1202.871	4.775	432	34755	0.03	2.78	0.00	0.02
30.88	1202.855	4.438	444	35125	0.04	2.81	0.00	0.02
31.58	1202.883	4.212	422	35373	0.03	2.83	0.00	0.02
32.29	1202.928	4.077	386	35522	0.03	2.84	0.00	0.02
32.99	1202.905	3.914	404	35701	0.03	2.86	0.00	0.02
33.69	1202.909	3.833	401	35790	0.03	2.86	0.00	0.02
34.39	1202.896	3.641	412	36001	0.03	2.88	0.00	0.02
35.06	1202.874	3.417	429	36247	0.03	2.90	0.00	0.02
35.73	1202.87	3.417	432	36247	0.03	2.90	0.00	0.02
36.43	1202.87	3.342	432	36329	0.03	2.91	0.00	0.02
37.13	1202.909	3.003	401	36701	0.03	2.94	0.00	0.02
37.83	1202.907	2.816	403	36907	0.03	2.95	0.00	0.02
38.53	1202.905	2.644	404	37096	0.03	2.97	0.00	0.02

39.24	1202.908	2.226	402	37555	0.03	3.00	0.00	0.02
39.94	1202.909	2.216	401	37566	0.03	3.01	0.00	0.02
40.64	1202.902	2.117	407	37675	0.03	3.01	0.00	0.02
41.34	1202.91	2.059	400	37738	0.03	3.02	0.00	0.02
42.04	1202.907	1.947	403	37861	0.03	3.03	0.00	0.02
42.75	1202.905	1.814	404	38007	0.03	3.04	0.00	0.02
43.45	1202.904	1.728	405	38102	0.03	3.05	0.00	0.02
44.15	1202.91	1.64	400	38199	0.03	3.06	0.00	0.02
44.86	1202.907	1.572	403	38273	0.03	3.06	0.00	0.02
45.56	1202.912	1.388	399	38475	0.03	3.08	0.00	0.02
46.26	1202.906	1.224	404	38656	0.03	3.09	0.00	0.02
46.96	1202.908	1.168	402	38717	0.03	3.10	0.00	0.02
47.67	1202.911	1.029	400	38870	0.03	3.11	0.00	0.02
48.37	1202.909	0.977	401	38927	0.03	3.11	0.00	0.02
49.07	1202.906	0.906	404	39005	0.03	3.12	0.00	0.02
49.78	1202.904	0.818	405	39101	0.03	3.13	0.00	0.02
50.48	1202.912	0.747	399	39179	0.03	3.13	0.00	0.02
51.18	1202.907	0.681	403	39252	0.03	3.14	0.00	0.02
51.88	1202.909	0.605	401	39335	0.03	3.15	0.00	0.02
52.59	1202.903	0.563	406	39382	0.03	3.15	0.00	0.02
53.29	1202.911	0.511	400	39439	0.03	3.16	0.00	0.02
53.99	1202.908	0.487	402	39465	0.03	3.16	0.00	0.02
54.69	1202.91	0.451	400	39505	0.03	3.16	0.00	0.02
55.39	1202.907	0.429	403	39529	0.03	3.16	0.00	0.02
56.09	1202.909	0.407	401	39553	0.03	3.16	0.00	0.02
56.80	1202.911	0.389	400	39573	0.03	3.17	0.00	0.02
57.50	1202.908	0.367	402	39597	0.03	3.17	0.00	0.02
58.20	1202.91	0.352	400	39613	0.03	3.17	0.00	0.02
58.90	1202.907	0.343	403	39623	0.03	3.17	0.00	0.02
59.61	1202.908	0.339	402	39628	0.03	3.17	0.00	0.02

60.31	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
61.01	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
61.71	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
62.41	1202.91	0.336	400	39631	0.03	3.17	0.00	0.02
63.12	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
63.82	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
64.52	1202.911	0.338	400	39629	0.03	3.17	0.00	0.02
65.23	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
65.93	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
66.63	1202.903	0.337	406	39630	0.03	3.17	0.00	0.02
67.33	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
68.04	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
68.74	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
69.44	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
70.14	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
70.84	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
71.55	1202.903	0.337	406	39630	0.03	3.17	0.00	0.02
72.25	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
72.95	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
73.66	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
74.36	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
75.06	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
75.76	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
76.46	1202.908	0.338	402	39629	0.03	3.17	0.00	0.02
77.17	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
77.87	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
78.57	1202.903	0.337	406	39630	0.03	3.17	0.00	0.02
79.27	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
79.98	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
80.68	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02

81.38	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
82.08	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
82.79	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
83.49	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
84.19	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
84.89	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
85.59	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
86.30	1202.903	0.337	406	39630	0.03	3.17	0.00	0.02
87.00	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
87.70	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
88.41	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
89.11	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
89.81	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
90.51	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
91.21	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
91.92	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
92.62	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
93.32	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
94.03	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
94.73	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
95.43	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
96.13	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
96.83	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
97.54	1202.903	0.337	406	39630	0.03	3.17	0.00	0.02
98.24	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
98.94	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
99.64	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
100.34	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
101.05	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
101.75	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02

102.45	1202.908	0.339	402	39628	0.03	3.17	0.00	0.02
103.16	1202.91	0.338	400	39629	0.03	3.17	0.00	0.02
103.86	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
104.56	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
105.26	1202.903	0.337	406	39630	0.03	3.17	0.00	0.02
105.96	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
106.67	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
107.37	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
108.07	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
108.78	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
109.48	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
110.18	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
110.88	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
111.58	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
112.29	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
112.99	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
113.69	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
114.39	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
115.09	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
115.80	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
116.50	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
117.20	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
117.91	1202.903	0.337	406	39630	0.03	3.17	0.00	0.02
118.61	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
119.31	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
120.01	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
120.71	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
121.42	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
122.12	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
122.82	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02

123.53	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
124.23	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
124.93	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
125.63	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
126.33	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
127.04	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
127.74	1202.903	0.337	406	39630	0.03	3.17	0.00	0.02
128.44	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
129.14	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
129.84	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
130.55	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
131.25	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
131.95	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
132.66	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
133.36	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
134.06	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
134.76	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
135.47	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
136.17	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
136.87	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
137.57	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
138.28	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
138.98	1202.903	0.337	406	39630	0.03	3.17	0.00	0.02
139.68	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
140.38	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
141.08	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
141.79	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
142.49	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
143.19	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
143.89	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02

144.60	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
145.30	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
146.00	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
146.70	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
147.41	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
148.11	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
148.81	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
149.51	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
150.22	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
150.92	1202.903	0.337	406	39630	0.03	3.17	0.00	0.02
151.62	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
152.33	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
153.03	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
153.73	1202.907	0.336	403	39631	0.03	3.17	0.00	0.02
154.43	1202.909	0.336	401	39631	0.03	3.17	0.00	0.02
155.13	1202.911	0.338	400	39629	0.03	3.17	0.00	0.02
155.84	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
156.54	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
157.24	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
157.94	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
158.64	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
159.35	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
160.05	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
160.75	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
161.46	1202.909	0.336	401	39631	0.03	3.17	0.00	0.02
162.16	1202.903	0.337	406	39630	0.03	3.17	0.00	0.02
162.86	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
163.56	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
164.26	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
164.97	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02

165.67	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
166.37	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
167.07	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
167.78	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
168.48	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
169.18	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
169.88	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
170.59	1202.908	0.338	402	39629	0.03	3.17	0.00	0.02
171.29	1202.907	0.338	403	39629	0.03	3.17	0.00	0.02
171.99	1202.91	0.338	400	39629	0.03	3.17	0.00	0.02
172.69	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
173.39	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
174.10	1202.903	0.337	406	39630	0.03	3.17	0.00	0.02
174.80	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
175.50	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
176.20	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
176.91	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
177.61	1202.903	0.337	406	39630	0.03	3.17	0.00	0.02
178.31	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
179.01	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
179.72	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
180.42	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
181.12	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
181.82	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
182.53	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
183.23	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
183.93	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
184.63	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
185.34	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
186.04	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02

186.74	1202.903	0.337	406	39630	0.03	3.17	0.00	0.02
187.44	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
188.14	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
188.85	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
189.55	1202.903	0.337	406	39630	0.03	3.17	0.00	0.02
190.25	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
190.95	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
191.66	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
192.36	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
193.06	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
193.76	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
194.47	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
195.17	1202.903	0.337	406	39630	0.03	3.17	0.00	0.02
195.87	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
196.57	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
197.28	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
197.92	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
198.63	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
199.33	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
200.03	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
200.73	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
201.43	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
202.14	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
202.84	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
203.54	1202.903	0.337	406	39630	0.03	3.17	0.00	0.02
204.24	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
204.95	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
205.65	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
206.35	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
207.06	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02

207.76	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
208.46	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
209.16	1202.903	0.337	406	39630	0.03	3.17	0.00	0.02
209.86	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
210.51	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
211.21	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
211.92	1202.907	0.336	403	39631	0.03	3.17	0.00	0.02
212.62	1202.909	0.336	401	39631	0.03	3.17	0.00	0.02
213.32	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
214.03	1202.908	0.336	402	39631	0.03	3.17	0.00	0.02
214.73	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
215.43	1202.907	0.338	403	39629	0.03	3.17	0.00	0.02
216.13	1202.908	0.338	402	39629	0.03	3.17	0.00	0.02
216.83	1202.911	0.336	400	39631	0.03	3.17	0.00	0.02
217.48	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
218.18	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
218.89	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
219.59	1202.903	0.337	406	39630	0.03	3.17	0.00	0.02
220.29	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
220.99	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
221.69	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
222.40	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
223.10	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
223.80	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
224.51	1202.908	0.338	402	39629	0.03	3.17	0.00	0.02
225.21	1202.91	0.338	400	39629	0.03	3.17	0.00	0.02
225.91	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
226.61	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
227.31	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
228.02	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02

228.72	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
229.42	1202.903	0.337	406	39630	0.03	3.17	0.00	0.02
230.13	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
230.83	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
231.53	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
232.23	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
232.93	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
233.64	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
234.34	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
234.99	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
235.69	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
236.39	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
237.09	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
237.79	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
238.50	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
239.20	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
239.90	1202.909	0.34	401	39627	0.03	3.17	0.00	0.02
240.61	1202.903	0.338	406	39629	0.03	3.17	0.00	0.02
241.31	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
242.01	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
242.71	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
243.41	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
244.12	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
244.82	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
245.52	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
246.22	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
246.93	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
247.63	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
248.33	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
249.00	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02

249.70	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
250.40	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
251.11	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
251.81	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
252.51	1202.903	0.337	406	39630	0.03	3.17	0.00	0.02
253.21	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
253.91	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
254.62	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
255.32	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
256.02	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
256.73	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
257.43	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
258.13	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
258.83	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
259.53	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
260.24	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
260.94	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
261.64	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
262.34	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
263.04	1202.903	0.337	406	39630	0.03	3.17	0.00	0.02
263.75	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
264.45	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
265.15	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
265.85	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
266.56	1202.909	0.338	401	39629	0.03	3.17	0.00	0.02
267.26	1202.911	0.339	400	39628	0.03	3.17	0.00	0.02
267.96	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
268.66	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
269.37	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
270.07	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02

270.77	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
271.47	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
272.18	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
272.88	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
273.58	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
274.28	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
274.99	1202.903	0.337	406	39630	0.03	3.17	0.00	0.02
275.69	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
276.39	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
277.09	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
277.79	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
278.50	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
279.20	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
279.90	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
280.61	1202.91	0.339	400	39628	0.03	3.17	0.00	0.02
281.31	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
282.01	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
282.71	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
283.41	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
284.12	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
284.82	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
285.52	1202.903	0.334	406	39633	0.03	3.17	0.00	0.02
286.23	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
286.93	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
287.63	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
288.33	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
289.03	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
289.74	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
290.44	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
291.14	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02

291.84	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
292.54	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
293.25	1202.911	0.338	400	39629	0.03	3.17	0.00	0.02
293.95	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
294.65	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
295.36	1202.903	0.337	406	39630	0.03	3.17	0.00	0.02
296.06	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
296.76	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
297.46	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
298.17	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
298.87	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
299.57	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
300.27	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
300.98	1202.903	0.337	406	39630	0.03	3.17	0.00	0.02
301.68	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
302.38	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
303.08	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
303.79	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
304.49	1202.909	0.337	401	39630	0.03	3.17	0.00	0.02
305.19	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
305.89	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
306.59	1202.91	0.337	400	39630	0.03	3.17	0.00	0.02
307.30	1202.907	0.337	403	39630	0.03	3.17	0.00	0.02
308.00	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
308.70	1202.911	0.337	400	39630	0.03	3.17	0.00	0.02
309.41	1202.908	0.337	402	39630	0.03	3.17	0.00	0.02
310.11	1202.907	0.339	403	39628	0.03	3.17	0.00	0.02
310.81	1202.909	0.339	401	39628	0.03	3.17	0.00	0.02
311.51	1202.955	14.882	365	23653	0.03	1.89	0.00	0.01
312.22	1203.118	17.156	235	21156	0.02	1.69	0.00	0.01

312.92	1203.231	22.179	144	15638	0.01	1.25	0.00	0.01
313.62	1203.277	30.657	108	6326	0.01	0.51	0.00	0.00
314.33	1203.301	36.297	89	131	0.01	0.01	0.00	0.00
315.03	1203.368	36.409	35	8	0.00	0.00	0.00	0.00

Table S12. GC data measured after passing a mixed gas with a CO₂/N₂ (4/96) ratio at 100°C through an aerogel support at a flow rate of 20 ml/min.

Time (min/g)	N ₂ area	CO ₂ area	N ₂ adsorption (ppm)	CO ₂ adsorption (ppm)	N ₂ adsorption (ml)	CO ₂ adsorption (ml)	N ₂ adsorption (mmol/g)	CO ₂ adsorption (mmol/g)
Standard	1203.412	36.416	960000	40000	-	-	-	-
0.17	1201.138	21.334	1814	16566	0.07	0.66	0.00	0.00
0.70	1203.458	19.667	-37	18397	0.00	1.47	0.00	0.01
1.41	1201.851	19.081	1245	19041	0.10	1.52	0.00	0.01
2.11	1201.445	18.381	1569	19810	0.13	1.58	0.00	0.01
2.81	1203.117	17.944	235	20290	0.02	1.62	0.00	0.01
3.51	1203.009	17.458	321	20824	0.03	1.67	0.00	0.01
4.22	1202.119	17.003	1031	21324	0.08	1.71	0.00	0.01
4.92	1201.931	16.73	1181	21623	0.09	1.73	0.00	0.01
5.62	1201.886	16.001	1217	22424	0.10	1.79	0.00	0.01
6.32	1203.285	15.779	101	22668	0.01	1.81	0.00	0.01
6.99	1203.403	15.348	7	23141	0.00	1.85	0.00	0.01
7.70	1200.995	15.449	1928	23031	0.15	1.84	0.00	0.01
8.40	1201.101	15.049	1844	23470	0.15	1.88	0.00	0.01
9.10	1202.224	14.816	948	23726	0.08	1.90	0.00	0.01
9.81	1201.337	14.118	1655	24493	0.13	1.96	0.00	0.01
10.50	1203.007	14.247	323	24351	0.03	1.95	0.00	0.01
11.21	1202.283	13.684	901	24969	0.07	2.00	0.00	0.01
11.91	1203.114	13.091	238	25621	0.02	2.05	0.00	0.01
12.61	1201.99	12.997	1134	25724	0.09	2.06	0.00	0.01
13.31	1202.174	12.376	988	26406	0.08	2.11	0.00	0.01
13.99	1202.778	12.734	506	26013	0.04	2.08	0.00	0.01
14.66	1203.098	12.349	250	26436	0.02	2.11	0.00	0.01
15.37	1203.184	12.051	182	26763	0.01	2.14	0.00	0.01
16.07	1202.997	11.756	331	27087	0.03	2.17	0.00	0.01
16.77	1203.549	11.391	-109	27488	-0.01	2.20	0.00	0.02
17.48	1203.192	11.005	176	27912	0.01	2.23	0.00	0.02

18.17	1202.989	10.598	337	28359	0.03	2.27	0.00	0.02
18.88	1203.319	10.87	74	28060	0.01	2.24	0.00	0.02
19.58	1202.974	10.458	349	28513	0.03	2.28	0.00	0.02
20.28	1201.999	10.193	1127	28804	0.09	2.30	0.00	0.02
20.98	1203.289	9.759	98	29281	0.01	2.34	0.00	0.02
21.69	1203.301	9.443	89	29628	0.01	2.37	0.00	0.02
22.39	1203.007	9.108	323	29996	0.03	2.40	0.00	0.02
23.09	1202.458	8.889	761	30236	0.06	2.42	0.00	0.02
23.79	1202.889	8.406	417	30767	0.03	2.46	0.00	0.02
24.50	1202.653	8.938	605	30182	0.05	2.41	0.00	0.02
25.20	1203.419	8.715	-6	30427	0.00	2.43	0.00	0.02
25.90	1200.993	8.355	1930	30823	0.15	2.47	0.00	0.02
26.61	1201.171	8.031	1788	31179	0.14	2.49	0.00	0.02
27.31	1202.485	7.644	739	31604	0.06	2.53	0.00	0.02
28.01	1202.746	7.302	531	31979	0.04	2.56	0.00	0.02
28.71	1203.339	7.189	58	32103	0.00	2.57	0.00	0.02
29.42	1202.395	6.88	811	32443	0.06	2.60	0.00	0.02
30.12	1202.689	6.54	577	32816	0.05	2.63	0.00	0.02
30.82	1203.192	6.231	176	33156	0.01	2.65	0.00	0.02
31.53	1203.009	6.118	321	33280	0.03	2.66	0.00	0.02
32.23	1201.293	6.039	1690	33367	0.14	2.67	0.00	0.02
32.93	1202.084	5.988	1059	33423	0.08	2.67	0.00	0.02
33.63	1202.773	5.847	510	33578	0.04	2.69	0.00	0.02
34.34	1202.933	5.801	382	33628	0.03	2.69	0.00	0.02
35.04	1203.196	5.786	172	33645	0.01	2.69	0.00	0.02
35.71	1203.074	5.738	270	33697	0.02	2.70	0.00	0.02
36.42	1203.233	5.701	143	33738	0.01	2.70	0.00	0.02
37.12	1203.231	5.683	144	33758	0.01	2.70	0.00	0.02
37.82	1203.137	5.648	219	33796	0.02	2.70	0.00	0.02
38.53	1203.2	5.619	169	33828	0.01	2.71	0.00	0.02

39.23	1203.204	5.588	166	33862	0.01	2.71	0.00	0.02
39.93	1203.119	5.603	234	33846	0.02	2.71	0.00	0.02
40.63	1203.207	5.591	164	33859	0.01	2.71	0.00	0.02
41.34	1203.222	5.548	152	33906	0.01	2.71	0.00	0.02
42.04	1203.219	5.489	154	33971	0.01	2.72	0.00	0.02
42.74	1203.227	5.441	148	34024	0.01	2.72	0.00	0.02
43.44	1203.223	5.193	151	34296	0.01	2.74	0.00	0.02
44.15	1203.216	5.084	156	34416	0.01	2.75	0.00	0.02
44.85	1203.213	5.188	159	34301	0.01	2.74	0.00	0.02
45.55	1203.22	5.142	153	34352	0.01	2.75	0.00	0.02
46.26	1203.218	5.083	155	34417	0.01	2.75	0.00	0.02
46.95	1203.219	5.118	154	34378	0.01	2.75	0.00	0.02
47.66	1203.203	5.098	167	34400	0.01	2.75	0.00	0.02
48.36	1203.209	5.013	162	34494	0.01	2.76	0.00	0.02
49.06	1203.221	5.1	152	34398	0.01	2.75	0.00	0.02
49.76	1203.225	4.991	149	34518	0.01	2.76	0.00	0.02
50.46	1203.219	4.966	154	34545	0.01	2.76	0.00	0.02
51.16	1203.218	4.942	155	34572	0.01	2.77	0.00	0.02
51.87	1203.107	4.906	243	34611	0.02	2.77	0.00	0.02
52.57	1203.198	4.832	171	34692	0.01	2.78	0.00	0.02
53.27	1203.219	4.777	154	34753	0.01	2.78	0.00	0.02
53.98	1203.216	4.743	156	34790	0.01	2.78	0.00	0.02
54.68	1203.218	4.674	155	34866	0.01	2.79	0.00	0.02
55.38	1203.212	4.618	160	34928	0.01	2.79	0.00	0.02
56.08	1203.215	4.544	157	35009	0.01	2.80	0.00	0.02
56.79	1203.218	4.418	155	35147	0.01	2.81	0.00	0.02
57.49	1203.215	4.359	157	35212	0.01	2.82	0.00	0.02
58.19	1203.219	4.357	154	35214	0.01	2.82	0.00	0.02
58.89	1203.218	4.311	155	35265	0.01	2.82	0.00	0.02
59.60	1203.214	4.299	158	35278	0.01	2.82	0.00	0.02

60.30	1203.213	4.138	159	35455	0.01	2.84	0.00	0.02
61.00	1203.214	4.481	158	35078	0.01	2.81	0.00	0.02
61.71	1203.216	4.349	156	35223	0.01	2.82	0.00	0.02
62.41	1203.217	4.317	156	35258	0.01	2.82	0.00	0.02
63.11	1203.218	4.295	155	35282	0.01	2.82	0.00	0.02
63.81	1203.218	4.121	155	35473	0.01	2.84	0.00	0.02
64.52	1203.217	4.009	156	35596	0.01	2.85	0.00	0.02
65.22	1203.215	3.956	157	35655	0.01	2.85	0.00	0.02
65.92	1203.213	3.772	159	35857	0.01	2.87	0.00	0.02
66.63	1203.215	3.946	157	35666	0.01	2.85	0.00	0.02
67.33	1203.215	3.902	157	35714	0.01	2.86	0.00	0.02
68.03	1203.218	3.877	155	35741	0.01	2.86	0.00	0.02
68.73	1203.218	3.835	155	35788	0.01	2.86	0.00	0.02
69.44	1203.217	3.737	156	35895	0.01	2.87	0.00	0.02
70.14	1203.216	3.819	156	35805	0.01	2.86	0.00	0.02
70.84	1203.219	3.655	154	35985	0.01	2.88	0.00	0.02
71.54	1203.217	3.614	156	36030	0.01	2.88	0.00	0.02
72.25	1203.218	3.581	155	36067	0.01	2.89	0.00	0.02
72.95	1203.215	3.565	157	36084	0.01	2.89	0.00	0.02
73.65	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
74.36	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
75.06	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
75.76	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
76.46	1203.214	3.532	158	36120	0.01	2.89	0.00	0.02
77.17	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
77.84	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
78.54	1203.217	3.532	156	36120	0.01	2.89	0.00	0.02
79.25	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
79.95	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
80.65	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02

81.36	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
82.06	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
82.76	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
83.46	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
84.17	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
84.86	1203.214	3.532	158	36120	0.01	2.89	0.00	0.02
85.57	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
86.27	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
86.97	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
87.68	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
88.38	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
89.08	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
89.78	1203.214	3.532	158	36120	0.01	2.89	0.00	0.02
90.49	1203.213	3.533	159	36119	0.01	2.89	0.00	0.02
91.19	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
91.89	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
92.59	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
93.30	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
94.00	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
94.70	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
95.41	1203.213	3.533	159	36119	0.01	2.89	0.00	0.02
96.11	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
96.81	1203.214	3.532	158	36120	0.01	2.89	0.00	0.02
97.51	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
98.22	1203.215	3.531	157	36121	0.01	2.89	0.00	0.02
98.92	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
99.62	1203.213	3.533	159	36119	0.01	2.89	0.00	0.02
100.33	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
101.03	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
101.73	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02

102.43	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
103.14	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
103.84	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
104.54	1203.214	3.532	158	36120	0.01	2.89	0.00	0.02
105.24	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
105.95	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
106.65	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
107.35	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
108.06	1203.214	3.532	158	36120	0.01	2.89	0.00	0.02
108.76	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
109.46	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
110.16	1203.217	3.532	156	36120	0.01	2.89	0.00	0.02
110.87	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
111.57	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
112.27	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
112.98	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
113.68	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
114.38	1203.214	3.532	158	36120	0.01	2.89	0.00	0.02
115.08	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
115.79	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
116.49	1203.217	3.532	156	36120	0.01	2.89	0.00	0.02
117.19	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
117.89	1203.217	3.532	156	36120	0.01	2.89	0.00	0.02
118.60	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
119.30	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
120.00	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
120.71	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
121.41	1203.214	3.532	158	36120	0.01	2.89	0.00	0.02
122.11	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
122.81	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02

123.51	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
124.21	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
124.92	1203.214	3.532	158	36120	0.01	2.89	0.00	0.02
125.62	1203.213	3.534	159	36118	0.01	2.89	0.00	0.02
126.32	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
127.03	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
127.73	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
128.43	1203.214	3.532	158	36120	0.01	2.89	0.00	0.02
129.13	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
129.84	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
130.54	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
131.24	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
131.94	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
132.65	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
133.35	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
134.05	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
134.76	1203.214	3.532	158	36120	0.01	2.89	0.00	0.02
135.46	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
136.16	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
136.86	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
137.57	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
138.27	1203.214	3.532	158	36120	0.01	2.89	0.00	0.02
138.97	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
139.68	1203.215	3.533	157	36119	0.01	2.89	0.00	0.02
140.38	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
141.08	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
141.78	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
142.49	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
143.19	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
143.89	1203.213	3.533	159	36119	0.01	2.89	0.00	0.02

144.59	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
145.30	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
146.00	1203.214	3.532	158	36120	0.01	2.89	0.00	0.02
146.70	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
147.41	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
148.11	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
148.81	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
149.51	1203.214	3.532	158	36120	0.01	2.89	0.00	0.02
150.22	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
150.92	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
151.62	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
152.33	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
153.02	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
153.73	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
154.43	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
155.13	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
155.83	1203.214	3.532	158	36120	0.01	2.89	0.00	0.02
156.54	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
157.24	1203.215	3.531	157	36121	0.01	2.89	0.00	0.02
157.94	1203.213	3.533	159	36119	0.01	2.89	0.00	0.02
158.64	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
159.35	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
160.05	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
160.75	1203.214	3.532	158	36120	0.01	2.89	0.00	0.02
161.46	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
162.16	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
162.86	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
163.56	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
164.24	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
164.94	1203.214	3.532	158	36120	0.01	2.89	0.00	0.02

165.64	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
166.35	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
167.05	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
167.75	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
168.46	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
169.16	1203.214	3.532	158	36120	0.01	2.89	0.00	0.02
169.86	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
170.56	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
171.27	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
171.97	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
172.67	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
173.38	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
174.08	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
174.78	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
175.48	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
176.19	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
176.89	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
177.59	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
178.29	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
179.00	1203.214	3.532	158	36120	0.01	2.89	0.00	0.02
179.70	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
180.40	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
181.11	1203.217	3.532	156	36120	0.01	2.89	0.00	0.02
181.81	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
182.51	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
183.21	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
183.92	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
184.62	1203.217	3.532	156	36120	0.01	2.89	0.00	0.02
185.32	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
186.02	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02

186.72	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
187.43	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
188.13	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
188.83	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
189.53	1203.217	3.533	156	36119	0.01	2.89	0.00	0.02
190.24	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
190.94	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
191.64	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
192.34	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
193.05	1203.217	3.532	156	36120	0.01	2.89	0.00	0.02
193.75	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
194.45	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
195.16	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
195.86	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
196.56	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
197.26	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
197.94	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
198.64	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
199.34	1203.217	3.532	156	36120	0.01	2.89	0.00	0.02
200.05	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
200.75	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
201.45	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
202.16	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
202.86	1203.215	3.531	157	36121	0.01	2.89	0.00	0.02
203.56	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
204.26	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
204.97	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
205.67	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
206.37	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
207.08	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02

207.78	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
208.48	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
209.18	1203.215	3.533	157	36119	0.01	2.89	0.00	0.02
209.89	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
210.59	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
211.29	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
211.99	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
212.70	1203.214	3.532	158	36120	0.01	2.89	0.00	0.02
213.40	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
214.10	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
214.81	1203.217	3.532	156	36120	0.01	2.89	0.00	0.02
215.51	1203.213	3.533	159	36119	0.01	2.89	0.00	0.02
216.18	1203.213	3.533	159	36119	0.01	2.89	0.00	0.02
216.88	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
217.58	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
218.29	1203.217	3.532	156	36120	0.01	2.89	0.00	0.02
218.99	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
219.69	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
220.39	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
221.10	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
221.79	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
222.50	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
223.20	1203.217	3.532	156	36120	0.01	2.89	0.00	0.02
223.90	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
224.61	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
225.31	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
226.01	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
226.71	1203.217	3.532	156	36120	0.01	2.89	0.00	0.02
227.41	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
228.11	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02

228.82	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
229.52	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
230.22	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
230.93	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
231.63	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
232.33	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
233.03	1203.217	3.532	156	36120	0.01	2.89	0.00	0.02
233.74	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
234.44	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
235.14	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
235.84	1203.213	3.531	159	36121	0.01	2.89	0.00	0.02
236.55	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
237.25	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
237.95	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
238.66	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
239.36	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
240.06	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
240.76	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
241.46	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
242.16	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
242.86	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
243.57	1203.214	3.534	158	36118	0.01	2.89	0.00	0.02
244.27	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
244.97	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
245.68	1203.217	3.532	156	36120	0.01	2.89	0.00	0.02
246.38	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
247.08	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
247.78	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
248.49	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
249.19	1203.217	3.532	156	36120	0.01	2.89	0.00	0.02

249.89	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
250.59	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
251.30	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
252.00	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
252.70	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
253.41	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
254.11	1203.217	3.532	156	36120	0.01	2.89	0.00	0.02
254.81	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
255.51	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
256.22	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
256.92	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
257.62	1203.217	3.532	156	36120	0.01	2.89	0.00	0.02
258.33	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
259.02	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
259.73	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
260.43	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
261.13	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
261.81	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
262.51	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
263.21	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
263.91	1203.217	3.532	156	36120	0.01	2.89	0.00	0.02
264.62	1203.213	3.533	159	36119	0.01	2.89	0.00	0.02
265.32	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
266.02	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
266.72	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
267.42	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
268.12	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
268.83	1203.217	3.532	156	36120	0.01	2.89	0.00	0.02
269.53	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
270.23	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02

270.93	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
271.64	1203.214	3.532	158	36120	0.01	2.89	0.00	0.02
272.34	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
273.04	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
273.74	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
274.45	1203.214	3.532	158	36120	0.01	2.89	0.00	0.02
275.15	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
275.85	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
276.55	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
277.26	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
277.96	1203.217	3.533	156	36119	0.01	2.89	0.00	0.02
278.66	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
279.36	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
280.07	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
280.77	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
281.47	1203.217	3.532	156	36120	0.01	2.89	0.00	0.02
282.18	1203.213	3.533	159	36119	0.01	2.89	0.00	0.02
282.88	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
283.58	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
284.28	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
284.99	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
285.69	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
286.39	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
287.09	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
287.80	1203.217	3.532	156	36120	0.01	2.89	0.00	0.02
288.50	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
289.20	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
289.91	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
290.61	1203.213	3.532	159	36120	0.01	2.89	0.00	0.02
291.31	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02

292.01	1203.215	3.532	157	36120	0.01	2.89	0.00	0.02
292.72	1203.217	3.532	156	36120	0.01	2.89	0.00	0.02
293.42	1203.213	9.178	159	29919	0.01	2.39	0.00	0.02
294.12	1203.213	12.335	159	26451	0.01	2.12	0.00	0.01
294.83	1203.215	12.908	157	25822	0.01	2.07	0.00	0.01
295.53	1203.214	15.357	158	23132	0.01	1.85	0.00	0.01
296.23	1203.213	18.904	159	19236	0.01	1.54	0.00	0.01
296.93	1203.213	21.392	159	16503	0.01	1.32	0.00	0.01
297.64	1203.215	25.498	157	11993	0.01	0.96	0.00	0.01
298.34	1203.214	27.331	158	9979	0.01	0.80	0.00	0.01
299.04	1203.213	29.585	159	7503	0.01	0.60	0.00	0.00
299.74	1203.213	32.994	159	3759	0.01	0.30	0.00	0.00
300.45	1203.215	33.556	157	3141	0.01	0.25	0.00	0.00
301.15	1203.214	34.91	158	1654	0.01	0.13	0.00	0.00
301.85	1203.213	36.009	159	447	0.01	0.04	0.00	0.00
302.56	1203.215	35.475	157	1034	0.01	0.08	0.00	0.00
303.26	1203.217	36.404	156	13	0.01	0.00	0.00	0.00
303.96	1203.213	36.414	159	2	0.01	0.00	0.00	0.00

Table S13. GC data measured after passing a mixed gas with a CO₂/N₂ (10/90) ratio at 50°C through an aerogel support at a flow rate of 20 ml/min.

Time (min/g)	N ₂ area	CO ₂ area	N ₂ adsorption (ppm)	CO ₂ adsorption (ppm)	N ₂ adsorption (ml)	CO ₂ adsorption (ml)	N ₂ adsorption (mmol/g)	CO ₂ adsorption (mmol/g)
Standard	1078.247	94.815	900000	100000	-	-	-	-
0.70	1078.021	4.228	189	95541	0.02	7.64	0.00	0.05
1.41	1077.865	3.123	319	96706	0.03	7.74	0.00	0.05
2.11	1077.296	2.195	794	97685	0.06	7.81	0.00	0.05
2.81	1077.018	2.193	1026	97687	0.08	7.81	0.00	0.05
3.51	1076.996	2.193	1044	97687	0.08	7.81	0.00	0.05
4.21	1076.899	2.193	1125	97687	0.09	7.81	0.00	0.05
4.91	1076.99	2.193	1049	97687	0.08	7.81	0.00	0.05
5.62	1076.991	2.194	1048	97686	0.08	7.81	0.00	0.05
6.32	1076.993	2.193	1047	97687	0.08	7.81	0.00	0.05
7.02	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
7.73	1076.992	2.193	1048	97687	0.08	7.81	0.00	0.05
8.43	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
9.13	1076.991	2.194	1048	97686	0.08	7.81	0.00	0.05
9.83	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
10.53	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
11.23	1076.994	2.191	1046	97689	0.08	7.82	0.00	0.05
11.94	1076.99	2.193	1049	97687	0.08	7.81	0.00	0.05
12.64	1076.989	2.193	1050	97687	0.08	7.81	0.00	0.05
13.34	1076.989	2.193	1050	97687	0.08	7.81	0.00	0.05
14.04	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
14.75	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
15.45	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
16.15	1076.991	2.194	1048	97686	0.08	7.81	0.00	0.05
16.85	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
17.55	1076.994	2.193	1046	97687	0.08	7.81	0.00	0.05

18.26	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
18.96	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
19.66	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
20.36	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
21.07	1076.991	2.192	1048	97688	0.08	7.82	0.00	0.05
21.77	1076.994	2.193	1046	97687	0.08	7.81	0.00	0.05
22.47	1076.99	2.193	1049	97687	0.08	7.81	0.00	0.05
23.17	1076.989	2.193	1050	97687	0.08	7.81	0.00	0.05
23.87	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
24.58	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
25.28	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
25.98	1076.994	2.193	1046	97687	0.08	7.81	0.00	0.05
26.68	1076.99	2.194	1049	97686	0.08	7.81	0.00	0.05
27.39	1076.989	2.193	1050	97687	0.08	7.81	0.00	0.05
28.09	1076.989	2.193	1050	97687	0.08	7.81	0.00	0.05
28.79	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
29.49	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
30.19	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
30.89	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
31.60	1076.994	2.193	1046	97687	0.08	7.81	0.00	0.05
32.30	1076.99	2.193	1049	97687	0.08	7.81	0.00	0.05
33.00	1076.989	2.193	1050	97687	0.08	7.81	0.00	0.05
33.71	1076.991	2.192	1048	97688	0.08	7.82	0.00	0.05
34.41	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
35.11	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
35.81	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
36.52	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
37.21	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
37.92	1076.994	2.193	1046	97687	0.08	7.81	0.00	0.05
38.62	1076.99	2.193	1049	97687	0.08	7.81	0.00	0.05

39.32	1076.989	2.193	1050	97687	0.08	7.81	0.00	0.05
40.03	1076.989	2.193	1050	97687	0.08	7.81	0.00	0.05
40.73	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
41.43	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
42.13	1076.989	2.193	1050	97687	0.08	7.81	0.00	0.05
42.84	1076.991	2.195	1048	97685	0.08	7.81	0.00	0.05
43.54	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
44.24	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
44.94	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
45.65	1076.994	2.193	1046	97687	0.08	7.81	0.00	0.05
46.34	1076.99	2.193	1049	97687	0.08	7.81	0.00	0.05
47.05	1076.989	2.193	1050	97687	0.08	7.81	0.00	0.05
47.75	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
48.45	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
49.16	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
49.86	1076.994	2.193	1046	97687	0.08	7.81	0.00	0.05
50.56	1076.99	2.193	1049	97687	0.08	7.81	0.00	0.05
51.26	1076.989	2.193	1050	97687	0.08	7.81	0.00	0.05
51.97	1076.991	2.192	1048	97688	0.08	7.82	0.00	0.05
52.67	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
53.37	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
54.07	1076.994	2.193	1046	97687	0.08	7.81	0.00	0.05
54.77	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
55.48	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
56.18	1076.991	2.193	1048	97687	0.08	7.81	0.00	0.05
56.88	1076.994	2.193	1046	97687	0.08	7.81	0.00	0.05
57.58	1076.991	2.194	1048	97686	0.08	7.81	0.00	0.05
58.29	1077.384	2.193	720	97687	0.06	7.81	0.00	0.05
58.99	1077.981	2.193	222	97687	0.02	7.81	0.00	0.05
59.69	1078.221	2.193	22	97687	0.00	7.81	0.00	0.05

60.39	1078.243	2.193	3	97687	0.00	7.81	0.00	0.05
61.09	1078.248	2.193	-1	97687	0.00	7.81	0.00	0.05
61.79	1078.247	2.193	0	97687	0.00	7.81	0.00	0.05
62.50	1078.245	49.558	2	47732	0.00	3.82	0.00	0.03
63.20	1078.246	66.871	1	29472	0.00	2.36	0.00	0.02
63.90	1078.247	81.119	0	14445	0.00	1.16	0.00	0.01
64.61	1078.247	90.419	0	4636	0.00	0.37	0.00	0.00
65.31	1078.247	94.814	0	1	0.00	0.00	0.00	0.00

Table S14. GC data measured after passing a mixed gas with a CO₂/N₂ (10/90) ratio at 70°C through an aerogel support at a flow rate of 20 ml/min.

Time (min/g)	N ₂ area	CO ₂ area	N ₂ adsorption (ppm)	CO ₂ adsorption (ppm)	N ₂ adsorption (ml)	CO ₂ adsorption (ml)	N ₂ adsorption (mmol/g)	CO ₂ adsorption (mmol/g)
Standard	1078.247	94.815	900000	100000	-	-	-	-
0.70	1078.219	74.191	23	21752	0.00	1.74	0.00	0.01
1.41	1078.091	57.498	130	39358	0.01	3.15	0.00	0.02
2.11	1077.913	36.162	279	61860	0.02	4.95	0.00	0.03
2.81	1077.816	20.494	360	78385	0.03	6.27	0.00	0.04
3.51	1077.887	17.889	300	81133	0.02	6.49	0.00	0.04
4.22	1077.854	14.292	328	84926	0.03	6.79	0.00	0.05
4.92	1077.866	13.998	318	85237	0.03	6.82	0.00	0.05
5.62	1077.892	13.791	296	85455	0.02	6.84	0.00	0.05
6.33	1077.893	13.694	295	85557	0.02	6.84	0.00	0.05
7.03	1077.891	13.442	297	85823	0.02	6.87	0.00	0.05
7.73	1077.892	13.219	296	86058	0.02	6.88	0.00	0.05
8.43	1077.884	13.096	303	86188	0.02	6.90	0.00	0.05
9.14	1077.831	13.001	347	86288	0.03	6.90	0.00	0.05
9.84	1077.824	12.774	353	86527	0.03	6.92	0.00	0.05
10.54	1077.819	12.694	357	86612	0.03	6.93	0.00	0.05
11.24	1077.815	12.494	361	86823	0.03	6.95	0.00	0.05
11.95	1077.802	12.401	371	86921	0.03	6.95	0.00	0.05
12.65	1077.774	12.385	395	86938	0.03	6.96	0.00	0.05
13.35	1077.751	12.669	414	86638	0.03	6.93	0.00	0.05
14.06	1077.695	12.481	461	86836	0.04	6.95	0.00	0.05
14.76	1077.631	12.402	514	86920	0.04	6.95	0.00	0.05
15.46	1077.523	12.368	604	86956	0.05	6.96	0.00	0.05
16.16	1077.482	12.344	639	86981	0.05	6.96	0.00	0.05
16.87	1077.439	12.272	674	87057	0.05	6.96	0.00	0.05
17.57	1077.394	12.198	712	87135	0.06	6.97	0.00	0.05

18.27	1077.384	12.088	720	87251	0.06	6.98	0.00	0.05
18.98	1077.376	12.009	727	87334	0.06	6.99	0.00	0.05
19.68	1077.351	11.978	748	87367	0.06	6.99	0.00	0.05
20.38	1077.320	11.772	774	87584	0.06	7.01	0.00	0.05
21.08	1077.309	11.704	783	87656	0.06	7.01	0.00	0.05
21.79	1077.274	11.659	812	87703	0.06	7.02	0.00	0.05
22.49	1077.254	11.633	829	87731	0.07	7.02	0.00	0.05
23.19	1077.231	11.594	848	87772	0.07	7.02	0.00	0.05
23.89	1077.228	11.578	851	87789	0.07	7.02	0.00	0.05
24.60	1077.225	11.544	853	87825	0.07	7.03	0.00	0.05
25.30	1077.224	11.41	854	87966	0.07	7.04	0.00	0.05
26.00	1077.223	11.329	855	88051	0.07	7.04	0.00	0.05
26.71	1077.224	11.293	854	88089	0.07	7.05	0.00	0.05
27.41	1077.222	11.257	856	88127	0.07	7.05	0.00	0.05
28.11	1077.224	11.118	854	88274	0.07	7.06	0.00	0.05
28.81	1077.223	11.083	855	88311	0.07	7.06	0.00	0.05
29.52	1077.224	11.009	854	88389	0.07	7.07	0.00	0.05
30.22	1077.222	10.973	856	88427	0.07	7.07	0.00	0.05
30.92	1077.224	10.952	854	88449	0.07	7.08	0.00	0.05
31.63	1077.223	10.919	855	88484	0.07	7.08	0.00	0.05
32.33	1077.221	10.884	856	88521	0.07	7.08	0.00	0.05
33.03	1077.224	10.549	854	88874	0.07	7.11	0.00	0.05
33.73	1077.225	10.444	853	88985	0.07	7.12	0.00	0.05
34.44	1077.222	10.416	856	89014	0.07	7.12	0.00	0.05
35.14	1077.224	10.392	854	89040	0.07	7.12	0.00	0.05
35.84	1077.223	10.384	855	89048	0.07	7.12	0.00	0.05
36.54	1077.224	10.375	854	89058	0.07	7.12	0.00	0.05
37.25	1077.222	10.351	856	89083	0.07	7.13	0.00	0.05
37.95	1077.224	10.34	854	89095	0.07	7.13	0.00	0.05
38.65	1077.223	10.299	855	89138	0.07	7.13	0.00	0.05

39.36	1077.224	10.277	854	89161	0.07	7.13	0.00	0.05
40.06	1077.222	10.249	856	89191	0.07	7.14	0.00	0.05
40.76	1077.224	10.211	854	89231	0.07	7.14	0.00	0.05
41.46	1077.223	10.188	855	89255	0.07	7.14	0.00	0.05
42.17	1077.224	10.158	854	89287	0.07	7.14	0.00	0.05
42.87	1077.222	10.132	856	89314	0.07	7.15	0.00	0.05
43.57	1077.224	10.118	854	89329	0.07	7.15	0.00	0.05
44.28	1077.223	10.094	855	89354	0.07	7.15	0.00	0.05
44.98	1077.224	10.076	854	89373	0.07	7.15	0.00	0.05
45.68	1077.222	10.043	856	89408	0.07	7.15	0.00	0.05
46.38	1077.224	10.025	854	89427	0.07	7.15	0.00	0.05
47.09	1077.223	9.999	855	89454	0.07	7.16	0.00	0.05
47.79	1077.221	9.978	856	89476	0.07	7.16	0.00	0.05
48.49	1077.224	9.953	854	89503	0.07	7.16	0.00	0.05
49.19	1077.225	9.93	853	89527	0.07	7.16	0.00	0.05
49.90	1077.222	9.907	856	89551	0.07	7.16	0.00	0.05
50.60	1077.224	9.891	854	89568	0.07	7.17	0.00	0.05
51.30	1077.223	9.884	855	89575	0.07	7.17	0.00	0.05
52.01	1077.224	9.874	854	89586	0.07	7.17	0.00	0.05
52.71	1077.222	9.868	856	89592	0.07	7.17	0.00	0.05
53.41	1077.224	9.864	854	89597	0.07	7.17	0.00	0.05
54.11	1077.223	9.861	855	89600	0.07	7.17	0.00	0.05
54.82	1077.224	9.859	854	89602	0.07	7.17	0.00	0.05
55.52	1077.222	9.855	856	89606	0.07	7.17	0.00	0.05
56.22	1077.224	9.849	854	89612	0.07	7.17	0.00	0.05
56.93	1077.223	9.847	855	89615	0.07	7.17	0.00	0.05
57.63	1077.224	9.843	854	89619	0.07	7.17	0.00	0.05
58.33	1077.222	9.841	856	89621	0.07	7.17	0.00	0.05
59.03	1077.224	9.839	854	89623	0.07	7.17	0.00	0.05
59.74	1077.223	9.836	855	89626	0.07	7.17	0.00	0.05

60.44	1077.224	9.834	854	89628	0.07	7.17	0.00	0.05
61.14	1077.222	9.83	856	89632	0.07	7.17	0.00	0.05
61.84	1077.224	9.795	854	89669	0.07	7.17	0.00	0.05
62.55	1077.223	9.793	855	89671	0.07	7.17	0.00	0.05
63.25	1077.221	9.79	856	89675	0.07	7.17	0.00	0.05
63.95	1077.224	9.787	854	89678	0.07	7.17	0.00	0.05
64.66	1077.225	9.782	853	89683	0.07	7.17	0.00	0.05
65.36	1077.222	9.777	856	89688	0.07	7.18	0.00	0.05
66.06	1077.224	9.774	854	89692	0.07	7.18	0.00	0.05
66.76	1077.223	9.772	855	89694	0.07	7.18	0.00	0.05
67.47	1077.224	9.775	854	89690	0.07	7.18	0.00	0.05
68.17	1077.222	9.771	856	89695	0.07	7.18	0.00	0.05
68.87	1077.224	9.773	854	89693	0.07	7.18	0.00	0.05
69.58	1077.223	9.774	855	89692	0.07	7.18	0.00	0.05
70.28	1077.224	9.772	854	89694	0.07	7.18	0.00	0.05
70.98	1077.222	9.775	856	89690	0.07	7.18	0.00	0.05
71.68	1077.224	9.774	854	89692	0.07	7.18	0.00	0.05
72.39	1077.223	9.771	855	89695	0.07	7.18	0.00	0.05
73.09	1077.224	9.771	854	89695	0.07	7.18	0.00	0.05
73.79	1077.222	9.773	856	89693	0.07	7.18	0.00	0.05
74.49	1077.224	9.774	854	89692	0.07	7.18	0.00	0.05
75.20	1077.223	9.772	855	89694	0.07	7.18	0.00	0.05
75.90	1077.221	9.775	856	89690	0.07	7.18	0.00	0.05
76.60	1077.224	9.771	854	89695	0.07	7.18	0.00	0.05
77.31	1077.225	9.773	853	89693	0.07	7.18	0.00	0.05
78.01	1077.222	9.774	856	89692	0.07	7.18	0.00	0.05
78.71	1077.224	9.772	854	89694	0.07	7.18	0.00	0.05
79.41	1077.223	9.775	855	89690	0.07	7.18	0.00	0.05
80.12	1077.221	9.774	856	89692	0.07	7.18	0.00	0.05
80.82	1077.224	9.771	854	89695	0.07	7.18	0.00	0.05

81.52	1077.225	9.774	853	89692	0.07	7.18	0.00	0.05
82.23	1077.225	9.771	853	89695	0.07	7.18	0.00	0.05
82.93	1077.224	9.772	854	89694	0.07	7.18	0.00	0.05
83.63	1077.223	9.771	855	89695	0.07	7.18	0.00	0.05
84.33	1077.224	9.773	854	89693	0.07	7.18	0.00	0.05
85.04	1077.222	9.774	856	89692	0.07	7.18	0.00	0.05
85.74	1077.224	9.772	854	89694	0.07	7.18	0.00	0.05
86.44	1077.223	9.775	855	89690	0.07	7.18	0.00	0.05
87.14	1077.224	9.771	854	89695	0.07	7.18	0.00	0.05
87.85	1077.222	9.773	856	89693	0.07	7.18	0.00	0.05
88.55	1077.224	9.774	854	89692	0.07	7.18	0.00	0.05
89.25	1077.223	9.772	855	89694	0.07	7.18	0.00	0.05
89.96	1077.221	9.775	856	89690	0.07	7.18	0.00	0.05
90.66	1077.224	9.774	854	89692	0.07	7.18	0.00	0.05
91.36	1077.225	9.771	853	89695	0.07	7.18	0.00	0.05
92.06	1077.222	9.771	856	89695	0.07	7.18	0.00	0.05
92.77	1077.224	9.773	854	89693	0.07	7.18	0.00	0.05
93.47	1077.223	9.774	855	89692	0.07	7.18	0.00	0.05
94.17	1077.224	9.772	854	89694	0.07	7.18	0.00	0.05
94.88	1077.222	9.774	856	89692	0.07	7.18	0.00	0.05
95.58	1077.224	9.771	854	89695	0.07	7.18	0.00	0.05
96.28	1077.223	9.772	855	89694	0.07	7.18	0.00	0.05
96.98	1077.224	9.771	854	89695	0.07	7.18	0.00	0.05
97.69	1077.222	9.773	856	89693	0.07	7.18	0.00	0.05
98.39	1077.224	9.774	854	89692	0.07	7.18	0.00	0.05
99.09	1077.223	9.772	855	89694	0.07	7.18	0.00	0.05
99.79	1077.221	9.775	856	89690	0.07	7.18	0.00	0.05
100.50	1077.224	9.771	854	89695	0.07	7.18	0.00	0.05
101.20	1077.225	9.773	853	89693	0.07	7.18	0.00	0.05
101.90	1077.222	9.774	856	89692	0.07	7.18	0.00	0.05

102.61	1077.224	9.772	854	89694	0.07	7.18	0.00	0.05
103.31	1077.223	9.775	855	89690	0.07	7.18	0.00	0.05
104.01	1077.223	9.774	855	89692	0.07	7.18	0.00	0.05
104.71	1077.224	9.771	854	89695	0.07	7.18	0.00	0.05
105.42	1077.222	9.771	856	89695	0.07	7.18	0.00	0.05
106.12	1077.224	9.773	854	89693	0.07	7.18	0.00	0.05
106.82	1077.223	9.774	855	89692	0.07	7.18	0.00	0.05
107.53	1077.224	9.772	854	89694	0.07	7.18	0.00	0.05
108.23	1077.222	9.775	856	89690	0.07	7.18	0.00	0.05
108.93	1077.224	9.771	854	89695	0.07	7.18	0.00	0.05
109.63	1077.223	9.773	855	89693	0.07	7.18	0.00	0.05
110.34	1077.221	9.774	856	89692	0.07	7.18	0.00	0.05
111.04	1077.224	9.772	854	89694	0.07	7.18	0.00	0.05
111.74	1077.225	9.774	853	89692	0.07	7.18	0.00	0.05
112.44	1077.222	9.771	856	89695	0.07	7.18	0.00	0.05
113.15	1077.224	9.772	854	89694	0.07	7.18	0.00	0.05
113.85	1077.223	9.771	855	89695	0.07	7.18	0.00	0.05
114.55	1077.223	9.773	855	89693	0.07	7.18	0.00	0.05
115.26	1077.224	9.774	854	89692	0.07	7.18	0.00	0.05
115.96	1077.222	9.772	856	89694	0.07	7.18	0.00	0.05
116.66	1077.224	9.775	854	89690	0.07	7.18	0.00	0.05
117.36	1077.223	9.771	855	89695	0.07	7.18	0.00	0.05
118.07	1077.224	9.773	854	89693	0.07	7.18	0.00	0.05
118.77	1077.222	9.774	856	89692	0.07	7.18	0.00	0.05
119.47	1077.224	9.772	854	89694	0.07	7.18	0.00	0.05
120.18	1077.223	9.775	855	89690	0.07	7.18	0.00	0.05
120.88	1077.221	9.774	856	89692	0.07	7.18	0.00	0.05
121.58	1077.224	9.771	854	89695	0.07	7.18	0.00	0.05
122.28	1077.225	9.771	853	89695	0.07	7.18	0.00	0.05
122.99	1077.222	9.774	856	89692	0.07	7.18	0.00	0.05

123.69	1077.224	9.771	854	89695	0.07	7.18	0.00	0.05
124.39	1077.223	9.772	855	89694	0.07	7.18	0.00	0.05
125.09	1077.224	9.771	854	89695	0.07	7.18	0.00	0.05
125.80	1077.222	9.773	856	89693	0.07	7.18	0.00	0.05
126.50	1077.224	9.774	854	89692	0.07	7.18	0.00	0.05
127.20	1077.223	9.772	855	89694	0.07	7.18	0.00	0.05
127.91	1077.224	9.775	854	89690	0.07	7.18	0.00	0.05
128.61	1077.222	9.771	856	89695	0.07	7.18	0.00	0.05
129.31	1077.224	9.773	854	89693	0.07	7.18	0.00	0.05
130.01	1077.223	9.774	855	89692	0.07	7.18	0.00	0.05
130.72	1077.221	9.772	856	89694	0.07	7.18	0.00	0.05
131.42	1077.224	9.775	854	89690	0.07	7.18	0.00	0.05
132.12	1077.225	9.774	853	89692	0.07	7.18	0.00	0.05
132.83	1077.222	9.774	856	89692	0.07	7.18	0.00	0.05
133.53	1077.224	9.771	854	89695	0.07	7.18	0.00	0.05
134.23	1077.223	9.772	855	89694	0.07	7.18	0.00	0.05
134.93	1077.223	9.771	855	89695	0.07	7.18	0.00	0.05
135.64	1077.224	9.773	854	89693	0.07	7.18	0.00	0.05
136.34	1077.222	9.774	856	89692	0.07	7.18	0.00	0.05
137.04	1077.224	9.772	854	89694	0.07	7.18	0.00	0.05
137.74	1077.223	9.775	855	89690	0.07	7.18	0.00	0.05
138.45	1077.224	9.771	854	89695	0.07	7.18	0.00	0.05
139.15	1077.222	9.773	856	89693	0.07	7.18	0.00	0.05
139.85	1077.224	9.774	854	89692	0.07	7.18	0.00	0.05
140.56	1077.223	9.772	855	89694	0.07	7.18	0.00	0.05
141.26	1077.221	9.775	856	89690	0.07	7.18	0.00	0.05
141.96	1077.224	9.774	854	89692	0.07	7.18	0.00	0.05
142.66	1077.225	9.771	853	89695	0.07	7.18	0.00	0.05
143.37	1077.222	9.771	856	89695	0.07	7.18	0.00	0.05
144.07	1077.224	9.773	854	89693	0.07	7.18	0.00	0.05

144.77	1077.223	9.774	855	89692	0.07	7.18	0.00	0.05
145.48	1077.224	9.772	854	89694	0.07	7.18	0.00	0.05
146.18	1077.222	9.775	856	89690	0.07	7.18	0.00	0.05
146.88	1077.224	9.774	854	89692	0.07	7.18	0.00	0.05
147.58	1077.223	9.771	855	89695	0.07	7.18	0.00	0.05
148.29	1077.224	9.772	854	89694	0.07	7.18	0.00	0.05
148.99	1077.222	9.771	856	89695	0.07	7.18	0.00	0.05
149.69	1077.224	9.773	854	89693	0.07	7.18	0.00	0.05
150.39	1077.223	9.774	855	89692	0.07	7.18	0.00	0.05
151.10	1077.221	9.772	856	89694	0.07	7.18	0.00	0.05
151.80	1077.224	9.775	854	89690	0.07	7.18	0.00	0.05
152.50	1077.225	9.771	853	89695	0.07	7.18	0.00	0.05
153.21	1077.222	9.773	856	89693	0.07	7.18	0.00	0.05
153.91	1077.224	9.774	854	89692	0.07	7.18	0.00	0.05
154.61	1077.223	9.772	855	89694	0.07	7.18	0.00	0.05
155.31	1077.223	9.775	855	89690	0.07	7.18	0.00	0.05
156.02	1077.224	9.774	854	89692	0.07	7.18	0.00	0.05
156.72	1077.222	9.771	856	89695	0.07	7.18	0.00	0.05
157.42	1077.224	9.771	854	89695	0.07	7.18	0.00	0.05
158.13	1077.223	9.773	855	89693	0.07	7.18	0.00	0.05
158.83	1077.224	9.774	854	89692	0.07	7.18	0.00	0.05
159.53	1077.222	9.772	856	89694	0.07	7.18	0.00	0.05
160.23	1077.224	9.775	854	89690	0.07	7.18	0.00	0.05
160.94	1077.223	9.771	855	89695	0.07	7.18	0.00	0.05
161.64	1077.221	9.773	856	89693	0.07	7.18	0.00	0.05
162.34	1077.223	9.774	855	89692	0.07	7.18	0.00	0.05
163.04	1077.224	9.771	854	89695	0.07	7.18	0.00	0.05
163.75	1077.222	9.772	856	89694	0.07	7.18	0.00	0.05
164.45	1077.224	9.771	854	89695	0.07	7.18	0.00	0.05
165.15	1077.223	9.773	855	89693	0.07	7.18	0.00	0.05

165.86	1077.224	9.774	854	89692	0.07	7.18	0.00	0.05
166.56	1077.222	9.772	856	89694	0.07	7.18	0.00	0.05
167.26	1077.224	9.775	854	89690	0.07	7.18	0.00	0.05
167.96	1077.223	9.771	855	89695	0.07	7.18	0.00	0.05
168.67	1077.221	9.773	856	89693	0.07	7.18	0.00	0.05
169.37	1077.224	9.774	854	89692	0.07	7.18	0.00	0.05
170.07	1077.225	9.772	853	89694	0.07	7.18	0.00	0.05
170.78	1077.222	9.775	856	89690	0.07	7.18	0.00	0.05
171.48	1077.224	9.774	854	89692	0.07	7.18	0.00	0.05
172.18	1077.223	9.772	855	89694	0.07	7.18	0.00	0.05
172.88	1077.221	9.775	856	89690	0.07	7.18	0.00	0.05
173.59	1077.401	9.774	706	89692	0.06	7.18	0.00	0.05
174.29	1077.512	9.771	613	89695	0.05	7.18	0.00	0.05
174.99	1077.892	9.772	296	89694	0.02	7.18	0.00	0.05
175.69	1078.014	9.773	194	89693	0.02	7.18	0.00	0.05
176.40	1078.221	47.397	22	50011	0.00	4.00	0.00	0.03
177.10	1078.245	65.19	2	31245	0.00	2.50	0.00	0.02
177.80	1078.247	74.821	0	21087	0.00	1.69	0.00	0.01
178.51	1078.249	91.114	-2	3903	0.00	0.31	0.00	0.00
179.21	1078.246	94.338	1	503	0.00	0.04	0.00	0.00
179.91	1078.247	94.584	0	244	0.00	0.02	0.00	0.00
180.61	1078.245	94.809	2	6	0.00	0.00	0.00	0.00
181.32	1078.245	94.812	2	3	0.00	0.00	0.00	0.00
182.02	1078.248	94.815	-1	0	0.00	0.00	0.00	0.00

Table S15. GC data measured after passing a mixed gas with a CO₂/N₂ (10/90) ratio at 100°C through an aerogel support at a flow rate of 20 ml/min.

Time (min/g)	N ₂ area	CO ₂ area	N ₂ adsorption (ppm)	CO ₂ adsorption (ppm)	N ₂ adsorption (ml)	CO ₂ adsorption (ml)	N ₂ adsorption (mmol/g)	CO ₂ adsorption (mmol/g)
Standard	1078.247	94.815	900000	100000	-	-	-	-
0.70	1078.221	33.194	22	64991	0.00	5.20	0.00	0.04
1.41	1078.214	26.441	28	72113	0.00	5.77	0.00	0.04
2.11	1078.209	20.395	32	78490	0.00	6.28	0.00	0.04
2.81	1078.211	15.867	30	83265	0.00	6.66	0.00	0.05
3.51	1078.205	13.451	35	85813	0.00	6.87	0.00	0.05
4.21	1078.198	12.934	41	86359	0.00	6.91	0.00	0.05
4.91	1078.199	12.899	40	86396	0.00	6.91	0.00	0.05
5.62	1078.141	12.78	88	86521	0.01	6.92	0.00	0.05
6.32	1078.128	12.596	99	86715	0.01	6.94	0.00	0.05
7.02	1078.099	12.412	124	86909	0.01	6.95	0.00	0.05
7.73	1078.034	12.335	178	86990	0.01	6.96	0.00	0.05
8.43	1078.015	12.219	194	87113	0.02	6.97	0.00	0.05
9.13	1077.991	12.097	214	87241	0.02	6.98	0.00	0.05
9.83	1077.995	11.998	210	87346	0.02	6.99	0.00	0.05
10.54	1077.989	11.864	215	87487	0.02	7.00	0.00	0.05
11.24	1077.979	11.843	224	87509	0.02	7.00	0.00	0.05
11.94	1077.956	11.79	243	87565	0.02	7.01	0.00	0.05
12.64	1077.961	11.742	239	87616	0.02	7.01	0.00	0.05
13.34	1077.993	11.709	212	87651	0.02	7.01	0.00	0.05
14.04	1077.996	11.675	210	87687	0.02	7.01	0.00	0.05
14.75	1077.997	11.628	209	87736	0.02	7.02	0.00	0.05
15.45	1077.997	11.569	209	87798	0.02	7.02	0.00	0.05
16.15	1077.996	11.504	210	87867	0.02	7.03	0.00	0.05
16.86	1077.998	11.439	208	87935	0.02	7.03	0.00	0.05
17.56	1077.997	11.335	209	88045	0.02	7.04	0.00	0.05

18.26	1077.997	11.219	209	88167	0.02	7.05	0.00	0.05
18.96	1077.997	11.394	209	87983	0.02	7.04	0.00	0.05
19.67	1077.999	10.276	207	89162	0.02	7.13	0.00	0.05
20.37	1077.997	9.887	209	89572	0.02	7.17	0.00	0.05
21.07	1077.996	9.588	210	89888	0.02	7.19	0.00	0.05
21.78	1077.996	9.504	210	89976	0.02	7.20	0.00	0.05
22.48	1077.997	9.366	209	90122	0.02	7.21	0.00	0.05
23.18	1077.997	9.317	209	90173	0.02	7.21	0.00	0.05
23.88	1077.996	9.279	210	90214	0.02	7.22	0.00	0.05
24.59	1077.998	9.245	208	90249	0.02	7.22	0.00	0.05
25.29	1077.997	9.222	209	90274	0.02	7.22	0.00	0.05
25.99	1077.997	9.1	209	90402	0.02	7.23	0.00	0.05
26.69	1077.996	8.948	210	90563	0.02	7.25	0.00	0.05
27.40	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
28.10	1077.997	8.945	209	90566	0.02	7.25	0.00	0.05
28.80	1077.996	8.941	210	90570	0.02	7.25	0.00	0.05
29.51	1077.998	8.942	208	90569	0.02	7.25	0.00	0.05
30.20	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
30.91	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
31.61	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
32.31	1077.999	8.944	207	90567	0.02	7.25	0.00	0.05
33.01	1077.996	8.945	210	90566	0.02	7.25	0.00	0.05
33.72	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
34.42	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
35.12	1077.996	8.942	210	90569	0.02	7.25	0.00	0.05
35.83	1077.998	8.943	208	90568	0.02	7.25	0.00	0.05
36.53	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
37.23	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
37.93	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
38.64	1077.999	8.944	207	90567	0.02	7.25	0.00	0.05

39.34	1077.997	8.945	209	90566	0.02	7.25	0.00	0.05
40.04	1077.996	8.943	210	90568	0.02	7.25	0.00	0.05
40.74	1077.998	8.943	208	90568	0.02	7.25	0.00	0.05
41.45	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
42.15	1077.997	8.944	209	90567	0.02	7.25	0.00	0.05
42.85	1077.996	8.945	210	90566	0.02	7.25	0.00	0.05
43.56	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
44.26	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
44.96	1077.996	8.943	210	90568	0.02	7.25	0.00	0.05
45.66	1077.998	8.943	208	90568	0.02	7.25	0.00	0.05
46.37	1077.997	8.944	209	90567	0.02	7.25	0.00	0.05
47.07	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
47.77	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
48.48	1077.999	8.943	207	90568	0.02	7.25	0.00	0.05
49.17	1077.996	8.944	210	90567	0.02	7.25	0.00	0.05
49.88	1077.997	8.945	209	90566	0.02	7.25	0.00	0.05
50.58	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
51.28	1077.996	8.943	210	90568	0.02	7.25	0.00	0.05
51.98	1077.996	8.943	210	90568	0.02	7.25	0.00	0.05
52.69	1077.998	8.943	208	90568	0.02	7.25	0.00	0.05
53.39	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
54.09	1077.997	8.944	209	90567	0.02	7.25	0.00	0.05
54.79	1077.996	8.945	210	90566	0.02	7.25	0.00	0.05
55.49	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
56.19	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
56.90	1077.996	8.943	210	90568	0.02	7.25	0.00	0.05
57.60	1077.998	8.943	208	90568	0.02	7.25	0.00	0.05
58.30	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
59.01	1077.997	8.944	209	90567	0.02	7.25	0.00	0.05
59.71	1077.997	8.945	209	90566	0.02	7.25	0.00	0.05

60.41	1077.999	8.943	207	90568	0.02	7.25	0.00	0.05
61.11	1077.996	8.943	210	90568	0.02	7.25	0.00	0.05
61.82	1077.996	8.943	210	90568	0.02	7.25	0.00	0.05
62.52	1077.998	8.944	208	90567	0.02	7.25	0.00	0.05
63.22	1077.997	8.945	209	90566	0.02	7.25	0.00	0.05
63.93	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
64.63	1077.996	8.943	210	90568	0.02	7.25	0.00	0.05
65.33	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
66.03	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
66.74	1077.996	8.943	210	90568	0.02	7.25	0.00	0.05
67.44	1077.998	8.943	208	90568	0.02	7.25	0.00	0.05
68.14	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
68.84	1077.997	8.944	209	90567	0.02	7.25	0.00	0.05
69.55	1077.997	8.945	209	90566	0.02	7.25	0.00	0.05
70.25	1077.999	8.943	207	90568	0.02	7.25	0.00	0.05
70.95	1077.996	8.943	210	90568	0.02	7.25	0.00	0.05
71.66	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
72.36	1077.997	8.944	209	90567	0.02	7.25	0.00	0.05
73.06	1077.996	8.945	210	90566	0.02	7.25	0.00	0.05
73.76	1077.996	8.943	210	90568	0.02	7.25	0.00	0.05
74.47	1077.998	8.943	208	90568	0.02	7.25	0.00	0.05
75.17	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
75.87	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
76.58	1077.996	8.944	210	90567	0.02	7.25	0.00	0.05
77.28	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
77.98	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
78.68	1077.996	8.943	210	90568	0.02	7.25	0.00	0.05
79.39	1077.998	8.944	208	90567	0.02	7.25	0.00	0.05
80.08	1077.997	8.945	209	90566	0.02	7.25	0.00	0.05
80.79	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05

81.49	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
82.19	1077.999	8.943	207	90568	0.02	7.25	0.00	0.05
82.89	1077.996	8.944	210	90567	0.02	7.25	0.00	0.05
83.60	1077.996	8.945	210	90566	0.02	7.25	0.00	0.05
84.30	1077.998	8.943	208	90568	0.02	7.25	0.00	0.05
85.00	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
85.70	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
86.40	1077.996	8.943	210	90568	0.02	7.25	0.00	0.05
87.11	1077.997	8.944	209	90567	0.02	7.25	0.00	0.05
87.81	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
88.51	1077.996	8.943	210	90568	0.02	7.25	0.00	0.05
89.21	1077.998	8.943	208	90568	0.02	7.25	0.00	0.05
89.92	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
90.62	1077.997	8.944	209	90567	0.02	7.25	0.00	0.05
91.32	1077.997	8.945	209	90566	0.02	7.25	0.00	0.05
92.02	1077.996	8.943	210	90568	0.02	7.25	0.00	0.05
92.72	1077.998	8.943	208	90568	0.02	7.25	0.00	0.05
93.43	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
94.13	1077.997	8.944	209	90567	0.02	7.25	0.00	0.05
94.83	1077.996	8.945	210	90566	0.02	7.25	0.00	0.05
95.53	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
96.24	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
96.94	1077.996	8.943	210	90568	0.02	7.25	0.00	0.05
97.64	1077.998	8.943	208	90568	0.02	7.25	0.00	0.05
98.34	1077.997	8.944	209	90567	0.02	7.25	0.00	0.05
99.05	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
99.75	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
100.45	1077.999	8.943	207	90568	0.02	7.25	0.00	0.05
101.16	1077.996	8.943	210	90568	0.02	7.25	0.00	0.05
101.86	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05

102.56	1077.997	8.944	209	90567	0.02	7.25	0.00	0.05
103.26	1077.996	8.945	210	90566	0.02	7.25	0.00	0.05
103.97	1077.998	8.943	208	90568	0.02	7.25	0.00	0.05
104.67	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
105.37	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
106.08	1077.996	8.943	210	90568	0.02	7.25	0.00	0.05
106.78	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
107.48	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
108.18	1077.996	8.944	210	90567	0.02	7.25	0.00	0.05
108.89	1077.998	8.945	208	90566	0.02	7.25	0.00	0.05
109.59	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
110.29	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
110.99	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
111.70	1077.999	8.944	207	90567	0.02	7.25	0.00	0.05
112.40	1077.996	8.945	210	90566	0.02	7.25	0.00	0.05
113.10	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
113.81	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
114.51	1077.996	8.943	210	90568	0.02	7.25	0.00	0.05
115.21	1077.998	8.943	208	90568	0.02	7.25	0.00	0.05
115.91	1077.997	8.944	209	90567	0.02	7.25	0.00	0.05
116.62	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
117.32	1077.996	8.943	210	90568	0.02	7.25	0.00	0.05
118.02	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
118.73	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
119.42	1077.996	8.943	210	90568	0.02	7.25	0.00	0.05
120.13	1077.998	8.944	208	90567	0.02	7.25	0.00	0.05
120.83	1077.997	8.945	209	90566	0.02	7.25	0.00	0.05
121.53	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
122.23	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
122.94	1077.996	8.943	210	90568	0.02	7.25	0.00	0.05

123.64	1077.998	8.944	208	90567	0.02	7.25	0.00	0.05
124.34	1077.997	8.945	209	90566	0.02	7.25	0.00	0.05
125.04	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
125.75	1077.996	8.943	210	90568	0.02	7.25	0.00	0.05
126.45	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
127.15	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
127.86	1077.996	8.943	210	90568	0.02	7.25	0.00	0.05
128.56	1077.998	8.944	208	90567	0.02	7.25	0.00	0.05
129.26	1077.997	8.945	209	90566	0.02	7.25	0.00	0.05
129.96	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
130.67	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
131.37	1077.999	8.943	207	90568	0.02	7.25	0.00	0.05
132.07	1077.996	8.944	210	90567	0.02	7.25	0.00	0.05
132.78	1077.997	8.945	209	90566	0.02	7.25	0.00	0.05
133.48	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
134.18	1077.996	8.943	210	90568	0.02	7.25	0.00	0.05
134.88	1077.998	8.943	208	90568	0.02	7.25	0.00	0.05
135.59	1077.997	8.943	209	90568	0.02	7.25	0.00	0.05
136.29	1077.997	8.944	209	90567	0.02	7.25	0.00	0.05
136.99	1078.002	8.943	204	90568	0.02	7.25	0.00	0.05
137.69	1077.103	8.944	955	90567	0.08	7.25	0.00	0.05
138.40	1078.179	33.493	57	64675	0.00	5.17	0.00	0.04
139.10	1078.204	71.194	36	24913	0.00	1.99	0.00	0.01
139.80	1078.245	88.449	2	6714	0.00	0.54	0.00	0.00
140.51	1078.247	91.325	0	3681	0.00	0.29	0.00	0.00
141.21	1078.245	93.49	2	1397	0.00	0.11	0.00	0.00
141.91	1078.247	94.095	0	759	0.00	0.06	0.00	0.00
142.61	1078.246	94.317	1	525	0.00	0.04	0.00	0.00
143.32	1078.247	94.554	0	275	0.00	0.02	0.00	0.00
144.02	1078.245	94.807	2	8	0.00	0.00	0.00	0.00

144.72	1078.246	94.813	1	2	0.00	0.00	0.00	0.00
145.43	1078.245	94.815	2	0	0.00	0.00	0.00	0.00

Table S16. GC data measured after passing a mixed gas with a CO₂/N₂ (15/85) ratio at 50°C through an aerogel support at a flow rate of 20 ml/min.

Time (min/g)	N ₂ area	CO ₂ area	N ₂ adsorption (ppm)	CO ₂ adsorption (ppm)	N ₂ adsorption (ml)	CO ₂ adsorption (ml)	N ₂ adsorption (mmol/g)	CO ₂ adsorption (mmol/g)
Standard	1107.164	132.653	850000	150000	-	-	-	-
0.70	1105.561	6.833	1231	142273	0.10	11.38	0.00	0.08
1.41	1105.586	5.924	1211	143301	0.10	11.46	0.00	0.08
2.11	1105.557	5.924	1234	143301	0.10	11.46	0.00	0.08
2.81	1105.583	5.924	1214	143301	0.10	11.46	0.00	0.08
3.51	1105.791	5.924	1054	143301	0.08	11.46	0.00	0.08
4.22	1105.783	5.924	1060	143301	0.08	11.46	0.00	0.08
4.92	1105.788	5.924	1056	143301	0.08	11.46	0.00	0.08
5.62	1105.786	5.923	1058	143302	0.08	11.46	0.00	0.08
6.32	1105.786	5.924	1058	143301	0.08	11.46	0.00	0.08
7.02	1105.788	5.924	1056	143301	0.08	11.46	0.00	0.08
7.73	1105.788	5.924	1056	143301	0.08	11.46	0.00	0.08
8.43	1105.786	5.925	1058	143300	0.08	11.46	0.00	0.08
9.13	1105.786	5.924	1058	143301	0.08	11.46	0.00	0.08
9.83	1105.788	5.924	1056	143301	0.08	11.46	0.00	0.08
10.53	1105.787	5.923	1057	143302	0.08	11.46	0.00	0.08
11.23	1105.786	5.924	1058	143301	0.08	11.46	0.00	0.08
11.94	1105.788	5.924	1056	143301	0.08	11.46	0.00	0.08
12.64	1105.788	5.923	1056	143302	0.08	11.46	0.00	0.08
13.34	1105.786	5.924	1058	143301	0.08	11.46	0.00	0.08
14.04	1105.786	5.924	1058	143301	0.08	11.46	0.00	0.08
14.75	1105.788	5.924	1056	143301	0.08	11.46	0.00	0.08
15.44	1105.788	5.925	1056	143300	0.08	11.46	0.00	0.08
16.15	1105.786	5.924	1058	143301	0.08	11.46	0.00	0.08
16.85	1105.786	5.924	1058	143301	0.08	11.46	0.00	0.08
17.55	1105.788	5.923	1056	143302	0.08	11.46	0.00	0.08

18.26	1105.788	5.924	1056	143301	0.08	11.46	0.00	0.08
18.96	1105.786	5.924	1058	143301	0.08	11.46	0.00	0.08
19.66	1105.786	5.924	1058	143301	0.08	11.46	0.00	0.08
20.36	1105.788	5.923	1056	143302	0.08	11.46	0.00	0.08
21.07	1105.788	5.924	1056	143301	0.08	11.46	0.00	0.08
21.77	1105.788	5.924	1056	143301	0.08	11.46	0.00	0.08
22.47	1105.786	5.924	1058	143301	0.08	11.46	0.00	0.08
23.17	1105.786	5.925	1058	143300	0.08	11.46	0.00	0.08
23.87	1105.788	5.924	1056	143301	0.08	11.46	0.00	0.08
24.58	1105.788	5.924	1056	143301	0.08	11.46	0.00	0.08
25.28	1105.788	5.923	1056	143302	0.08	11.46	0.00	0.08
25.98	1105.786	5.924	1058	143301	0.08	11.46	0.00	0.08
26.68	1105.786	5.923	1058	143302	0.08	11.46	0.00	0.08
27.39	1105.788	5.924	1056	143301	0.08	11.46	0.00	0.08
28.09	1105.787	5.924	1057	143301	0.08	11.46	0.00	0.08
28.79	1105.786	5.924	1058	143301	0.08	11.46	0.00	0.08
29.49	1105.788	5.925	1056	143300	0.08	11.46	0.00	0.08
30.20	1105.788	5.924	1056	143301	0.08	11.46	0.00	0.08
30.89	1105.786	5.924	1058	143301	0.08	11.46	0.00	0.08
31.60	1105.786	5.923	1058	143302	0.08	11.46	0.00	0.08
32.30	1105.788	5.924	1056	143301	0.08	11.46	0.00	0.08
33.00	1105.788	5.923	1056	143302	0.08	11.46	0.00	0.08
33.71	1105.788	5.924	1056	143301	0.08	11.46	0.00	0.08
34.41	1105.786	5.923	1058	143302	0.08	11.46	0.00	0.08
35.11	1105.788	5.924	1056	143301	0.08	11.46	0.00	0.08
35.81	1105.788	5.924	1056	143301	0.08	11.46	0.00	0.08
36.51	1105.786	5.924	1058	143301	0.08	11.46	0.00	0.08
37.21	1105.786	5.925	1058	143300	0.08	11.46	0.00	0.08
37.92	1105.788	5.923	1056	143302	0.08	11.46	0.00	0.08
38.62	1105.788	5.924	1056	143301	0.08	11.46	0.00	0.08

39.32	1105.788	5.923	1056	143302	0.08	11.46	0.00	0.08
40.03	1105.786	5.924	1058	143301	0.08	11.46	0.00	0.08
40.73	1105.786	5.924	1058	143301	0.08	11.46	0.00	0.08
41.43	1105.788	5.923	1056	143302	0.08	11.46	0.00	0.08
42.13	1105.788	5.924	1056	143301	0.08	11.46	0.00	0.08
42.83	1105.786	5.923	1058	143302	0.08	11.46	0.00	0.08
43.53	1105.786	5.924	1058	143301	0.08	11.46	0.00	0.08
44.24	1105.788	5.924	1056	143301	0.08	11.46	0.00	0.08
44.94	1106.092	5.924	823	143301	0.07	11.46	0.00	0.08
45.64	1106.375	5.925	606	143300	0.05	11.46	0.00	0.08
46.34	1106.81	37.848	272	107203	0.02	8.58	0.00	0.06
47.05	1106.937	61.881	174	80027	0.01	6.40	0.00	0.04
47.74	1107.161	85.295	2	53551	0.00	4.28	0.00	0.03
48.45	1107.163	112.884	1	22354	0.00	1.79	0.00	0.01
49.15	1107.163	130.296	1	2665	0.00	0.21	0.00	0.00
49.85	1107.164	132.651	0	2	0.00	0.00	0.00	0.00

Table S17. GC data measured after passing a mixed gas with a CO₂/N₂ (15/85) ratio at 70°C through an aerogel support at a flow rate of 20 ml/min.

Time (min/g)	N ₂ area	CO ₂ area	N ₂ adsorption (ppm)	CO ₂ adsorption (ppm)	N ₂ adsorption (ml)	CO ₂ adsorption (ml)	N ₂ adsorption (mmol/g)	CO ₂ adsorption (mmol/g)
Standard	1107.164	132.653	850000	150000	-	-	-	-
0.17	1107.101	107.118	48	28874	0.00	0.58	0.00	0.00
0.70	1107.121	81.769	33	57538	0.00	4.60	0.00	0.03
1.41	1106.995	55.714	130	87000	0.01	6.96	0.00	0.05
2.10	1106.902	43.227	201	101120	0.02	8.09	0.00	0.06
2.81	1106.899	34.914	203	110520	0.02	8.84	0.00	0.06
3.51	1106.871	27.386	225	119033	0.02	9.52	0.00	0.07
4.21	1106.833	21.44	254	125756	0.02	10.06	0.00	0.07
4.91	1106.806	17.761	275	129916	0.02	10.39	0.00	0.07
5.62	1106.767	15.363	305	132628	0.02	10.61	0.00	0.07
6.31	1106.741	14.096	325	134061	0.03	10.72	0.00	0.07
7.02	1106.7	13.281	356	134982	0.03	10.80	0.00	0.07
7.72	1106.595	12.83	437	135492	0.03	10.84	0.00	0.07
8.42	1106.571	12.189	455	136217	0.04	10.90	0.00	0.08
9.13	1106.504	11.861	507	136588	0.04	10.93	0.00	0.08
9.83	1106.449	11.588	549	136897	0.04	10.95	0.00	0.08
10.53	1106.407	11.211	581	137323	0.05	10.99	0.00	0.08
11.23	1106.318	12.009	649	136421	0.05	10.91	0.00	0.08
11.94	1106.242	11.568	708	136919	0.06	10.95	0.00	0.08
12.64	1106.178	11.513	757	136981	0.06	10.96	0.00	0.08
13.34	1106.005	11.171	890	137368	0.07	10.99	0.00	0.08
14.04	1105.988	10.935	903	137635	0.07	11.01	0.00	0.08
14.74	1105.957	10.672	927	137932	0.07	11.03	0.00	0.08
15.44	1105.963	10.383	922	138259	0.07	11.06	0.00	0.08
16.15	1105.959	10.087	925	138594	0.07	11.09	0.00	0.08
16.85	1105.889	9.784	979	138937	0.08	11.11	0.00	0.08

17.55	1105.863	9.592	999	139154	0.08	11.13	0.00	0.08
18.25	1105.887	9.483	980	139277	0.08	11.14	0.00	0.08
18.95	1105.851	9.179	1008	139621	0.08	11.17	0.00	0.08
19.66	1105.848	8.854	1010	139988	0.08	11.20	0.00	0.08
20.36	1105.887	8.419	980	140480	0.08	11.24	0.00	0.08
21.06	1105.889	8.219	979	140706	0.08	11.26	0.00	0.08
21.76	1105.886	8.118	981	140820	0.08	11.27	0.00	0.08
22.47	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
23.17	1105.889	8.113	979	140826	0.08	11.27	0.00	0.08
23.87	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
24.58	1105.889	8.115	979	140824	0.08	11.27	0.00	0.08
25.27	1105.888	8.116	980	140823	0.08	11.27	0.00	0.08
25.98	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
26.68	1105.889	8.112	979	140827	0.08	11.27	0.00	0.08
27.38	1105.886	8.113	981	140826	0.08	11.27	0.00	0.08
28.08	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
28.79	1105.887	8.111	980	140828	0.08	11.27	0.00	0.08
29.49	1105.887	8.114	980	140825	0.08	11.27	0.00	0.08
30.19	1105.889	8.113	979	140826	0.08	11.27	0.00	0.08
30.89	1105.889	8.113	979	140826	0.08	11.27	0.00	0.08
31.59	1105.888	8.113	980	140826	0.08	11.27	0.00	0.08
32.29	1105.886	8.113	981	140826	0.08	11.27	0.00	0.08
33.00	1105.887	8.115	980	140824	0.08	11.27	0.00	0.08
33.70	1105.887	8.116	980	140823	0.08	11.27	0.00	0.08
34.40	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
35.11	1105.886	8.113	981	140826	0.08	11.27	0.00	0.08
35.81	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
36.51	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
37.21	1105.886	8.115	981	140824	0.08	11.27	0.00	0.08
37.91	1105.887	8.116	980	140823	0.08	11.27	0.00	0.08

38.61	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
39.32	1105.887	8.112	980	140827	0.08	11.27	0.00	0.08
40.02	1105.889	8.113	979	140826	0.08	11.27	0.00	0.08
40.72	1105.889	8.113	979	140826	0.08	11.27	0.00	0.08
41.43	1105.888	8.111	980	140828	0.08	11.27	0.00	0.08
42.13	1105.887	8.114	980	140825	0.08	11.27	0.00	0.08
42.83	1105.889	8.113	979	140826	0.08	11.27	0.00	0.08
43.53	1105.889	8.113	979	140826	0.08	11.27	0.00	0.08
44.23	1105.888	8.113	980	140826	0.08	11.27	0.00	0.08
44.93	1105.886	8.113	981	140826	0.08	11.27	0.00	0.08
45.64	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
46.34	1105.887	8.115	980	140824	0.08	11.27	0.00	0.08
47.04	1105.887	8.116	980	140823	0.08	11.27	0.00	0.08
47.74	1105.886	8.113	981	140826	0.08	11.27	0.00	0.08
48.45	1105.887	8.112	980	140827	0.08	11.27	0.00	0.08
49.15	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
49.85	1105.889	8.113	979	140826	0.08	11.27	0.00	0.08
50.56	1105.889	8.113	979	140826	0.08	11.27	0.00	0.08
51.25	1105.888	8.115	980	140824	0.08	11.27	0.00	0.08
51.96	1105.886	8.116	981	140823	0.08	11.27	0.00	0.08
52.66	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
53.36	1105.887	8.112	980	140827	0.08	11.27	0.00	0.08
54.06	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
54.77	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
55.47	1105.889	8.113	979	140826	0.08	11.27	0.00	0.08
56.17	1105.889	8.113	979	140826	0.08	11.27	0.00	0.08
56.88	1105.888	8.115	980	140824	0.08	11.27	0.00	0.08
57.58	1105.886	8.116	981	140823	0.08	11.27	0.00	0.08
58.28	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
58.98	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08

59.68	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
60.38	1105.886	8.113	981	140826	0.08	11.27	0.00	0.08
61.09	1105.887	8.115	980	140824	0.08	11.27	0.00	0.08
61.79	1105.887	8.116	980	140823	0.08	11.27	0.00	0.08
62.49	1105.886	8.113	981	140826	0.08	11.27	0.00	0.08
63.19	1105.887	8.112	980	140827	0.08	11.27	0.00	0.08
63.90	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
64.60	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
65.30	1105.889	8.113	979	140826	0.08	11.27	0.00	0.08
66.01	1105.889	8.113	979	140826	0.08	11.27	0.00	0.08
66.70	1105.888	8.115	980	140824	0.08	11.27	0.00	0.08
67.41	1105.886	8.116	981	140823	0.08	11.27	0.00	0.08
68.11	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
68.81	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
69.51	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
70.22	1105.886	8.113	981	140826	0.08	11.27	0.00	0.08
70.92	1105.887	8.115	980	140824	0.08	11.27	0.00	0.08
71.62	1105.887	8.116	980	140823	0.08	11.27	0.00	0.08
72.32	1105.886	8.113	981	140826	0.08	11.27	0.00	0.08
73.02	1105.887	8.112	980	140827	0.08	11.27	0.00	0.08
73.73	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
74.43	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
75.13	1105.887	8.111	980	140828	0.08	11.27	0.00	0.08
75.83	1105.889	8.113	979	140826	0.08	11.27	0.00	0.08
76.54	1105.889	8.113	979	140826	0.08	11.27	0.00	0.08
77.24	1105.888	8.113	980	140826	0.08	11.27	0.00	0.08
77.94	1105.886	8.115	981	140824	0.08	11.27	0.00	0.08
78.64	1105.887	8.116	980	140823	0.08	11.27	0.00	0.08
79.34	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
80.04	1105.887	8.112	980	140827	0.08	11.27	0.00	0.08

80.75	1105.886	8.113	981	140826	0.08	11.27	0.00	0.08
81.45	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
82.15	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
82.86	1105.889	8.115	979	140824	0.08	11.27	0.00	0.08
83.55	1105.889	8.116	979	140823	0.08	11.27	0.00	0.08
84.26	1105.888	8.113	980	140826	0.08	11.27	0.00	0.08
84.96	1105.886	8.112	981	140827	0.08	11.27	0.00	0.08
85.66	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
86.36	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
87.07	1105.887	8.111	980	140828	0.08	11.27	0.00	0.08
87.77	1105.886	8.114	981	140825	0.08	11.27	0.00	0.08
88.47	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
89.17	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
89.87	1105.886	8.113	981	140826	0.08	11.27	0.00	0.08
90.58	1105.887	8.115	980	140824	0.08	11.27	0.00	0.08
91.28	1105.887	8.116	980	140823	0.08	11.27	0.00	0.08
91.98	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
92.68	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
93.39	1105.889	8.113	979	140826	0.08	11.27	0.00	0.08
94.09	1105.889	8.113	979	140826	0.08	11.27	0.00	0.08
94.79	1105.888	8.113	980	140826	0.08	11.27	0.00	0.08
95.49	1105.886	8.113	981	140826	0.08	11.27	0.00	0.08
96.19	1105.887	8.115	980	140824	0.08	11.27	0.00	0.08
96.89	1105.887	8.116	980	140823	0.08	11.27	0.00	0.08
97.60	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
98.30	1105.886	8.112	981	140827	0.08	11.27	0.00	0.08
99.00	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
99.71	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
100.41	1105.886	8.113	981	140826	0.08	11.27	0.00	0.08
101.11	1105.887	8.115	980	140824	0.08	11.27	0.00	0.08

101.81	1105.887	8.116	980	140823	0.08	11.27	0.00	0.08
102.52	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
103.21	1105.889	8.112	979	140827	0.08	11.27	0.00	0.08
103.92	1105.889	8.113	979	140826	0.08	11.27	0.00	0.08
104.62	1105.888	8.113	980	140826	0.08	11.27	0.00	0.08
105.32	1105.886	8.111	981	140828	0.08	11.27	0.00	0.08
106.03	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
106.73	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
107.43	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
108.13	1105.886	8.115	981	140824	0.08	11.27	0.00	0.08
108.84	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
109.53	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
110.24	1105.886	8.113	981	140826	0.08	11.27	0.00	0.08
110.94	1105.887	8.115	980	140824	0.08	11.27	0.00	0.08
111.64	1105.887	8.116	980	140823	0.08	11.27	0.00	0.08
112.34	1105.887	8.113	980	140826	0.08	11.27	0.00	0.08
113.05	1105.889	8.112	979	140827	0.08	11.27	0.00	0.08
113.75	1105.889	8.113	979	140826	0.08	11.27	0.00	0.08
114.45	1105.888	8.113	980	140826	0.08	11.27	0.00	0.08
115.16	1105.91	8.111	963	140828	0.08	11.27	0.00	0.08
115.86	1105.989	17.332	902	130401	0.07	10.43	0.00	0.07
116.56	1106.121	31.196	801	114725	0.06	9.18	0.00	0.06
117.26	1106.334	55.419	637	87334	0.05	6.99	0.00	0.05
117.97	1106.417	69.314	573	71622	0.05	5.73	0.00	0.04
118.67	1106.492	83.309	516	55797	0.04	4.46	0.00	0.03
119.37	1106.573	97.153	454	40142	0.04	3.21	0.00	0.02
120.08	1106.801	109.224	279	26493	0.02	2.12	0.00	0.01
120.78	1107.091	107.391	56	28566	0.00	2.29	0.00	0.02
121.48	1107.162	116.454	2	18317	0.00	1.47	0.00	0.01
122.18	1107.164	129.385	0	3695	0.00	0.30	0.00	0.00

122.89	1107.162	132.54	2	128	0.00	0.01	0.00	0.00
123.59	1107.162	132.609	2	50	0.00	0.00	0.00	0.00
124.29	1107.163	132.651	1	2	0.00	0.00	0.00	0.00
124.99	1107.164	132.65	0	3	0.00	0.00	0.00	0.00
125.70	1107.164	132.652	0	1	0.00	0.00	0.00	0.00
126.40	1107.163	132.652	1	1	0.00	0.00	0.00	0.00
127.10	1107.164	132.653	0	0	0.00	0.00	0.00	0.00

Table S18. GC data measured after passing a mixed gas with a CO₂/N₂ (15/85) ratio at 100°C through an aerogel support at a flow rate of 20 ml/min.

Time (min/g)	N ₂ area	CO ₂ area	N ₂ adsorption (ppm)	CO ₂ adsorption (ppm)	N ₂ adsorption (ml)	CO ₂ adsorption (ml)	N ₂ adsorption (mmol/g)	CO ₂ adsorption (mmol/g)
Standard	1107.164	132.653	850000	150000	-	-	-	-
0.70	1107.087	88.442	59	49992	0.00	4.00	0.00	0.03
1.40	1106.951	50.337	164	93080	0.01	7.45	0.00	0.05
2.11	1106.935	27.919	176	118430	0.01	9.47	0.00	0.07
2.81	1106.903	19.327	200	128146	0.02	10.25	0.00	0.07
3.51	1106.896	15.44	206	132541	0.02	10.60	0.00	0.07
4.21	1106.897	13.298	205	134963	0.02	10.80	0.00	0.07
4.91	1106.896	12.661	206	135683	0.02	10.85	0.00	0.08
5.62	1106.895	12.001	207	136430	0.02	10.91	0.00	0.08
6.32	1106.898	11.885	204	136561	0.02	10.92	0.00	0.08
7.02	1106.896	11.483	206	137015	0.02	10.96	0.00	0.08
7.72	1106.897	11.171	205	137368	0.02	10.99	0.00	0.08
8.43	1106.895	11.003	207	137558	0.02	11.00	0.00	0.08
9.13	1106.899	10.938	203	137632	0.02	11.01	0.00	0.08
9.83	1106.896	10.571	206	138047	0.02	11.04	0.00	0.08
10.53	1106.895	10.773	207	137818	0.02	11.03	0.00	0.08
11.24	1106.898	10.705	204	137895	0.02	11.03	0.00	0.08
11.94	1106.896	10.682	206	137921	0.02	11.03	0.00	0.08

12.64	1106.897	10.681	205	137922	0.02	11.03	0.00	0.08
13.34	1106.895	10.681	207	137922	0.02	11.03	0.00	0.08
14.04	1106.899	10.682	203	137921	0.02	11.03	0.00	0.08
14.75	1106.897	10.682	205	137921	0.02	11.03	0.00	0.08
15.45	1106.895	10.681	207	137922	0.02	11.03	0.00	0.08
16.15	1106.899	10.681	203	137922	0.02	11.03	0.00	0.08
16.86	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
17.56	1106.896	10.683	206	137920	0.02	11.03	0.00	0.08
18.26	1106.895	10.682	207	137921	0.02	11.03	0.00	0.08
18.96	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
19.67	1106.895	10.682	207	137921	0.02	11.03	0.00	0.08
20.37	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
21.07	1106.895	10.682	207	137921	0.02	11.03	0.00	0.08
21.78	1106.898	10.681	204	137922	0.02	11.03	0.00	0.08
22.48	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
23.18	1106.896	10.682	206	137921	0.02	11.03	0.00	0.08
23.88	1106.895	10.682	207	137921	0.02	11.03	0.00	0.08
24.59	1106.898	10.682	204	137921	0.02	11.03	0.00	0.08
25.29	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
25.99	1106.897	10.681	205	137922	0.02	11.03	0.00	0.08
26.69	1106.895	10.682	207	137921	0.02	11.03	0.00	0.08
27.40	1106.899	10.682	203	137921	0.02	11.03	0.00	0.08
28.10	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
28.80	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
29.51	1106.895	10.681	207	137922	0.02	11.03	0.00	0.08
30.21	1106.896	10.682	206	137921	0.02	11.03	0.00	0.08
30.91	1106.895	10.681	207	137922	0.02	11.03	0.00	0.08
31.61	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
32.32	1106.895	10.682	207	137921	0.02	11.03	0.00	0.08
33.02	1106.898	10.682	204	137921	0.02	11.03	0.00	0.08

33.72	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
34.43	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
35.13	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
35.83	1106.895	10.683	207	137920	0.02	11.03	0.00	0.08
36.53	1106.896	10.682	206	137921	0.02	11.03	0.00	0.08
37.23	1106.895	10.681	207	137922	0.02	11.03	0.00	0.08
37.94	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
38.64	1106.895	10.682	207	137921	0.02	11.03	0.00	0.08
39.34	1106.898	10.682	204	137921	0.02	11.03	0.00	0.08
40.04	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
40.75	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
41.45	1106.895	10.681	207	137922	0.02	11.03	0.00	0.08
42.15	1106.898	10.683	204	137920	0.02	11.03	0.00	0.08
42.86	1106.896	10.682	206	137921	0.02	11.03	0.00	0.08
43.56	1106.897	10.681	205	137922	0.02	11.03	0.00	0.08
44.26	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
44.96	1106.895	10.682	207	137921	0.02	11.03	0.00	0.08
45.67	1106.896	10.682	206	137921	0.02	11.03	0.00	0.08
46.37	1106.895	10.681	207	137922	0.02	11.03	0.00	0.08
47.07	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
47.78	1106.895	10.681	207	137922	0.02	11.03	0.00	0.08
48.48	1106.898	10.683	204	137920	0.02	11.03	0.00	0.08
49.18	1106.896	10.682	206	137921	0.02	11.03	0.00	0.08
49.88	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
50.59	1106.895	10.681	207	137922	0.02	11.03	0.00	0.08
51.29	1106.898	10.682	204	137921	0.02	11.03	0.00	0.08
51.99	1106.896	10.682	206	137921	0.02	11.03	0.00	0.08
52.69	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
53.40	1106.895	10.681	207	137922	0.02	11.03	0.00	0.08
54.10	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08

54.80	1106.895	10.683	207	137920	0.02	11.03	0.00	0.08
55.51	1106.896	10.682	206	137921	0.02	11.03	0.00	0.08
56.21	1106.895	10.682	207	137921	0.02	11.03	0.00	0.08
56.91	1106.898	10.681	204	137922	0.02	11.03	0.00	0.08
57.61	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
58.32	1106.896	10.682	206	137921	0.02	11.03	0.00	0.08
59.02	1106.895	10.682	207	137921	0.02	11.03	0.00	0.08
59.72	1106.898	10.681	204	137922	0.02	11.03	0.00	0.08
60.42	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
61.13	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
61.83	1106.895	10.683	207	137920	0.02	11.03	0.00	0.08
62.53	1106.896	10.682	206	137921	0.02	11.03	0.00	0.08
63.23	1106.895	10.682	207	137921	0.02	11.03	0.00	0.08
63.94	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
64.64	1106.895	10.681	207	137922	0.02	11.03	0.00	0.08
65.34	1106.898	10.682	204	137921	0.02	11.03	0.00	0.08
66.04	1106.896	10.682	206	137921	0.02	11.03	0.00	0.08
66.74	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
67.45	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
68.15	1106.895	10.682	207	137921	0.02	11.03	0.00	0.08
68.85	1106.896	10.682	206	137921	0.02	11.03	0.00	0.08
69.56	1106.895	10.681	207	137922	0.02	11.03	0.00	0.08
70.26	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
70.96	1106.895	10.681	207	137922	0.02	11.03	0.00	0.08
71.66	1106.898	10.683	204	137920	0.02	11.03	0.00	0.08
72.37	1106.896	10.682	206	137921	0.02	11.03	0.00	0.08
73.07	1106.895	10.681	207	137922	0.02	11.03	0.00	0.08
73.77	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
74.48	1106.895	10.682	207	137921	0.02	11.03	0.00	0.08
75.18	1106.896	10.682	206	137921	0.02	11.03	0.00	0.08

75.88	1106.895	10.681	207	137922	0.02	11.03	0.00	0.08
76.58	1106.898	10.681	204	137922	0.02	11.03	0.00	0.08
77.29	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
77.99	1106.896	10.683	206	137920	0.02	11.03	0.00	0.08
78.69	1106.895	10.682	207	137921	0.02	11.03	0.00	0.08
79.39	1106.896	10.682	206	137921	0.02	11.03	0.00	0.08
80.09	1106.895	10.681	207	137922	0.02	11.03	0.00	0.08
80.79	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
81.50	1106.895	10.682	207	137921	0.02	11.03	0.00	0.08
82.20	1106.898	10.682	204	137921	0.02	11.03	0.00	0.08
82.90	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
83.61	1106.896	10.682	206	137921	0.02	11.03	0.00	0.08
84.31	1106.895	10.681	207	137922	0.02	11.03	0.00	0.08
85.01	1106.898	10.681	204	137922	0.02	11.03	0.00	0.08
85.71	1106.896	10.682	206	137921	0.02	11.03	0.00	0.08
86.41	1106.897	10.682	205	137921	0.02	11.03	0.00	0.08
87.11	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
87.82	1106.895	10.681	207	137922	0.02	11.03	0.00	0.08
88.52	1106.896	10.682	206	137921	0.02	11.03	0.00	0.08
89.22	1106.895	10.681	207	137922	0.02	11.03	0.00	0.08
89.93	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
90.63	1106.895	10.682	207	137921	0.02	11.03	0.00	0.08
91.33	1106.898	10.682	204	137921	0.02	11.03	0.00	0.08
92.03	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
92.74	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
93.44	1106.895	10.681	207	137922	0.02	11.03	0.00	0.08
94.14	1106.898	10.683	204	137920	0.02	11.03	0.00	0.08
94.84	1106.896	10.682	206	137921	0.02	11.03	0.00	0.08
95.55	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
96.25	1106.895	10.681	207	137922	0.02	11.03	0.00	0.08

96.95	1106.896	10.682	206	137921	0.02	11.03	0.00	0.08
97.65	1106.895	10.682	207	137921	0.02	11.03	0.00	0.08
98.35	1106.896	10.681	206	137922	0.02	11.03	0.00	0.08
99.06	1106.895	10.681	207	137922	0.02	11.03	0.00	0.08
99.76	1106.898	10.681	204	137922	0.02	11.03	0.00	0.08
100.46	1106.896	40.881	206	103773	0.02	8.30	0.00	0.06
101.16	1106.896	72.389	206	68145	0.02	5.45	0.00	0.04
101.87	1106.895	100.332	207	36548	0.02	2.92	0.00	0.02
102.57	1106.898	116.653	204	18092	0.02	1.45	0.00	0.01
103.27	1106.896	131.007	206	1861	0.02	0.15	0.00	0.00
103.97	1106.897	131.239	205	1599	0.02	0.13	0.00	0.00
104.67	1106.895	131.483	207	1323	0.02	0.11	0.00	0.00
105.38	1106.905	131.772	199	996	0.02	0.08	0.00	0.00
106.08	1106.991	132.22	133	490	0.01	0.04	0.00	0.00
106.78	1107.058	132.485	81	190	0.01	0.02	0.00	0.00
107.48	1107.16	132.652	3	1	0.00	0.00	0.00	0.00

Table S19. GC data measured after passing a mixed gas with a CO₂/O₂/N₂ (6/16/78) ratio at 50°C through an aerogel support at a flow rate of 20 ml/min.

Time (min/g)	N ₂ area	O ₂ area	CO ₂ area	N ₂ adsorpti on (ppm)	O ₂ Adsorpti on (ppm)	CO ₂ Adsorpti on (ppm)	N ₂ Adsorpti on (ml)	O ₂ Adsorpti on (ml)	CO ₂ Adsorpti on (ml)	N ₂ Adsorpti on (mmol/g)	O ₂ Adsorpti on (mmol/g)	CO ₂ Adsorpti on (mmol/g)
standa rd	1057. 16	312.1 1	57.2 7	780000	160000	60000	-	-	-	-	-	-
0.70	1057. 13	312.0 2	24.1 9	27	47	34656	0.00	0.00	2.77	0.00	0.00	0.02
1.41	1057. 09	311.8 8	18.8 5	52	116	40254	0.00	0.01	3.22	0.00	0.00	0.02
2.11	1057. 08	311.6 0	13.1 2	58	263	46259	0.00	0.02	3.70	0.00	0.00	0.03
2.81	1057. 09	311.4 9	8.00	54	316	51615	0.00	0.03	4.13	0.00	0.00	0.03
3.51	1056. 96	311.3 8	5.49	146	376	54248	0.01	0.03	4.34	0.00	0.00	0.03
4.22	1056. 89	311.3 0	4.39	203	416	55400	0.02	0.03	4.43	0.00	0.00	0.03
4.92	1056. 69	311.1 2	3.23	348	509	56619	0.03	0.04	4.53	0.00	0.00	0.03
5.62	1056. 59	311.0 1	2.86	421	562	57001	0.03	0.04	4.56	0.00	0.00	0.03
6.32	1056. 56	310.8 9	1.45	445	623	58486	0.04	0.05	4.68	0.00	0.00	0.03
7.02	1056. 55	310.8 9	0.96	449	626	58998	0.04	0.05	4.72	0.00	0.00	0.03
7.73	1056. 55	310.8 8	0.74	450	631	59222	0.04	0.05	4.74	0.00	0.00	0.03
8.43	1056. 55	310.8 8	0.65	449	631	59317	0.04	0.05	4.75	0.00	0.00	0.03
9.13	1056. 55	310.8 8	0.59	449	633	59384	0.04	0.05	4.75	0.00	0.00	0.03
9.83	1056. 55	310.8 7	0.49	449	634	59484	0.04	0.05	4.76	0.00	0.00	0.03
10.54	1056. 55	310.8 8	0.42	449	633	59562	0.04	0.05	4.76	0.00	0.00	0.03
11.24	1056. 50	310.8 8	0.45	490	629	59532	0.04	0.05	4.76	0.00	0.00	0.03
11.94	1056. 45	311.0 2	0.43	528	560	59551	0.04	0.04	4.76	0.00	0.00	0.03
12.64	1056. 50	310.9 0	0.41	488	622	59569	0.04	0.05	4.77	0.00	0.00	0.03

13.34	1056. 49	310.9 3	0.40	495	605	59577	0.04	0.05	4.77	0.00	0.00	0.03
14.04	1056. 53	310.8 7	0.40	464	637	59583	0.04	0.05	4.77	0.00	0.00	0.03
14.75	1056. 54	310.8 7	0.39	458	635	59587	0.04	0.05	4.77	0.00	0.00	0.03
15.45	1056. 55	310.8 7	0.39	449	634	59597	0.04	0.05	4.77	0.00	0.00	0.03
16.15	1056. 55	310.8 7	0.38	449	635	59605	0.04	0.05	4.77	0.00	0.00	0.03
16.86	1056. 55	310.8 8	0.35	449	633	59635	0.04	0.05	4.77	0.00	0.00	0.03
17.56	1056. 50	310.9 3	0.29	489	604	59695	0.04	0.05	4.78	0.00	0.00	0.03
18.26	1056. 45	311.0 3	0.33	528	555	59651	0.04	0.04	4.77	0.00	0.00	0.03
18.96	1056. 50	310.9 1	0.33	488	617	59658	0.04	0.05	4.77	0.00	0.00	0.03
19.67	1056. 49	311.2 0	0.32	495	468	59670	0.04	0.04	4.77	0.00	0.00	0.03
20.36	1056. 55	310.8 8	0.31	449	630	59678	0.04	0.05	4.77	0.00	0.00	0.03
21.07	1056. 55	310.8 8	0.29	449	631	59692	0.04	0.05	4.78	0.00	0.00	0.03
21.77	1056. 50	310.9 4	0.30	490	602	59689	0.04	0.05	4.78	0.00	0.00	0.03
22.47	1056. 45	311.1 3	0.29	527	500	59698	0.04	0.04	4.78	0.00	0.00	0.03
23.18	1056. 50	311.0 8	0.27	488	530	59714	0.04	0.04	4.78	0.00	0.00	0.03
23.88	1056. 49	311.1 1	0.28	494	514	59711	0.04	0.04	4.78	0.00	0.00	0.03
24.58	1056. 55	310.9 4	0.26	451	600	59724	0.04	0.05	4.78	0.00	0.00	0.03
25.28	1056. 55	310.9 2	0.26	449	608	59730	0.04	0.05	4.78	0.00	0.00	0.03
25.99	1056. 50	311.0 8	0.26	490	531	59728	0.04	0.04	4.78	0.00	0.00	0.03
26.69	1056. 45	311.2 9	0.25	528	420	59735	0.04	0.03	4.78	0.00	0.00	0.03
27.39	1056. 50	310.9 0	0.27	488	622	59720	0.04	0.05	4.78	0.00	0.00	0.03

28.09	1056. 49	310.9 9	0.24	494	573	59748	0.04	0.05	4.78	0.00	0.00	0.03
28.80	1056. 54	309.9 3	0.23	463	1118	59756	0.04	0.09	4.78	0.00	0.00	0.03
29.49	1056. 55	309.4 3	0.23	449	1375	59761	0.04	0.11	4.78	0.00	0.00	0.03
30.20	1056. 55	309.4 5	0.24	449	1366	59748	0.04	0.11	4.78	0.00	0.00	0.03
30.90	1056. 50	310.1 1	0.22	490	1025	59771	0.04	0.08	4.78	0.00	0.00	0.03
31.60	1056. 45	311.2 2	0.22	528	457	59770	0.04	0.04	4.78	0.00	0.00	0.03
32.31	1056. 50	310.9 7	0.27	488	587	59713	0.04	0.05	4.78	0.00	0.00	0.03
33.01	1056. 55	310.7 5	0.28	449	698	59706	0.04	0.06	4.78	0.00	0.00	0.03
33.71	1056. 55	310.8 1	0.29	449	665	59692	0.04	0.05	4.78	0.00	0.00	0.03
34.41	1056. 50	311.0 2	0.30	490	560	59684	0.04	0.04	4.77	0.00	0.00	0.03
35.12	1056. 45	311.1 2	0.22	528	509	59771	0.04	0.04	4.78	0.00	0.00	0.03
35.82	1056. 50	309.8 7	0.22	485	1146	59773	0.04	0.09	4.78	0.00	0.00	0.03
36.52	1056. 49	310.2 2	0.33	494	971	59650	0.04	0.08	4.77	0.00	0.00	0.03
37.23	1056. 53	309.1 7	0.14	464	1507	59854	0.04	0.12	4.79	0.00	0.00	0.03
37.93	1056. 54	309.0 1	0.11	458	1592	59884	0.04	0.13	4.79	0.00	0.00	0.03
38.63	1056. 55	308.9 5	0.10	449	1618	59897	0.04	0.13	4.79	0.00	0.00	0.03
39.33	1056. 55	308.9 5	0.13	449	1620	59867	0.04	0.13	4.79	0.00	0.00	0.03
40.03	1056. 50	309.2 3	0.07	490	1475	59932	0.04	0.12	4.79	0.00	0.00	0.03
40.73	1056. 45	310.1 9	0.00	528	986	60000	0.04	0.08	4.80	0.00	0.00	0.03
41.44	1056. 50	309.9 4	0.00	488	1114	60000	0.04	0.09	4.80	0.00	0.00	0.03
42.14	1056. 49	310.1 0	0.00	495	1031	60000	0.04	0.08	4.80	0.00	0.00	0.03

42.84	1056. 53	309.2 8	0.00	464	1449	60000	0.04	0.12	4.80	0.00	0.00	0.03
43.54	1056. 54	309.0 9	0.00	458	1547	60000	0.04	0.12	4.80	0.00	0.00	0.03
44.25	1056. 55	308.5 6	0.00	451	1822	60000	0.04	0.15	4.80	0.00	0.00	0.03
44.95	1056. 45	309.5 6	0.00	528	1308	60000	0.04	0.10	4.80	0.00	0.00	0.03
45.65	1056. 50	309.3 4	0.00	488	1422	60000	0.04	0.11	4.80	0.00	0.00	0.03
46.36	1056. 55	309.2 2	0.00	449	1482	60000	0.04	0.12	4.80	0.00	0.00	0.03
47.06	1056. 55	309.2 2	0.00	449	1482	60000	0.04	0.12	4.80	0.00	0.00	0.03
47.76	1056. 50	310.1 9	0.00	490	986	60000	0.04	0.08	4.80	0.00	0.00	0.03
48.46	1056. 45	310.8 1	0.00	528	665	60000	0.04	0.05	4.80	0.00	0.00	0.03
49.16	1056. 50	309.7 9	0.00	488	1191	60000	0.04	0.10	4.80	0.00	0.00	0.03
49.86	1056. 49	309.9 9	0.00	495	1086	60000	0.04	0.09	4.80	0.00	0.00	0.03
50.57	1056. 53	308.9 0	0.00	464	1645	60000	0.04	0.13	4.80	0.00	0.00	0.03
51.27	1056. 54	308.7 3	0.00	458	1734	60000	0.04	0.14	4.80	0.00	0.00	0.03
51.97	1056. 55	308.4 3	0.00	449	1885	60000	0.04	0.15	4.80	0.00	0.00	0.03
52.68	1056. 45	309.8 1	0.00	527	1179	60000	0.04	0.09	4.80	0.00	0.00	0.03
53.38	1056. 50	309.2 3	0.00	487	1477	60000	0.04	0.12	4.80	0.00	0.00	0.03
54.08	1056. 56	308.4 9	0.00	447	1857	60000	0.04	0.15	4.80	0.00	0.00	0.03
54.78	1056. 55	308.6 6	0.00	452	1769	60000	0.04	0.14	4.80	0.00	0.00	0.03
55.48	1056. 50	309.1 6	0.00	490	1514	60000	0.04	0.12	4.80	0.00	0.00	0.03
56.18	1056. 45	309.9 2	0.00	526	1124	60000	0.04	0.09	4.80	0.00	0.00	0.03
56.89	1056. 50	309.3 9	0.00	488	1395	60000	0.04	0.11	4.80	0.00	0.00	0.03

57.59	1056. 49	310.0 1	0.00	495	1077	60000	0.04	0.09	4.80	0.00	0.00	0.03
58.29	1056. 50	309.7 4	0.00	488	1213	60000	0.04	0.10	4.80	0.00	0.00	0.03
58.99	1056. 50	309.4 7	0.00	487	1356	60000	0.04	0.11	4.80	0.00	0.00	0.03
59.70	1056. 50	309.4 6	0.00	488	1358	60000	0.04	0.11	4.80	0.00	0.00	0.03
60.40	1056. 50	309.4 7	0.00	490	1354	60000	0.04	0.11	4.80	0.00	0.00	0.03
61.10	1056. 50	309.4 7	0.00	490	1353	60000	0.04	0.11	4.80	0.00	0.00	0.03
61.81	1056. 50	309.4 7	0.00	491	1352	60000	0.04	0.11	4.80	0.00	0.00	0.03
62.51	1056. 50	309.4 7	0.00	488	1354	60000	0.04	0.11	4.80	0.00	0.00	0.03
63.21	1056. 50	309.4 7	0.00	490	1352	60000	0.04	0.11	4.80	0.00	0.00	0.03
63.91	1056. 50	309.4 6	0.00	488	1358	60000	0.04	0.11	4.80	0.00	0.00	0.03
64.61	1056. 50	309.4 6	0.00	487	1361	60000	0.04	0.11	4.80	0.00	0.00	0.03
65.31	1056. 50	309.4 6	0.00	488	1359	60000	0.04	0.11	4.80	0.00	0.00	0.03
66.02	1056. 50	309.4 6	0.00	488	1357	60000	0.04	0.11	4.80	0.00	0.00	0.03
66.72	1056. 50	309.4 6	0.00	487	1361	60000	0.04	0.11	4.80	0.00	0.00	0.03
67.42	1056. 50	309.4 6	0.00	488	1358	60000	0.04	0.11	4.80	0.00	0.00	0.03
68.13	1056. 50	309.4 7	0.00	487	1356	60000	0.04	0.11	4.80	0.00	0.00	0.03
68.83	1056. 50	309.4 6	0.00	488	1357	60000	0.04	0.11	4.80	0.00	0.00	0.03
69.53	1056. 50	309.4 7	0.00	490	1353	60000	0.04	0.11	4.80	0.00	0.00	0.03
70.23	1056. 50	309.4 7	0.00	490	1352	60000	0.04	0.11	4.80	0.00	0.00	0.03
70.93	1056. 50	309.4 7	0.19	491	1354	59800	0.04	0.11	4.78	0.00	0.00	0.03
71.63	1056. 50	309.4 6	8.85	488	1358	50731	0.04	0.11	4.06	0.00	0.00	0.03

72.33	1056. 50	309.4 7	19.8 9	487	1354	39164	0.04	0.11	3.13	0.00	0.00	0.02
73.03	1056. 50	309.4 7	25.6 5	488	1352	33128	0.04	0.11	2.65	0.00	0.00	0.02
73.74	1056. 50	309.4 8	31.9 5	490	1351	26531	0.04	0.11	2.12	0.00	0.00	0.01
74.44	1056. 87	310.4 5	39.4 2	217	853	18708	0.02	0.07	1.50	0.00	0.00	0.01
75.14	1056. 91	310.6 1	43.4 4	184	769	14490	0.01	0.06	1.16	0.00	0.00	0.01
75.84	1056. 98	310.8 5	48.4 9	134	646	9199	0.01	0.05	0.74	0.00	0.00	0.01
76.55	1057. 02	311.4 8	50.1 9	103	322	7420	0.01	0.03	0.59	0.00	0.00	0.00
77.25	1057. 10	311.9 0	51.9 9	45	110	5532	0.00	0.01	0.44	0.00	0.00	0.00
77.95	1057. 13	312.0 5	52.1 9	27	31	5325	0.00	0.00	0.43	0.00	0.00	0.00
78.65	1057. 16	312.1 0	57.2 7	1	6	2	0.00	0.00	0.00	0.00	0.00	0.00

Table S20. GC data measured after passing a mixed gas with a CO₂/O₂/N₂ (6/16/78) ratio at 70°C through an aerogel support at a flow rate of 20 ml/min.

Time (min/g)	N ₂ area	O ₂ area	CO ₂ area	N ₂ adsorpti on (ppm)	O ₂ adsorpti on (ppm)	CO ₂ adsorpti on (ppm)	N ₂ adsorpti on (ml)	O ₂ adsorpti on (ml)	CO ₂ adsorpti on (ml)	N ₂ adsorpti on (mmol/g)	O ₂ adsorpti on (mmol/g)	CO ₂ adsorpti on (mmol/g)
standar d	1057.1 6	312.1 1	57.2 7	780000	160000	60000	-	-	-	-	-	-
0.70	1057.1 0	311.7 4	33.1 9	49	191	25226	0.00	0.02	2.02	0.00	0.00	0.01
1.41	1057.0 0	311.4 4	25.4 9	117	344	33300	0.01	0.03	2.66	0.00	0.00	0.02
2.11	1056.9 9	311.4 0	20.3 3	126	363	38701	0.01	0.03	3.10	0.00	0.00	0.02
2.81	1056.9 8	311.3 8	14.2 2	136	376	45103	0.01	0.03	3.61	0.00	0.00	0.02
3.51	1056.9 3	311.3 0	10.7 8	168	413	48704	0.01	0.03	3.90	0.00	0.00	0.03
4.21	1056.9 1	311.2 2	8.85	188	457	50730	0.02	0.04	4.06	0.00	0.00	0.03
4.91	1056.8 9	311.0 1	5.56	201	565	54173	0.02	0.05	4.33	0.00	0.00	0.03
5.62	1056.8 7	310.9 5	5.09	212	595	54664	0.02	0.05	4.37	0.00	0.00	0.03
6.32	1056.8 6	310.9 8	4.79	222	579	54981	0.02	0.05	4.40	0.00	0.00	0.03
7.02	1056.8 6	311.0 8	4.45	225	531	55342	0.02	0.04	4.43	0.00	0.00	0.03
7.73	1056.8 5	311.0 8	4.09	227	526	55717	0.02	0.04	4.46	0.00	0.00	0.03
8.43	1056.8 7	311.0 0	3.79	212	572	56025	0.02	0.05	4.48	0.00	0.00	0.03
9.13	1056.8 5	311.0 7	3.39	231	532	56448	0.02	0.04	4.52	0.00	0.00	0.03
9.83	1056.8 3	311.1 4	3.39	244	496	56451	0.02	0.04	4.52	0.00	0.00	0.03
10.53	1056.8 5	310.8 9	3.87	230	624	55946	0.02	0.05	4.48	0.00	0.00	0.03
11.23	1056.7 1	311.3 3	3.77	331	398	56052	0.03	0.03	4.48	0.00	0.00	0.03
11.94	1056.6 9	311.3 5	3.55	348	389	56277	0.03	0.03	4.50	0.00	0.00	0.03

12.64	$1056.6 \frac{311.3}{09}$	3.50	412	367	56332	0.03	0.03	4.51	0.00	0.00	0.03
13.34	$1056.6 \frac{311.0}{68}$	3.50	371	529	56336	0.03	0.04	4.51	0.00	0.00	0.03
14.04	$1056.5 \frac{311.2}{42}$	3.48	460	458	56355	0.04	0.04	4.51	0.00	0.00	0.03
14.75	$1056.5 \frac{311.0}{49}$	3.46	458	521	56372	0.04	0.04	4.51	0.00	0.00	0.03
15.45	$1056.5 \frac{311.1}{40}$	3.44	458	520	56395	0.04	0.04	4.51	0.00	0.00	0.03
16.15	$1056.5 \frac{311.1}{41}$	3.43	460	512	56408	0.04	0.04	4.51	0.00	0.00	0.03
16.86	$1056.5 \frac{311.1}{42}$	3.41	460	510	56433	0.04	0.04	4.51	0.00	0.00	0.03
17.55	$1056.5 \frac{311.1}{41}$	3.40	460	513	56441	0.04	0.04	4.52	0.00	0.00	0.03
18.26	$1056.5 \frac{311.2}{31}$	3.35	465	460	56487	0.04	0.04	4.52	0.00	0.00	0.03
18.96	$1056.5 \frac{311.2}{33}$	3.33	467	452	56509	0.04	0.04	4.52	0.00	0.00	0.03
19.66	$1056.5 \frac{311.2}{23}$	3.33	471	451	56516	0.04	0.04	4.52	0.00	0.00	0.03
20.36	$1056.5 \frac{311.2}{25}$	3.32	473	441	56521	0.04	0.04	4.52	0.00	0.00	0.03
21.07	$1056.5 \frac{311.2}{06}$	3.20	489	437	56653	0.04	0.03	4.53	0.00	0.00	0.03
21.77	$1056.4 \frac{311.2}{96}$	3.19	496	435	56659	0.04	0.03	4.53	0.00	0.00	0.03
22.47	$1056.4 \frac{311.2}{95}$	3.18	499	443	56664	0.04	0.04	4.53	0.00	0.00	0.03
23.18	$1056.4 \frac{311.2}{85}$	3.16	500	440	56693	0.04	0.04	4.54	0.00	0.00	0.03
23.88	$1056.4 \frac{311.2}{85}$	3.15	502	439	56701	0.04	0.04	4.54	0.00	0.00	0.03
24.58	$1056.4 \frac{311.2}{86}$	3.13	502	438	56718	0.04	0.04	4.54	0.00	0.00	0.03
25.28	$1056.4 \frac{311.2}{86}$	3.13	505	438	56724	0.04	0.04	4.54	0.00	0.00	0.03
25.98	$1056.4 \frac{311.2}{85}$	3.12	504	439	56729	0.04	0.04	4.54	0.00	0.00	0.03
26.68	$1056.4 \frac{311.2}{85}$	3.12	504	440	56733	0.04	0.04	4.54	0.00	0.00	0.03

27.39	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	3.11	504	439	56738	0.04	0.04	4.54	0.00	0.00	0.03
28.09	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	3.08	504	440	56769	0.04	0.04	4.54	0.00	0.00	0.03
28.79	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	3.05	505	439	56806	0.04	0.04	4.54	0.00	0.00	0.03
29.49	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.99	502	441	56870	0.04	0.04	4.55	0.00	0.00	0.03
30.19	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.95	503	439	56915	0.04	0.04	4.55	0.00	0.00	0.03
30.89	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.90	503	440	56959	0.04	0.04	4.56	0.00	0.00	0.03
31.60	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.89	502	440	56975	0.04	0.04	4.56	0.00	0.00	0.03
32.30	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.84	504	438	57024	0.04	0.04	4.56	0.00	0.00	0.03
33.00	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.82	504	439	57043	0.04	0.04	4.56	0.00	0.00	0.03
33.71	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.77	504	440	57102	0.04	0.04	4.57	0.00	0.00	0.03
34.41	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.75	504	439	57120	0.04	0.04	4.57	0.00	0.00	0.03
35.11	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.71	504	440	57160	0.04	0.04	4.57	0.00	0.00	0.03
35.81	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.70	505	438	57173	0.04	0.04	4.57	0.00	0.00	0.03
36.51	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.55	504	439	57330	0.04	0.04	4.59	0.00	0.00	0.03
37.21	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.47	504	440	57416	0.04	0.04	4.59	0.00	0.00	0.03
37.92	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.44	504	439	57444	0.04	0.04	4.60	0.00	0.00	0.03
38.62	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.33	504	440	57560	0.04	0.04	4.60	0.00	0.00	0.03
39.32	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.30	505	438	57586	0.04	0.04	4.61	0.00	0.00	0.03
40.03	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.30	502	439	57596	0.04	0.04	4.61	0.00	0.00	0.03
40.73	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
41.43	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03

42.13	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57601	0.04	0.04	4.61	0.00	0.00	0.03
42.84	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
43.54	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
44.24	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	502	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
44.94	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	503	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
45.65	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	503	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
46.34	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	502	441	57600	0.04	0.04	4.61	0.00	0.00	0.03
47.05	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
47.75	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
48.45	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
49.16	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57601	0.04	0.04	4.61	0.00	0.00	0.03
49.86	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
50.56	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	440	57602	0.04	0.04	4.61	0.00	0.00	0.03
51.26	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
51.97	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
52.67	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57601	0.04	0.04	4.61	0.00	0.00	0.03
53.37	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
54.08	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
54.78	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	502	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
55.48	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
56.18	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57600	0.04	0.04	4.61	0.00	0.00	0.03

56.88	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	441	57601	0.04	0.04	4.61	0.00	0.00	0.03
57.58	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57601	0.04	0.04	4.61	0.00	0.00	0.03
58.29	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
58.99	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	502	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
59.69	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	503	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
60.39	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	503	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
61.10	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
61.80	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	441	57601	0.04	0.04	4.61	0.00	0.00	0.03
62.50	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
63.21	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57600	0.04	0.04	4.61	0.00	0.00	0.03
63.91	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
64.61	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
65.31	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
66.02	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57600	0.04	0.04	4.61	0.00	0.00	0.03
66.72	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
67.42	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
68.13	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
68.83	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
69.53	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
70.23	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	505	438	57601	0.04	0.04	4.61	0.00	0.00	0.03
70.93	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57600	0.04	0.04	4.61	0.00	0.00	0.03

71.63	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
72.34	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
73.04	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
73.74	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
74.44	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	502	441	57601	0.04	0.04	4.61	0.00	0.00	0.03
75.15	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57601	0.04	0.04	4.61	0.00	0.00	0.03
75.85	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
76.55	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57600	0.04	0.04	4.61	0.00	0.00	0.03
77.26	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
77.96	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
78.66	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
79.36	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
80.07	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
80.77	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57601	0.04	0.04	4.61	0.00	0.00	0.03
81.47	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
82.18	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
82.88	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
83.58	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
84.28	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
84.99	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	441	57600	0.04	0.04	4.61	0.00	0.00	0.03
85.69	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	502	439	57601	0.04	0.04	4.61	0.00	0.00	0.03

86.39	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
87.09	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57602	0.04	0.04	4.61	0.00	0.00	0.03
87.79	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57600	0.04	0.04	4.61	0.00	0.00	0.03
88.49	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
89.20	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
89.90	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	502	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
90.60	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57600	0.04	0.04	4.61	0.00	0.00	0.03
91.31	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
92.01	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
92.71	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
93.41	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	505	438	57601	0.04	0.04	4.61	0.00	0.00	0.03
94.11	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
94.81	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57602	0.04	0.04	4.61	0.00	0.00	0.03
95.52	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
96.22	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57601	0.04	0.04	4.61	0.00	0.00	0.03
96.92	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
97.63	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	502	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
98.33	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
99.03	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57602	0.04	0.04	4.61	0.00	0.00	0.03
99.73	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
100.44	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	441	57601	0.04	0.04	4.61	0.00	0.00	0.03

101.14	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	505	438	57601	0.04	0.04	4.61	0.00	0.00	0.03
101.84	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	502	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
102.54	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
103.24	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
103.94	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
104.65	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57601	0.04	0.04	4.61	0.00	0.00	0.03
105.35	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
106.05	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
106.76	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
107.46	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
108.16	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
108.86	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	441	57600	0.04	0.04	4.61	0.00	0.00	0.03
109.56	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	502	438	57601	0.04	0.04	4.61	0.00	0.00	0.03
110.26	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
110.97	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57602	0.04	0.04	4.61	0.00	0.00	0.03
111.67	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
112.37	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
113.08	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
113.78	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	502	441	57600	0.04	0.04	4.61	0.00	0.00	0.03
114.48	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	503	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
115.18	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57601	0.04	0.04	4.61	0.00	0.00	0.03

115.89	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
116.59	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
117.29	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
117.99	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
118.69	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
119.39	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	441	57600	0.04	0.04	4.61	0.00	0.00	0.03
120.10	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57601	0.04	0.04	4.61	0.00	0.00	0.03
120.80	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
121.50	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	440	57602	0.04	0.04	4.61	0.00	0.00	0.03
122.21	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	502	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
122.91	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
123.61	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
124.31	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	441	57601	0.04	0.04	4.61	0.00	0.00	0.03
125.02	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
125.72	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57600	0.04	0.04	4.61	0.00	0.00	0.03
126.42	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
127.13	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
127.82	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
128.53	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
129.23	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
129.93	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	505	438	57601	0.04	0.04	4.61	0.00	0.00	0.03

130.63	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	502	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
131.34	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
132.04	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
132.74	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
133.44	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57600	0.04	0.04	4.61	0.00	0.00	0.03
134.15	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
134.85	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	502	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
135.55	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57602	0.04	0.04	4.61	0.00	0.00	0.03
136.25	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
136.95	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
137.66	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
138.36	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
139.06	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
139.76	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	441	57602	0.04	0.04	4.61	0.00	0.00	0.03
140.47	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57600	0.04	0.04	4.61	0.00	0.00	0.03
141.17	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
141.87	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
142.58	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	502	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
143.28	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
143.98	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57600	0.04	0.04	4.61	0.00	0.00	0.03
144.68	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03

145.39	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
146.09	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
146.79	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	502	438	57601	0.04	0.04	4.61	0.00	0.00	0.03
147.49	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
148.19	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
148.89	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
149.60	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
150.30	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
151.00	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	441	57601	0.04	0.04	4.61	0.00	0.00	0.03
151.71	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
152.40	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57602	0.04	0.04	4.61	0.00	0.00	0.03
153.11	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
153.81	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
154.51	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	502	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
155.21	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57602	0.04	0.04	4.61	0.00	0.00	0.03
155.92	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
156.62	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57600	0.04	0.04	4.61	0.00	0.00	0.03
157.32	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
158.02	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
158.72	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
159.43	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03

160.13	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
160.83	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	505	438	57600	0.04	0.04	4.61	0.00	0.00	0.03
161.53	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
162.24	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
162.94	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
163.64	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
164.34	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
165.04	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	502	441	57601	0.04	0.04	4.61	0.00	0.00	0.03
165.74	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57602	0.04	0.04	4.61	0.00	0.00	0.03
166.45	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
167.15	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57601	0.04	0.04	4.61	0.00	0.00	0.03
167.85	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
168.56	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	440	57602	0.04	0.04	4.61	0.00	0.00	0.03
169.26	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	502	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
169.96	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
170.66	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
171.37	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57600	0.04	0.04	4.61	0.00	0.00	0.03
172.07	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
172.77	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
173.47	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
174.17	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03

174.88	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
175.58	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	441	57600	0.04	0.04	4.61	0.00	0.00	0.03
176.28	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
176.98	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	502	438	57601	0.04	0.04	4.61	0.00	0.00	0.03
177.69	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
178.39	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
179.09	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
179.79	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
180.49	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
181.19	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	441	57600	0.04	0.04	4.61	0.00	0.00	0.03
181.90	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
182.60	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
183.30	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57600	0.04	0.04	4.61	0.00	0.00	0.03
184.01	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
184.71	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
185.41	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
186.11	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
186.82	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
187.52	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	441	57601	0.04	0.04	4.61	0.00	0.00	0.03
188.22	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57601	0.04	0.04	4.61	0.00	0.00	0.03
188.92	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57602	0.04	0.04	4.61	0.00	0.00	0.03

189.62	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
190.33	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
191.03	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
191.73	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
192.43	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	441	57600	0.04	0.04	4.61	0.00	0.00	0.03
193.14	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57600	0.04	0.04	4.61	0.00	0.00	0.03
193.84	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
194.54	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	502	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
195.24	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
195.95	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
196.65	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
197.35	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57600	0.04	0.04	4.61	0.00	0.00	0.03
198.06	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
198.75	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
199.46	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
200.16	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
200.86	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03
201.56	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	441	57601	0.04	0.04	4.61	0.00	0.00	0.03
202.27	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
202.97	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57600	0.04	0.04	4.61	0.00	0.00	0.03
203.67	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	439	57601	0.04	0.04	4.61	0.00	0.00	0.03

204.38	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	502	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
205.07	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
205.78	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
206.48	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
207.18	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	441	57601	0.04	0.04	4.61	0.00	0.00	0.03
207.88	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
208.59	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	502	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
209.29	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	503	438	57601	0.04	0.04	4.61	0.00	0.00	0.03
209.99	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	503	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
210.69	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	502	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
211.40	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
212.10	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
212.80	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57602	0.04	0.04	4.61	0.00	0.00	0.03
213.50	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
214.20	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	502	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
214.91	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	503	438	57601	0.04	0.04	4.61	0.00	0.00	0.03
215.61	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	503	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
216.31	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	502	440	57602	0.04	0.04	4.61	0.00	0.00	0.03
217.01	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	504	438	57600	0.04	0.04	4.61	0.00	0.00	0.03
217.72	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
218.42	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	504	439	57601	0.04	0.04	4.61	0.00	0.00	0.03

219.12	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	505	439	57600	0.04	0.04	4.61	0.00	0.00	0.03
219.83	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	502	440	57601	0.04	0.04	4.61	0.00	0.00	0.03
220.53	$\frac{1056.4}{8}$	$\frac{311.2}{6}$	2.29	503	438	57601	0.04	0.04	4.61	0.00	0.00	0.03
221.23	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	503	439	57602	0.04	0.04	4.61	0.00	0.00	0.03
221.93	$\frac{1056.4}{8}$	$\frac{311.2}{5}$	2.29	502	440	57600	0.04	0.04	4.61	0.00	0.00	0.03
222.64	$\frac{1056.4}{8}$	$\frac{311.5}{9}$	2.29	504	265	57600	0.04	0.02	4.61	0.00	0.00	0.03
223.34	$\frac{1056.8}{9}$	$\frac{311.7}{5}$	2.29	203	186	57601	0.02	0.01	4.61	0.00	0.00	0.03
224.04	$\frac{1056.9}{4}$	$\frac{311.8}{2}$	$\frac{35.5}{6}$	162	149	22753	0.01	0.01	1.82	0.00	0.00	0.01
224.74	$\frac{1056.9}{9}$	$\frac{311.8}{6}$	$\frac{49.1}{9}$	126	131	8465	0.01	0.01	0.68	0.00	0.00	0.00
225.45	$\frac{1057.0}{1}$	$\frac{311.8}{9}$	$\frac{53.9}{1}$	113	112	3524	0.01	0.01	0.28	0.00	0.00	0.00
226.15	$\frac{1057.1}{3}$	$\frac{311.9}{2}$	$\frac{55.4}{1}$	27	98	1951	0.00	0.01	0.16	0.00	0.00	0.00
226.85	$\frac{1057.1}{6}$	$\frac{311.9}{5}$	$\frac{56.7}{0}$	3	83	607	0.00	0.01	0.05	0.00	0.00	0.00
227.56	$\frac{1057.1}{6}$	$\frac{311.9}{8}$	$\frac{57.1}{0}$	1	67	181	0.00	0.01	0.01	0.00	0.00	0.00
228.26	$\frac{1057.1}{6}$	$\frac{312.1}{0}$	$\frac{57.2}{5}$	0	7	23	0.00	0.00	0.00	0.00	0.00	0.00
228.96	$\frac{1057.1}{6}$	$\frac{312.1}{0}$	$\frac{57.2}{7}$	-1	3	1	0.00	0.00	0.00	0.00	0.00	0.00
229.66	$\frac{1057.1}{6}$	$\frac{312.1}{1}$	$\frac{57.2}{8}$	0	-1	-1	0.00	0.00	0.00	0.00	0.00	0.00

Table S21. GC data measured after passing a mixed gas with a CO₂/O₂/N₂ (6/16/78) ratio at 100°C through an aerogel support at a flow rate of 20 ml/min.

Time (min/g)	N ₂ Area	O ₂ Area	CO ₂ Area	N ₂ adsorpti on (ppm)	O ₂ Adsorpti on (ppm)	CO ₂ Adsorpti on (ppm)	N ₂ Adsorpti on (ml)	O ₂ Adsorpti on (ml)	CO ₂ Adsorpti on (ml)	N ₂ Adsorpti on (mmol/g)	O ₂ Adsorpti on (mmol/g)	CO ₂ Adsorpti on (mmol/g)
standa rd	1057. 16	312.1 1	57.2 7	780000	160000	60000	-	-	-	-	-	-
0.70	1057. 16	312.0 0	38.1 9	2	57	19988	0.00	0.00	1.60	0.00	0.00	0.01
1.41	1057. 16	311.9 7	26.6 8	5	74	32051	0.00	0.01	2.56	0.00	0.00	0.02
2.10	1057. 15	311.9 4	20.3 9	7	88	38640	0.00	0.01	3.09	0.00	0.00	0.02
2.81	1057. 15	311.9 2	15.4 4	9	95	43822	0.00	0.01	3.51	0.00	0.00	0.02
3.51	1057. 15	311.9 0	13.4 0	11	106	45964	0.00	0.01	3.68	0.00	0.00	0.03
4.21	1057. 14	311.8 5	11.9 9	15	134	47440	0.00	0.01	3.80	0.00	0.00	0.03
4.91	1057. 14	311.8 3	10.4 1	17	146	49095	0.00	0.01	3.93	0.00	0.00	0.03
5.62	1057. 13	311.8 0	9.98	24	157	49541	0.00	0.01	3.96	0.00	0.00	0.03
6.32	1057. 11	311.8 0	9.59	36	160	49959	0.00	0.01	4.00	0.00	0.00	0.03
7.02	1057. 11	311.7 8	9.28	42	167	50279	0.00	0.01	4.02	0.00	0.00	0.03
7.73	1057. 10	311.7 8	8.89	44	171	50687	0.00	0.01	4.05	0.00	0.00	0.03
8.43	1057. 10	311.7 6	8.54	48	180	51052	0.00	0.01	4.08	0.00	0.00	0.03
9.13	1057. 09	311.7 5	8.20	51	182	51415	0.00	0.01	4.11	0.00	0.00	0.03
9.83	1057. 09	311.7 4	8.00	54	188	51615	0.00	0.02	4.13	0.00	0.00	0.03
10.54	1057. 06	311.7 5	7.87	77	186	51759	0.01	0.01	4.14	0.00	0.00	0.03
11.23	1057. 02	311.7 3	7.40	103	195	52249	0.01	0.02	4.18	0.00	0.00	0.03
11.94	1057. 00	311.7 3	7.07	119	197	52589	0.01	0.02	4.21	0.00	0.00	0.03

12.64	1057. 00	311.7 3	6.90	121	197	52776	0.01	0.02	4.22	0.00	0.00	0.03
13.34	1056. 96	311.7 3	6.56	146	195	53133	0.01	0.02	4.25	0.00	0.00	0.03
14.04	1056. 97	311.7 2	5.32	142	199	54428	0.01	0.02	4.35	0.00	0.00	0.03
14.75	1056. 97	311.7 2	5.09	145	198	54664	0.01	0.02	4.37	0.00	0.00	0.03
15.45	1056. 97	311.7 3	5.09	145	197	54666	0.01	0.02	4.37	0.00	0.00	0.03
16.15	1056. 96	311.7 2	5.09	146	198	54669	0.01	0.02	4.37	0.00	0.00	0.03
16.86	1056. 96	311.7 3	5.08	147	197	54674	0.01	0.02	4.37	0.00	0.00	0.03
17.56	1056. 97	311.7 0	5.09	145	208	54673	0.01	0.02	4.37	0.00	0.00	0.03
18.26	1056. 97	311.7 0	5.08	142	211	54674	0.01	0.02	4.37	0.00	0.00	0.03
18.96	1056. 97	311.6 8	5.08	143	218	54677	0.01	0.02	4.37	0.00	0.00	0.03
19.67	1056. 96	311.6 8	5.08	146	220	54676	0.01	0.02	4.37	0.00	0.00	0.03
20.37	1056. 97	311.6 8	5.08	145	219	54677	0.01	0.02	4.37	0.00	0.00	0.03
21.07	1056. 97	311.6 8	5.08	143	223	54681	0.01	0.02	4.37	0.00	0.00	0.03
21.78	1056. 97	311.6 7	5.07	142	224	54684	0.01	0.02	4.37	0.00	0.00	0.03
22.48	1056. 97	311.6 7	5.07	145	226	54688	0.01	0.02	4.38	0.00	0.00	0.03
23.18	1056. 97	311.6 6	5.07	145	232	54688	0.01	0.02	4.38	0.00	0.00	0.03
23.88	1056. 96	311.6 5	5.07	146	234	54693	0.01	0.02	4.38	0.00	0.00	0.03
24.59	1056. 96	311.6 5	5.07	147	235	54690	0.01	0.02	4.38	0.00	0.00	0.03
25.29	1056. 97	311.6 5	5.06	145	236	54695	0.01	0.02	4.38	0.00	0.00	0.03
25.99	1056. 97	311.6 5	5.06	142	237	54696	0.01	0.02	4.38	0.00	0.00	0.03
26.69	1056. 97	311.6 5	5.06	143	237	54700	0.01	0.02	4.38	0.00	0.00	0.03

27.39	1056. 97	311.6 5	5.06	142	238	54702	0.01	0.02	4.38	0.00	0.00	0.03
28.09	1056. 97	311.6 4	5.05	145	241	54705	0.01	0.02	4.38	0.00	0.00	0.03
28.80	1056. 97	311.6 3	5.05	145	244	54705	0.01	0.02	4.38	0.00	0.00	0.03
29.50	1056. 96	311.6 3	5.05	146	247	54709	0.01	0.02	4.38	0.00	0.00	0.03
30.20	1056. 96	311.6 1	5.05	147	257	54711	0.01	0.02	4.38	0.00	0.00	0.03
30.91	1056. 97	311.6 0	5.04	145	263	54716	0.01	0.02	4.38	0.00	0.00	0.03
31.61	1056. 97	311.6 0	5.04	142	264	54721	0.01	0.02	4.38	0.00	0.00	0.03
32.31	1056. 97	311.6 0	5.03	143	262	54727	0.01	0.02	4.38	0.00	0.00	0.03
33.01	1056. 96	311.6 0	5.03	146	263	54732	0.01	0.02	4.38	0.00	0.00	0.03
33.72	1056. 97	311.6 0	5.00	145	263	54763	0.01	0.02	4.38	0.00	0.00	0.03
34.42	1056. 97	311.6 0	5.00	143	264	54764	0.01	0.02	4.38	0.00	0.00	0.03
35.12	1056. 97	311.6 0	4.99	142	263	54770	0.01	0.02	4.38	0.00	0.00	0.03
35.83	1056. 97	311.6 0	4.99	145	264	54774	0.01	0.02	4.38	0.00	0.00	0.03
36.53	1056. 97	311.5 9	4.99	145	265	54776	0.01	0.02	4.38	0.00	0.00	0.03
37.23	1056. 96	311.6 0	4.98	146	264	54779	0.01	0.02	4.38	0.00	0.00	0.03
37.93	1056. 96	311.6 0	4.88	147	263	54887	0.01	0.02	4.39	0.00	0.00	0.03
38.63	1056. 97	311.6 0	4.67	145	262	55109	0.01	0.02	4.41	0.00	0.00	0.03
39.33	1056. 97	311.6 0	4.66	142	263	55120	0.01	0.02	4.41	0.00	0.00	0.03
40.04	1056. 97	311.6 0	4.65	143	263	55126	0.01	0.02	4.41	0.00	0.00	0.03
40.74	1056. 96	311.6 0	4.49	146	264	55294	0.01	0.02	4.42	0.00	0.00	0.03
41.44	1056. 97	311.6 0	4.48	145	263	55306	0.01	0.02	4.42	0.00	0.00	0.03

42.14	1056. 97	311.6 0	4.49	143	264	55302	0.01	0.02	4.42	0.00	0.00	0.03
42.85	1056. 97	311.5 9	4.47	142	265	55318	0.01	0.02	4.43	0.00	0.00	0.03
43.55	1056. 97	311.6 0	4.46	145	264	55327	0.01	0.02	4.43	0.00	0.00	0.03
44.25	1056. 97	311.6 0	4.46	145	263	55324	0.01	0.02	4.43	0.00	0.00	0.03
44.96	1056. 97	311.6 0	4.44	142	262	55350	0.01	0.02	4.43	0.00	0.00	0.03
45.65	1056. 97	311.6 0	4.40	145	263	55391	0.01	0.02	4.43	0.00	0.00	0.03
46.36	1056. 97	311.6 0	4.33	145	263	55465	0.01	0.02	4.44	0.00	0.00	0.03
47.06	1056. 96	311.6 0	4.29	146	264	55502	0.01	0.02	4.44	0.00	0.00	0.03
47.76	1056. 96	311.6 0	4.29	147	263	55511	0.01	0.02	4.44	0.00	0.00	0.03
48.46	1056. 97	311.6 0	4.26	145	264	55542	0.01	0.02	4.44	0.00	0.00	0.03
49.17	1056. 97	311.5 9	4.24	142	265	55560	0.01	0.02	4.44	0.00	0.00	0.03
49.87	1056. 97	311.6 0	4.21	143	264	55594	0.01	0.02	4.45	0.00	0.00	0.03
50.57	1056. 96	311.6 0	4.20	146	263	55605	0.01	0.02	4.45	0.00	0.00	0.03
51.28	1056. 97	311.6 0	4.19	145	262	55607	0.01	0.02	4.45	0.00	0.00	0.03
51.98	1056. 97	311.6 0	4.19	142	263	55610	0.01	0.02	4.45	0.00	0.00	0.03
52.68	1056. 97	311.6 0	4.19	145	263	55615	0.01	0.02	4.45	0.00	0.00	0.03
53.38	1056. 97	311.6 0	4.18	145	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
54.09	1056. 96	311.6 0	4.18	146	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
54.79	1056. 96	311.6 0	4.19	147	264	55616	0.01	0.02	4.45	0.00	0.00	0.03
55.49	1056. 97	311.5 9	4.18	145	265	55617	0.01	0.02	4.45	0.00	0.00	0.03
56.19	1056. 97	311.6 0	4.18	142	264	55617	0.01	0.02	4.45	0.00	0.00	0.03

56.90	1056. 97	311.6 0	4.18	143	263	55620	0.01	0.02	4.45	0.00	0.00	0.03
57.59	1056. 96	311.6 0	4.18	146	262	55617	0.01	0.02	4.45	0.00	0.00	0.03
58.30	1056. 97	311.6 0	4.18	145	263	55618	0.01	0.02	4.45	0.00	0.00	0.03
59.00	1056. 97	311.6 0	4.18	143	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
59.70	1056. 97	311.6 0	4.18	142	264	55619	0.01	0.02	4.45	0.00	0.00	0.03
60.41	1056. 97	311.6 0	4.18	145	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
61.11	1056. 97	311.6 0	4.18	145	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
61.81	1056. 97	311.5 9	4.19	142	265	55616	0.01	0.02	4.45	0.00	0.00	0.03
62.51	1056. 97	311.6 0	4.18	145	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
63.22	1056. 97	311.6 0	4.18	145	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
63.92	1056. 96	311.6 0	4.18	146	262	55620	0.01	0.02	4.45	0.00	0.00	0.03
64.62	1056. 96	311.6 0	4.18	147	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
65.33	1056. 97	311.6 0	4.18	145	263	55618	0.01	0.02	4.45	0.00	0.00	0.03
66.03	1056. 97	311.6 0	4.18	142	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
66.73	1056. 97	311.6 0	4.18	143	263	55619	0.01	0.02	4.45	0.00	0.00	0.03
67.43	1056. 96	311.6 0	4.18	146	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
68.14	1056. 97	311.5 9	4.18	145	265	55617	0.01	0.02	4.45	0.00	0.00	0.03
68.84	1056. 97	311.6 0	4.19	143	264	55616	0.01	0.02	4.45	0.00	0.00	0.03
69.54	1056. 97	311.6 0	4.18	142	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
70.24	1056. 97	311.6 0	4.18	145	262	55617	0.01	0.02	4.45	0.00	0.00	0.03
70.94	1056. 97	311.6 0	4.18	145	263	55617	0.01	0.02	4.45	0.00	0.00	0.03

71.64	1056. 96	311.6 0	4.19	146	263	55616	0.01	0.02	4.45	0.00	0.00	0.03
72.35	1056. 96	311.6 0	4.18	147	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
73.05	1056. 97	311.6 0	4.18	145	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
73.75	1056. 97	311.6 0	4.18	142	264	55620	0.01	0.02	4.45	0.00	0.00	0.03
74.46	1056. 97	311.5 9	4.18	143	265	55617	0.01	0.02	4.45	0.00	0.00	0.03
75.16	1056. 97	311.6 0	4.18	142	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
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78.67	1056. 97	311.6 0	4.18	145	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
79.38	1056. 97	311.6 0	4.18	142	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
80.08	1056. 97	311.6 0	4.18	143	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
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81.48	1056. 97	311.6 0	4.18	145	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
82.19	1056. 97	311.6 0	4.18	143	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
82.89	1056. 97	311.6 0	4.19	142	262	55616	0.01	0.02	4.45	0.00	0.00	0.03
83.59	1056. 97	311.6 0	4.18	145	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
84.29	1056. 97	311.6 0	4.18	145	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
85.00	1056. 96	311.6 0	4.18	146	264	55620	0.01	0.02	4.45	0.00	0.00	0.03
85.70	1056. 96	311.6 0	4.18	147	263	55617	0.01	0.02	4.45	0.00	0.00	0.03

86.40	1056. 97	311.6 0	4.18	145	264	55618	0.01	0.02	4.45	0.00	0.00	0.03
87.11	1056. 97	311.5 9	4.18	142	265	55617	0.01	0.02	4.45	0.00	0.00	0.03
87.81	1056. 97	311.6 0	4.18	143	264	55619	0.01	0.02	4.45	0.00	0.00	0.03
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89.21	1056. 97	311.6 0	4.18	145	262	55617	0.01	0.02	4.45	0.00	0.00	0.03
89.92	1056. 97	311.6 0	4.19	143	263	55616	0.01	0.02	4.45	0.00	0.00	0.03
90.62	1056. 97	311.6 0	4.18	142	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
91.32	1056. 97	311.6 0	4.18	145	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
92.03	1056. 97	311.6 0	4.18	145	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
92.73	1056. 96	311.6 0	4.18	146	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
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96.94	1056. 97	311.6 0	4.18	145	263	55618	0.01	0.02	4.45	0.00	0.00	0.03
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100.46	1056. 97	311.6 0	4.19	143	264	55616	0.01	0.02	4.45	0.00	0.00	0.03

101.16	1056. 96	311.6 0	4.18	146	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
101.86	1056. 97	311.6 0	4.18	145	262	55617	0.01	0.02	4.45	0.00	0.00	0.03
102.56	1056. 97	311.6 0	4.19	143	263	55616	0.01	0.02	4.45	0.00	0.00	0.03
103.26	1056. 97	311.6 0	4.18	142	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
103.97	1056. 97	311.6 0	4.18	145	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
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70.24	1056. 97	311.6 0	4.18	145	262	55617	0.01	0.02	4.45	0.00	0.00	0.03
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72.35	1056. 96	311.6 0	4.18	147	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
73.05	1056. 97	311.6 0	4.18	145	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
73.75	1056. 97	311.6 0	4.18	142	264	55620	0.01	0.02	4.45	0.00	0.00	0.03
74.46	1056. 97	311.5 9	4.18	143	265	55617	0.01	0.02	4.45	0.00	0.00	0.03
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75.86	1056. 97	311.6 0	4.19	145	263	55616	0.01	0.02	4.45	0.00	0.00	0.03
76.56	1056. 97	311.6 0	4.18	145	262	55617	0.01	0.02	4.45	0.00	0.00	0.03

77.27	1056. 96	311.6 0	4.18	146	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
77.97	1056. 96	311.6 0	4.18	147	263	55620	0.01	0.02	4.45	0.00	0.00	0.03
78.67	1056. 97	311.6 0	4.18	145	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
79.38	1056. 97	311.6 0	4.18	142	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
80.08	1056. 97	311.6 0	4.18	143	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
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85.00	1056. 96	311.6 0	4.18	146	264	55620	0.01	0.02	4.45	0.00	0.00	0.03
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92.03	1056. 97	311.6 0	4.18	145	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
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95.54	1056. 97	311.6 0	4.18	142	262	55620	0.01	0.02	4.45	0.00	0.00	0.03
96.24	1056. 97	311.6 0	4.18	145	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
96.94	1056. 97	311.6 0	4.18	145	263	55618	0.01	0.02	4.45	0.00	0.00	0.03
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98.35	1056. 96	311.6 0	4.18	147	263	55619	0.01	0.02	4.45	0.00	0.00	0.03
99.05	1056. 97	311.6 0	4.18	145	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
99.76	1056. 97	311.5 9	4.18	142	265	55617	0.01	0.02	4.45	0.00	0.00	0.03
100.46	1056. 97	311.6 0	4.19	143	264	55616	0.01	0.02	4.45	0.00	0.00	0.03
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101.86	1056. 97	311.6 0	4.18	145	262	55617	0.01	0.02	4.45	0.00	0.00	0.03
102.56	1056. 97	311.6 0	4.19	143	263	55616	0.01	0.02	4.45	0.00	0.00	0.03
103.26	1056. 97	311.6 0	4.18	142	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
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105.37	1056. 96	311.6 0	4.18	146	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
106.08	1056. 97	311.5 9	4.18	142	265	55618	0.01	0.02	4.45	0.00	0.00	0.03

106.78	1056. 97	311.6 0	4.18	145	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
107.48	1056. 97	311.6 0	4.18	145	263	55619	0.01	0.02	4.45	0.00	0.00	0.03
108.18	1056. 96	311.6 0	4.18	146	262	55617	0.01	0.02	4.45	0.00	0.00	0.03
147.52	1056. 97	311.6 0	4.18	143	263	55620	0.01	0.02	4.45	0.00	0.00	0.03
148.22	1056. 96	311.6 0	4.18	146	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
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151.73	1056. 97	311.6 0	4.18	145	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
152.43	1056. 96	311.6 0	4.19	146	262	55616	0.01	0.02	4.45	0.00	0.00	0.03
153.13	1056. 96	311.6 0	4.18	147	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
153.84	1056. 97	311.6 0	4.18	145	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
154.54	1056. 97	311.6 0	4.18	142	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
155.24	1056. 97	311.6 0	4.18	143	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
155.94	1056. 97	311.6 0	4.19	142	264	55616	0.01	0.02	4.45	0.00	0.00	0.03
156.65	1056. 97	311.5 9	4.18	145	265	55617	0.01	0.02	4.45	0.00	0.00	0.03
157.35	1056. 97	311.6 0	4.18	145	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
158.05	1056. 96	311.6 0	4.18	146	263	55620	0.01	0.02	4.45	0.00	0.00	0.03
158.76	1056. 96	311.6 0	4.18	147	262	55617	0.01	0.02	4.45	0.00	0.00	0.03
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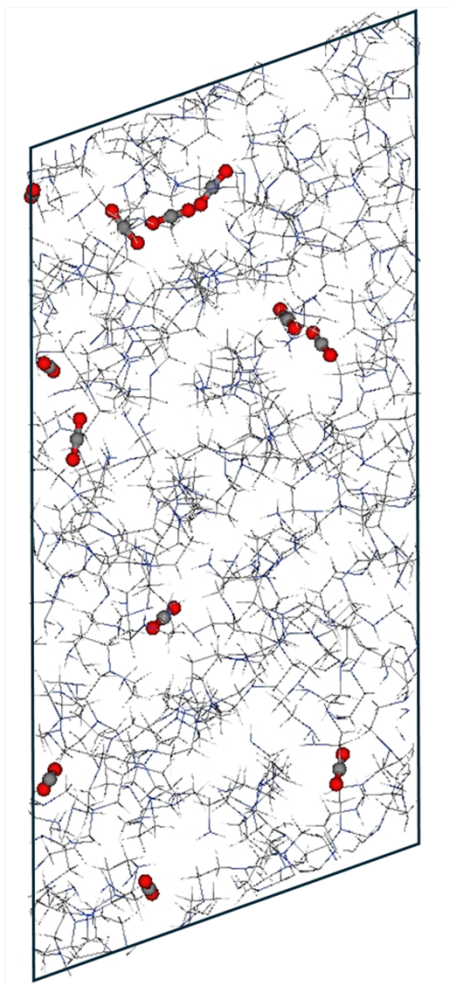
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165.08	1056. 97	311.6 0	4.18	145	262	55617	0.01	0.02	4.45	0.00	0.00	0.03
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168.59	1056. 97	311.6 0	4.18	145	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
169.30	1056. 97	311.6 0	4.18	145	263	55618	0.01	0.02	4.45	0.00	0.00	0.03
170.00	1056. 96	311.6 0	4.18	146	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
170.70	1056. 96	311.5 9	4.18	147	265	55619	0.01	0.02	4.45	0.00	0.00	0.03
171.40	1056. 97	311.6 0	4.18	145	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
172.10	1056. 97	311.6 0	4.18	142	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
172.81	1056. 97	311.6 0	4.19	143	262	55616	0.01	0.02	4.45	0.00	0.00	0.03
173.51	1056. 96	311.6 0	4.18	146	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
174.21	1056. 97	311.6 0	4.18	145	263	55617	0.01	0.02	4.45	0.00	0.00	0.03

174.91	1056. 97	311.6 0	4.19	143	264	55616	0.01	0.02	4.45	0.00	0.00	0.03
175.62	1056. 97	311.6 0	4.18	142	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
176.32	1056. 97	311.6 0	4.18	145	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
177.02	1056. 97	311.5 9	4.18	145	265	55617	0.01	0.02	4.45	0.00	0.00	0.03
177.73	1056. 97	311.6 0	4.18	142	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
178.43	1056. 97	311.6 0	4.19	145	263	55616	0.01	0.02	4.45	0.00	0.00	0.03
179.13	1056. 97	311.6 0	4.18	145	262	55617	0.01	0.02	4.45	0.00	0.00	0.03
179.83	1056. 96	311.6 0	4.18	146	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
180.54	1056. 96	311.6 0	4.18	147	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
181.23	1056. 97	311.6 0	4.18	145	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
181.94	1056. 97	311.6 0	4.18	142	263	55620	0.01	0.02	4.45	0.00	0.00	0.03
182.64	1056. 97	311.6 0	4.18	143	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
183.34	1056. 96	311.5 9	4.18	146	265	55618	0.01	0.02	4.45	0.00	0.00	0.03
184.04	1056. 97	311.6 0	4.18	145	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
184.75	1056. 97	311.6 0	4.18	143	263	55619	0.01	0.02	4.45	0.00	0.00	0.03
185.45	1056. 97	311.6 0	4.18	142	262	55617	0.01	0.02	4.45	0.00	0.00	0.03
186.15	1056. 97	311.6 0	4.18	145	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
186.86	1056. 97	311.6 0	4.19	145	263	55616	0.01	0.02	4.45	0.00	0.00	0.03
187.56	1056. 96	311.6 0	4.18	146	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
188.26	1056. 96	311.6 0	4.18	147	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
188.96	1056. 97	311.6 0	4.19	145	264	55616	0.01	0.02	4.45	0.00	0.00	0.03

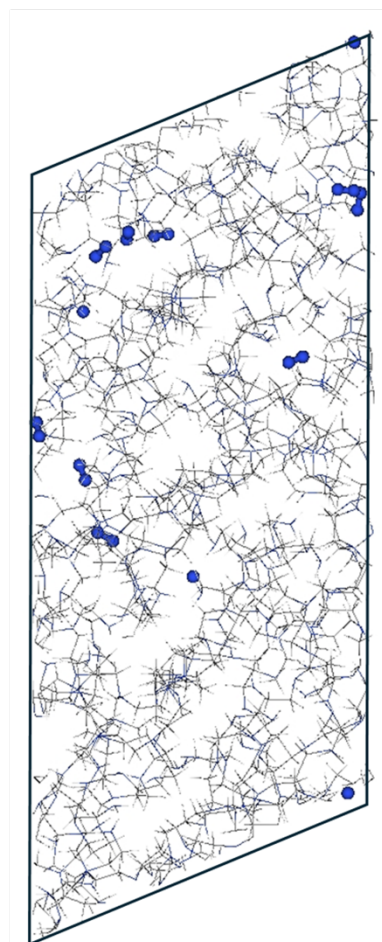
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191.07	1056. 97	311.6 0	4.18	142	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
191.78	1056. 97	311.6 0	4.18	145	262	55620	0.01	0.02	4.45	0.00	0.00	0.03
192.47	1056. 97	311.6 0	4.18	145	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
193.18	1056. 96	311.6 0	4.18	146	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
193.88	1056. 96	311.6 0	4.18	147	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
194.58	1056. 97	311.6 0	4.18	145	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
195.28	1056. 97	311.6 0	4.18	142	264	55620	0.01	0.02	4.45	0.00	0.00	0.03
195.99	1056. 97	311.5 9	4.18	143	265	55617	0.01	0.02	4.45	0.00	0.00	0.03
196.69	1056. 96	311.6 0	4.18	146	264	55618	0.01	0.02	4.45	0.00	0.00	0.03
197.39	1056. 97	311.6 0	4.18	145	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
198.09	1056. 97	311.6 0	4.18	143	262	55619	0.01	0.02	4.45	0.00	0.00	0.03
198.79	1056. 97	311.6 0	4.18	142	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
199.49	1056. 97	311.6 0	4.18	145	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
200.20	1056. 97	311.6 0	4.19	145	264	55616	0.01	0.02	4.45	0.00	0.00	0.03
200.90	1056. 96	311.6 0	4.18	146	263	55617	0.01	0.02	4.45	0.00	0.00	0.03
201.60	1056. 96	311.6 0	4.18	147	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
202.31	1056. 97	311.5 9	4.19	145	265	55616	0.01	0.02	4.45	0.00	0.00	0.03
203.01	1056. 97	311.6 0	4.18	142	264	55617	0.01	0.02	4.45	0.00	0.00	0.03
203.71	1056. 97	312.0 2	4.18	143	49	55617	0.01	0.00	4.45	0.00	0.00	0.03

204.41	1056. 97	312.0 4	4.18	142	34	55617	0.01	0.00	4.45	0.00	0.00	0.03
205.11	1056. 97	312.0 6	4.18	145	27	55617	0.01	0.00	4.45	0.00	0.00	0.03
205.81	1056. 97	312.1 0	4.19	145	6	55616	0.01	0.00	4.45	0.00	0.00	0.03
206.52	1057. 01	312.1 1	4.18	109	-1	55617	0.01	0.00	4.45	0.00	0.00	0.03
207.22	1057. 10	312.1 1	4.18	46	1	55617	0.00	0.00	4.45	0.00	0.00	0.03
207.92	1057. 14	312.1 1	52.2 2	13	0	5298	0.00	0.00	0.42	0.00	0.00	0.00
208.62	1057. 16	312.1 1	54.7 4	1	0	2658	0.00	0.00	0.21	0.00	0.00	0.00
209.32	1057. 16	312.1 1	56.1 8	-1	1	1147	0.00	0.00	0.09	0.00	0.00	0.00
210.03	1057. 16	312.1 1	56.4 8	0	-1	830	0.00	0.00	0.07	0.00	0.00	0.00
210.73	1057. 16	312.1 1	57.2 1	0	0	68	0.00	0.00	0.01	0.00	0.00	0.00
211.43	1057. 16	312.1 1	57.2 4	1	0	31	0.00	0.00	0.00	0.00	0.00	0.00
212.13	1057. 16	312.1 1	57.2 6	0	0	12	0.00	0.00	0.00	0.00	0.00	0.00
212.84	1057. 16	312.1 1	57.2 7	1	1	4	0.00	0.00	0.00	0.00	0.00	0.00
213.54	1057. 16	312.1 1	57.2 7	1	-1	0	0.00	0.00	0.00	0.00	0.00	0.00

Without IL

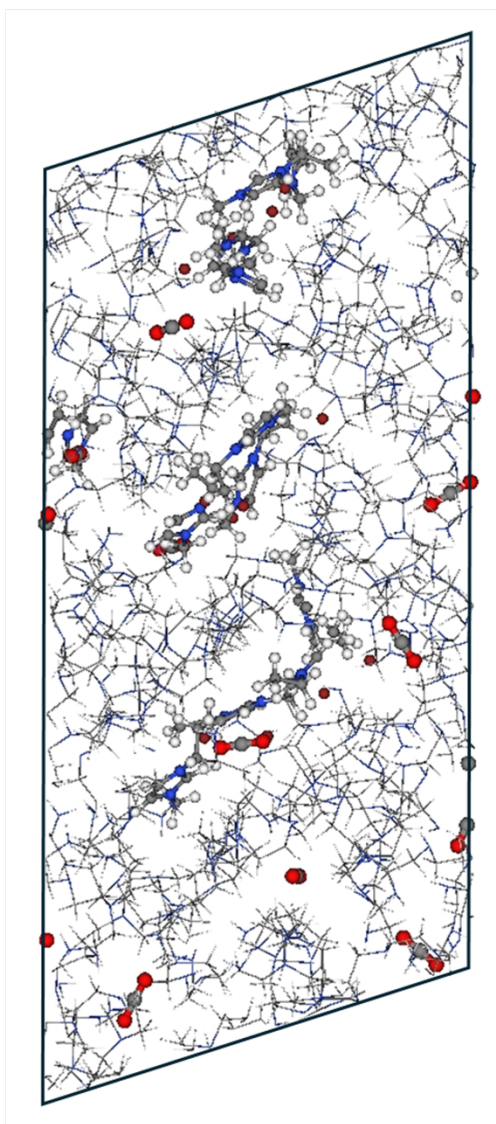


$$E_{\text{inter}} = -8.054 \text{ kcal/mol}$$

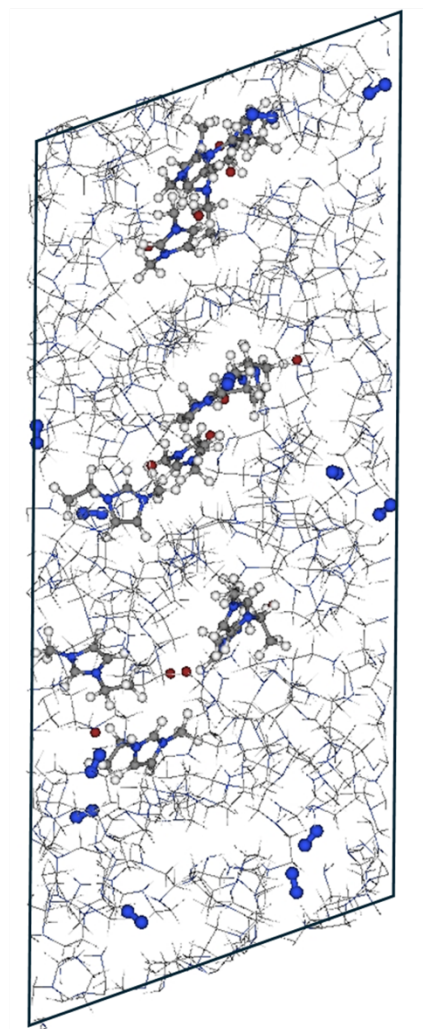


$$E_{\text{inter}} = -3.816 \text{ kcal/mol}$$

With IL

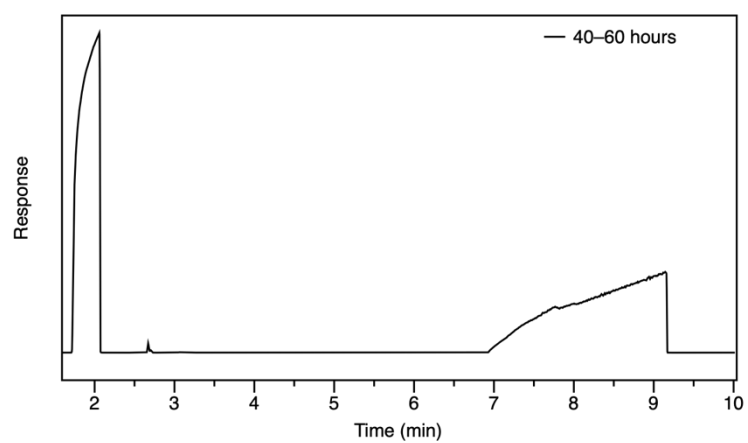
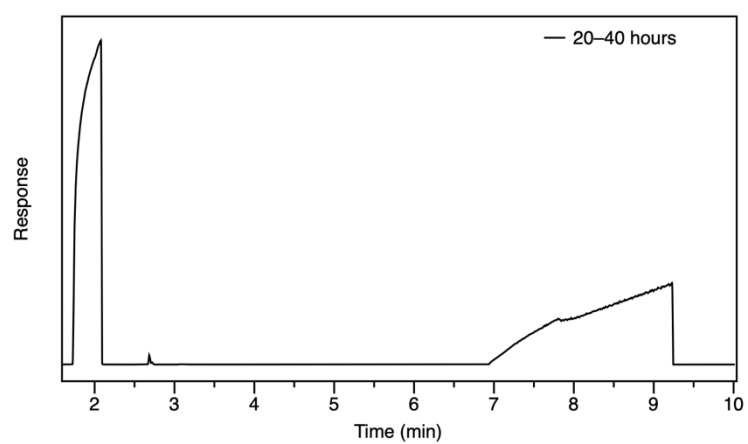
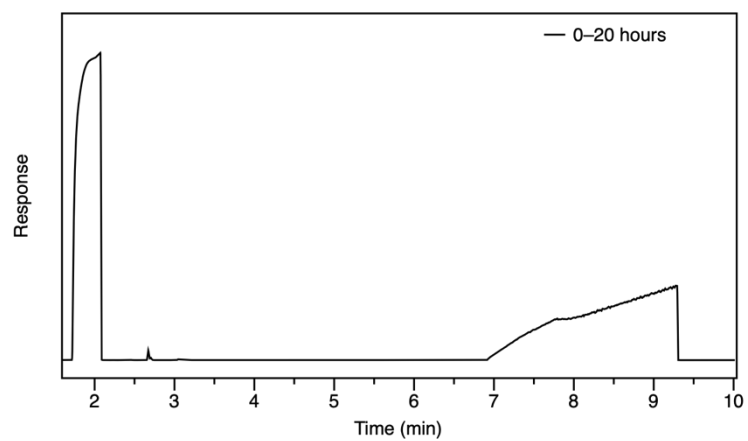


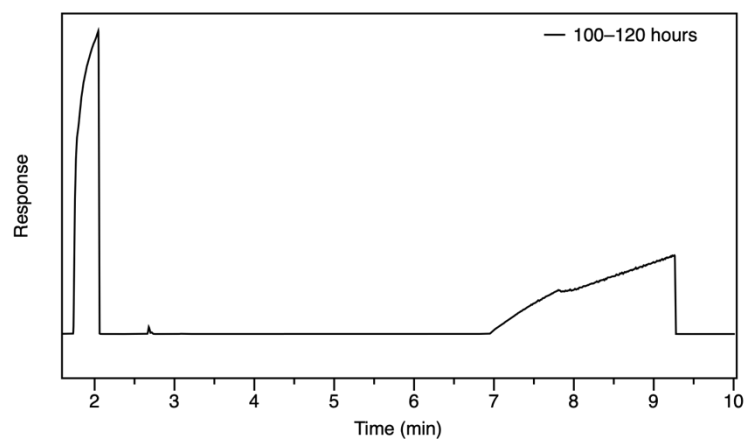
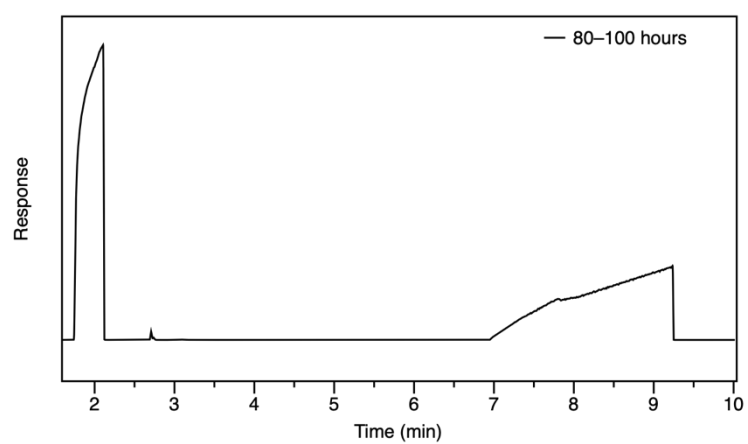
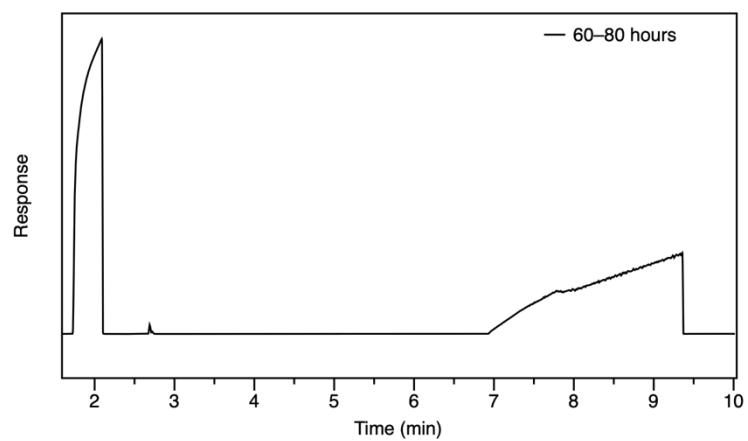
$$E_{\text{inter}} = -8.375 \text{ kcal/mol}$$



$$E_{\text{inter}} = -4.031 \text{ kcal/mol}$$

Fig. S40. Equilibrated configurations of PEI and PEI with IL, each with two types of gas molecules (CO₂ and N₂). The interaction energy (E_{inter}) between the gas molecules and the PEI systems is displayed below the figure. Polymers are illustrated using line models, while IL and gas molecules are depicted with ball-and-stick models for clarity.





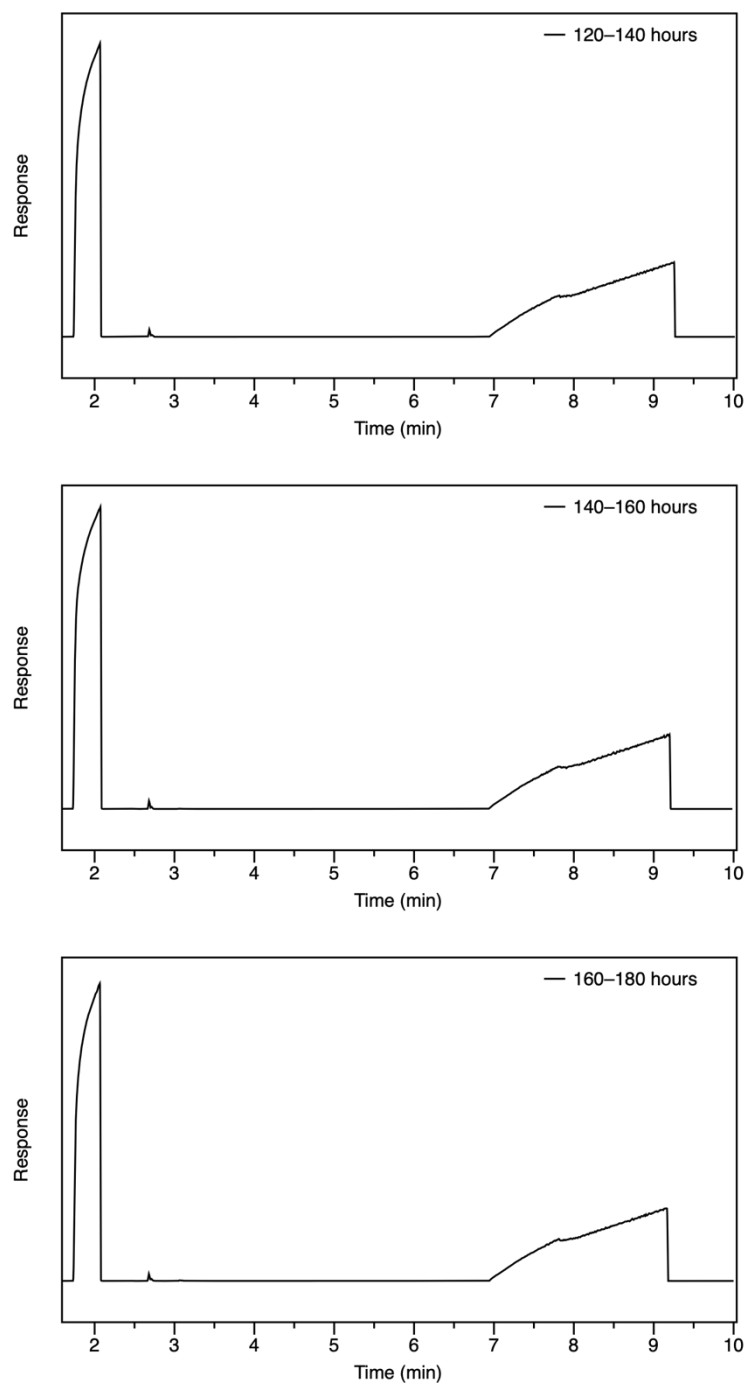


Fig. S41. GC data collected after the cycloaddition of CO₂ to propylene oxide from scale-up aerogel in continuous system at 70°C. Peak 2.05 and 9.09 min correspond to ethyl acetate and propylene carbonate.

Table S22. Numerical values for peak areas of products and by-products from scale-up aerogel in the continuous reactor at 70°C from 0 h to 180 h, along with calculated yield and selectivity.

Time (hours)	Area (uV*sec)		Yield (%)	Selectivity (%)
	By-product	Product		
0–20	413	187293.2	99.3	99.78
20–40	174.6	193825.1	98.9	99.91
40–60	200.6	200382.5	98.5	99.9
60–80	175.1	194382.3	99.2	99.91
80–100	269.3	192118.6	99.2	99.86
100–120	328.4	192839.3	98.6	99.83
120–140	602.7	193829.2	99.0	99.69
140–160	1133	175893.9	99.2	99.36
160–180	923.9	213929.5	99.3	99.57

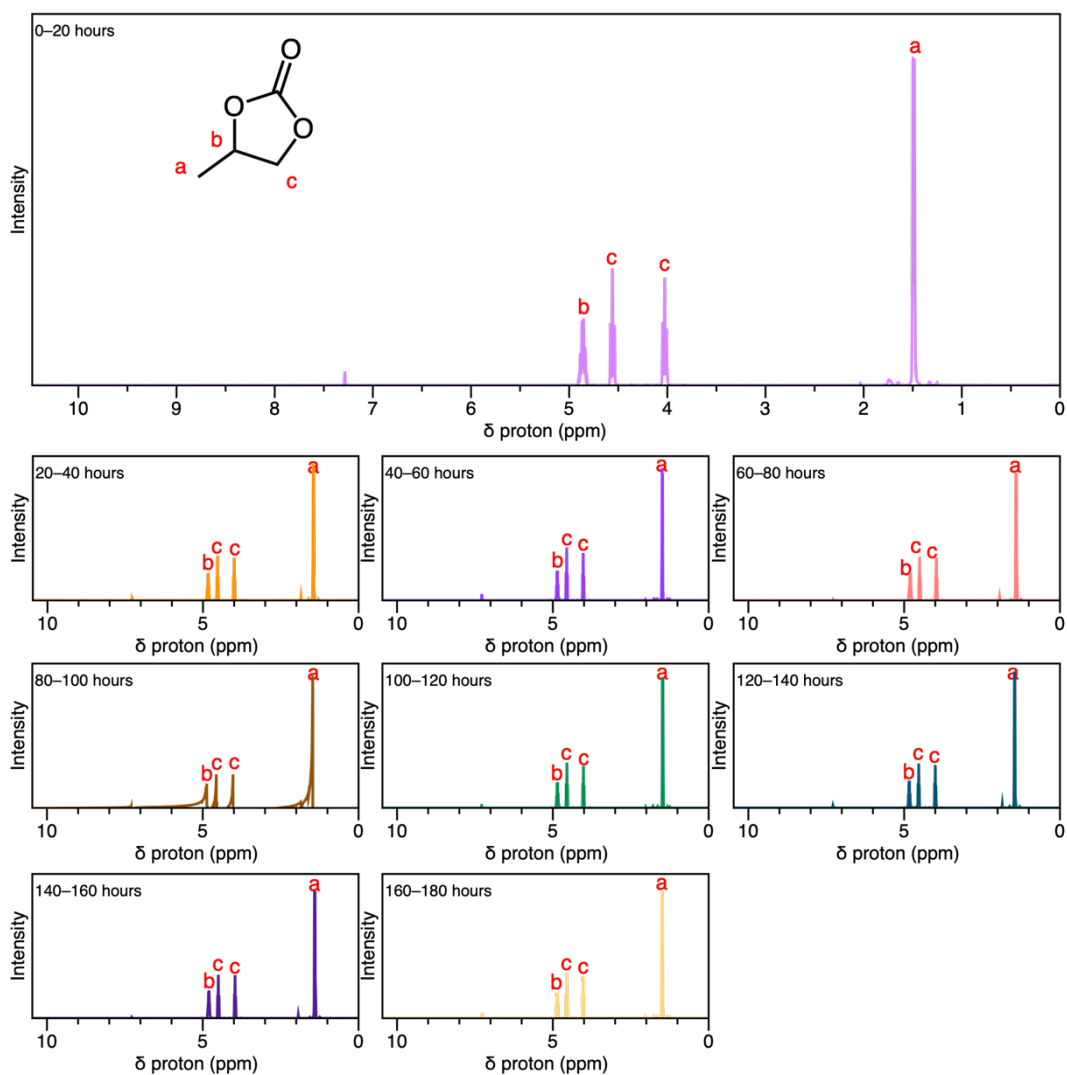


Fig. S42. ^1H -NMR spectra collected after the cycloaddition of CO_2 to propylene oxide from scale-up aerogel in continuous system at 70°C. Peaks for corresponding protons are marked in the spectrum.

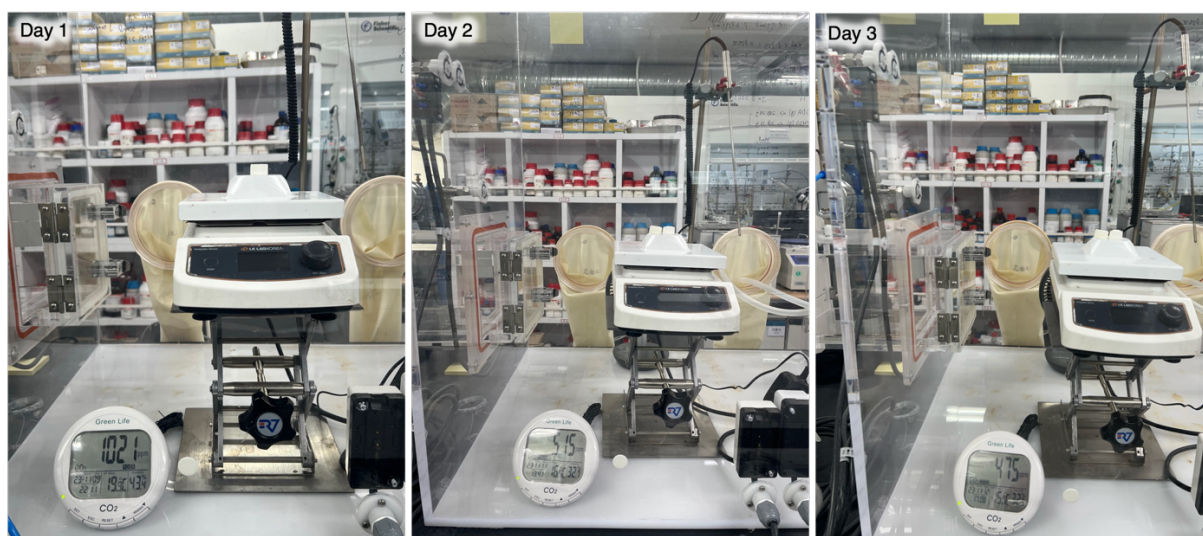


Fig. S43. Photographs illustrating the experimental setup and the progressive change in CO₂ concentration (ppm) over three consecutive days.

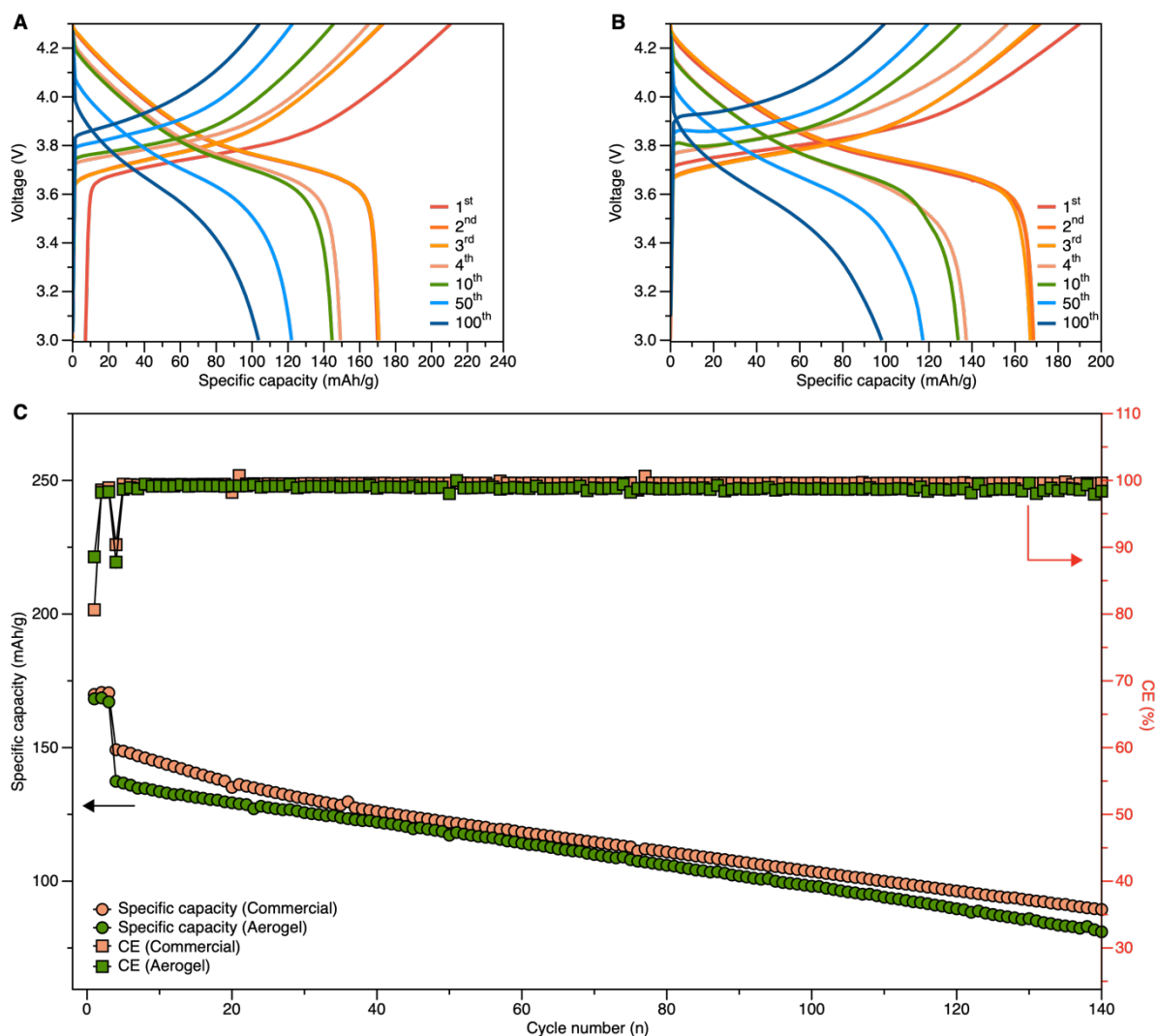


Fig. S44. Galvanostatic charge-discharge profiles of NCM523//graphite lithium ion batteries assembled with **(A)** commercial PC electrolyte and **(B)** synthesized PC electrolyte using aerogel catalyst. **(C)** Long-term cycling performances at C-rate of 0.1 C for 1-3 cycles and 1.0 C for following cycles.

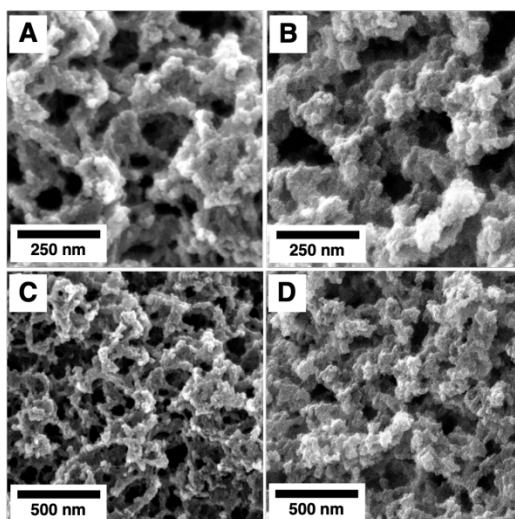
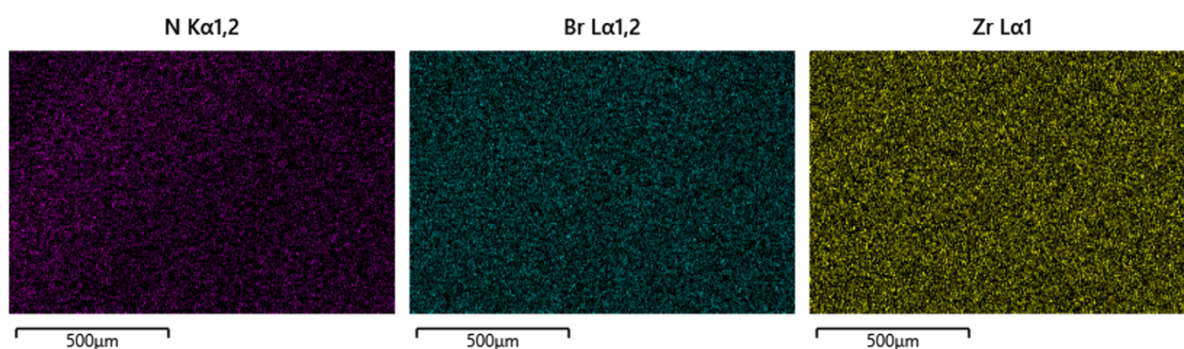


Fig. S45. SEM images of (A and C) PVMDMS@PVP aerogel and (B and D) undergone washing by ethanol three times @ 40°C for 12 hours after reaction ended.



Map Sum Spectrum		
Element	Wt%	Atomic %
N	50.35	84.78
Zn	8.63	3.11
Br	41.03	12.11
Total:	100.00	100.00

Fig. S46. EDX elemental mapping images of substances contained in ethanol after washing the aerogel.

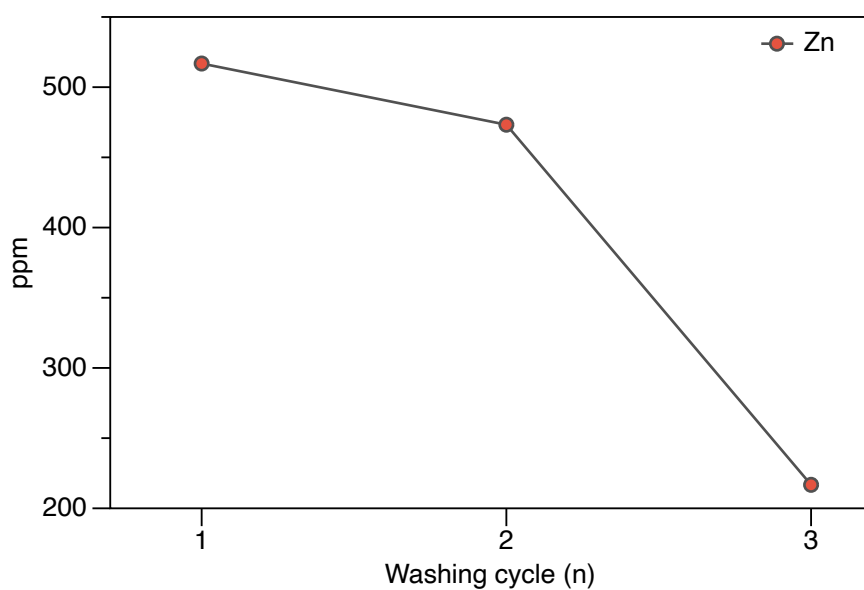


Fig. S47. Zn^{2+} concentration of the ethanol used for washing the aerogel to finish reaction.

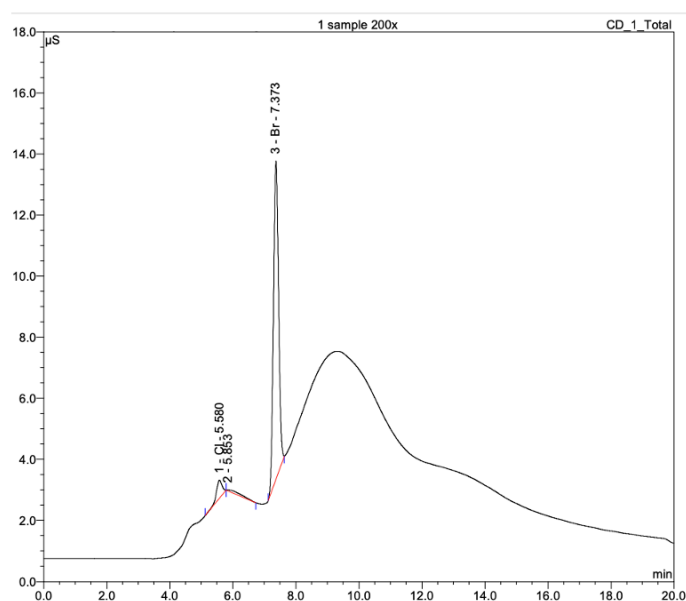


Fig. S48. Ion chromatography of the ethanol used for washing the aerogel to finish reaction.

Video S1.

Cycloaddition reaction of vaporized propylene oxide and carbon dioxide in a continuous reactor at 70°C using PVMDMS@PVP aerogel catalyst.

Video S2.

Cycloaddition reaction of vaporized propylene oxide and carbon dioxide in a continuous reactor at 70°C using the scaled-up PVMDMS@PVP aerogel catalyst.