

Supporting Information

The Hydrophilic Nature Trade-off of Supported Ionic Liquid Membranes on CO₂/CH₄ Separation Performance

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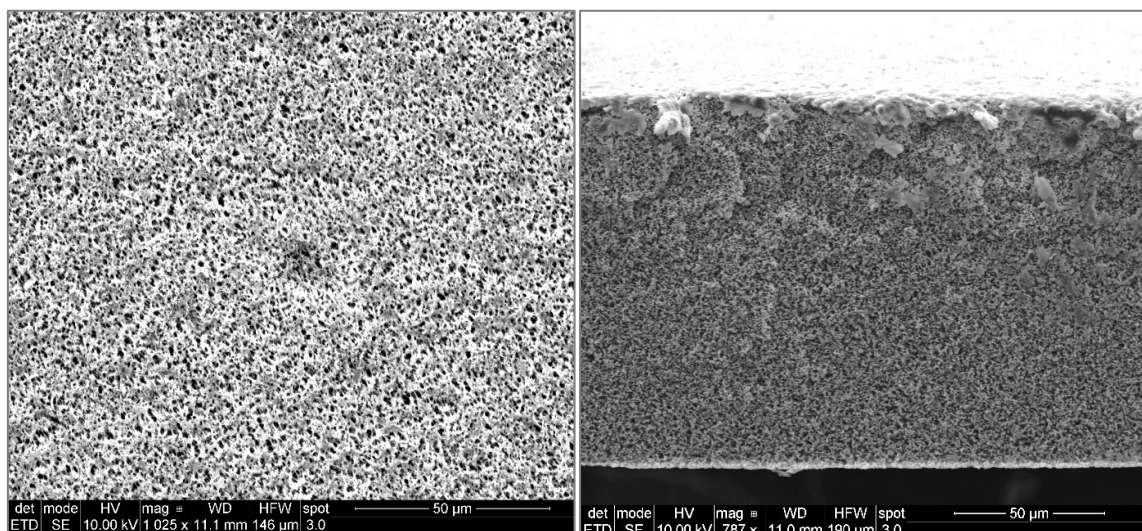


Figure S1. SEM pictures of the Durapore® hydrophobic PVDF membrane used in this work. Left: surface; Right: cross-section.

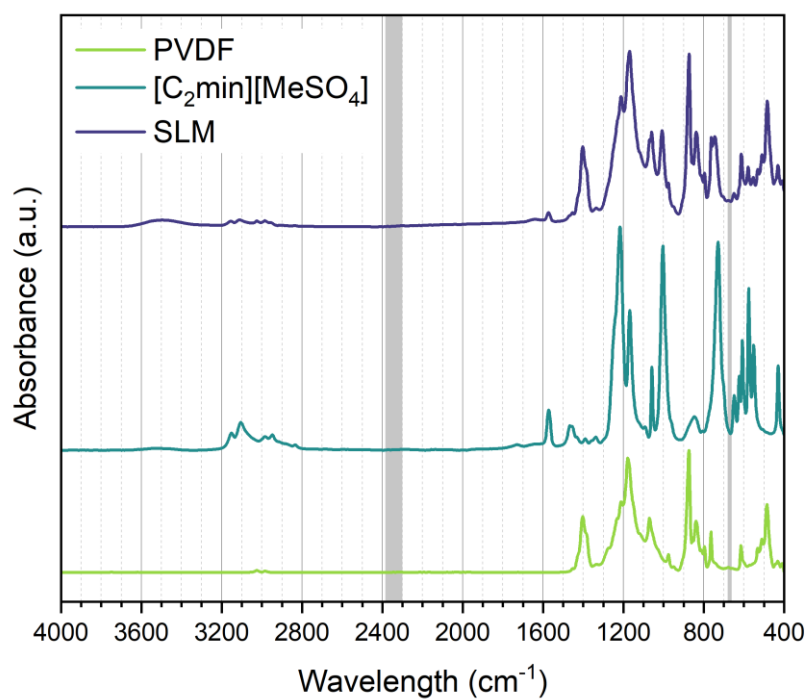


Figure S2. IR spectrum of the support (PVDF membrane), 1-ethyl-3-methylimidazolium methyl-sulfate, and prepared SLM used in this work.

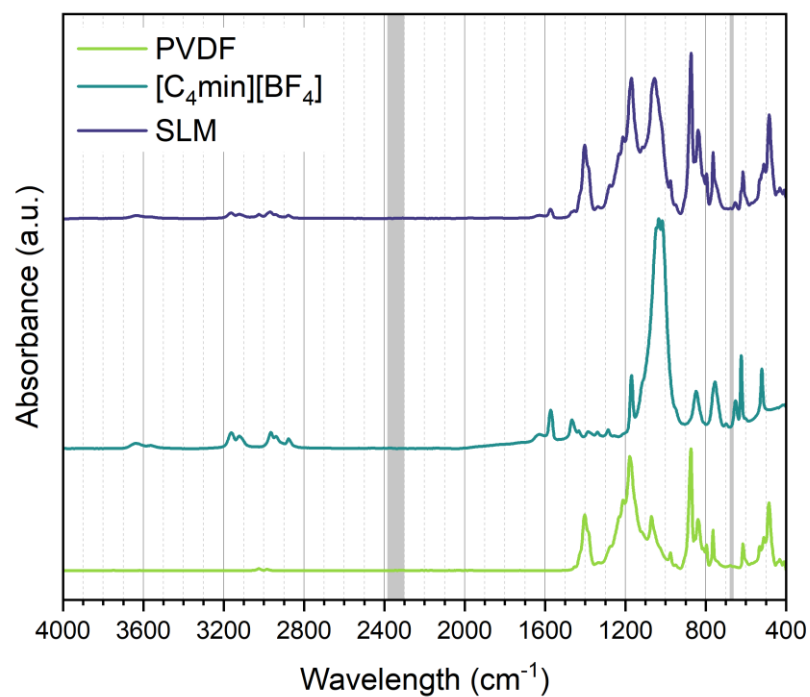


Figure S3. IR spectrum of the support (PVDF membrane), 1-butyl-3-methylimidazolium tetrafluoroborate, and prepared SLM used in this work.

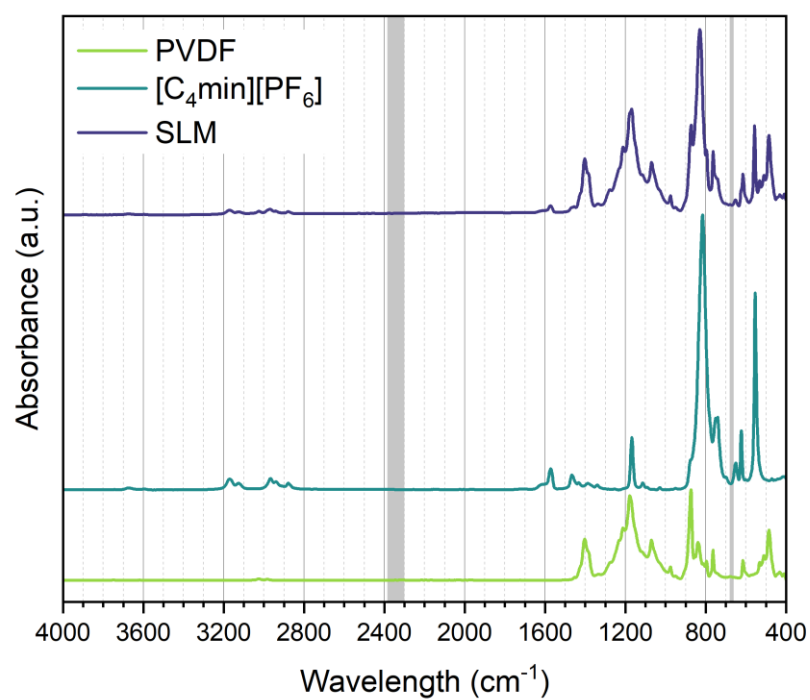


Figure S4. IR spectrum of the support (PVDF membrane), 1-butyl-3-methylimidazolium hexafluorophosphate, and prepared SLM used in this work.

Table S1. Experimental data for mixed gas separation with IL-based SLM.

SLM	Experiment Setting							Feed			Sweep			Permeate			Results		
	T °C	CO ₂ sccm	P psia	CH ₄ sccm	P psia	He sccm	P psia	CO ₂ mol/mol	CH ₄ mol/mol	p bar	CO ₂ mol/mol	CH ₄ mol/mol	p bar	q He mol/s	q CO ₂ mol/s	q CH ₄ mol/s	P CO ₂ Barrer	P CH ₄ Barrer	$\alpha_{i,j}$ -
[C ₂ min][MeSO ₄]	25.0	25.0	43.13	25.0	43.11	10.0	17.26	50%	50%	2.97	0.145%	0.006%	1.19	6.8E-06	9.9E-09	4.0E-10	186.7	7.7	24.2
		25.0	43.13	25.0	43.1	10.0	17.26	50%	50%	2.97	0.148%	0.006%	1.19	6.8E-06	1.0E-08	4.0E-10	191.2	7.5	25.5
		25.0	43.09	25.0	43.08	10.0	17.29	50%	50%	2.97	0.150%	0.006%	1.19	6.8E-06	1.0E-08	3.9E-10	193.9	7.5	26.0
[C ₂ min][MeSO ₄]	25.0	25.0	42.98	25.0	42.97	10.0	16.86	50%	50%	2.96	0.144%	0.006%	1.16	6.8E-06	9.8E-09	4.0E-10	187.0	7.6	24.6
		25.0	42.98	25.0	42.97	10.0	16.86	50%	50%	2.96	0.143%	0.006%	1.16	6.8E-06	9.8E-09	3.9E-10	185.9	7.5	24.8
		25.0	42.98	25.0	42.97	10.0	16.86	50%	50%	2.96	0.142%	0.006%	1.16	6.8E-06	9.7E-09	3.8E-10	184.3	7.3	25.4
[C ₂ min][MeSO ₄]	40.0	25.0	42.91	25.0	42.89	10.0	17.32	50%	50%	2.96	0.168%	0.007%	1.19	6.8E-06	1.1E-08	4.6E-10	218.2	8.8	24.8
		25.0	42.94	25.0	42.90	10.0	17.30	50%	50%	2.96	0.168%	0.007%	1.19	6.8E-06	1.1E-08	4.7E-10	218.2	8.9	24.7
		25.0	42.94	25.0	42.93	10.0	17.30	50%	50%	2.96	0.169%	0.008%	1.19	6.8E-06	1.2E-08	5.7E-10	219.1	10.8	20.3
[C ₂ min][MeSO ₄]	40.0	25.0	43.01	25.0	42.99	10.0	16.89	50%	50%	2.96	0.153%	0.006%	1.16	6.8E-06	1.0E-08	4.3E-10	197.6	8.1	24.4
		25.0	43.01	25.0	42.99	10.0	16.89	50%	50%	2.96	0.154%	0.006%	1.16	6.8E-06	1.1E-08	4.4E-10	200.0	8.3	24.0
		25.0	43.01	25.0	42.99	10.0	16.89	50%	50%	2.96	0.155%	0.006%	1.16	6.8E-06	1.1E-08	4.4E-10	200.9	8.3	24.1
[C ₄ min][BF ₄]	25.0	25.0	44.01	25.0	44.01	10.0	17.00	50%	50%	3.03	0.280%	0.013%	1.17	6.8E-06	1.9E-08	8.9E-10	355.3	16.4	21.6
		25.0	44.01	25.0	44.01	10.0	17.01	50%	50%	3.03	0.267%	0.012%	1.17	6.8E-06	1.8E-08	8.2E-10	339.1	15.2	22.3
		25.0	44.01	25.0	44.00	10.0	17.03	50%	50%	3.03	0.262%	0.011%	1.17	6.8E-06	1.8E-08	7.8E-10	331.9	14.5	22.8
[C ₄ min][BF ₄]	25.0	25.0	45.84	25.0	45.84	10.0	17.16	50%	50%	3.16	0.313%	0.013%	1.18	6.8E-06	2.1E-08	8.8E-10	381.9	15.7	24.4
		25.0	45.84	25.0	45.84	10.0	17.16	50%	50%	3.16	0.308%	0.012%	1.18	6.8E-06	2.1E-08	8.5E-10	375.4	15.1	24.8
		25.0	45.84	25.0	45.84	10.0	17.16	50%	50%	3.16	0.303%	0.012%	1.18	6.8E-06	2.1E-08	8.2E-10	369.1	14.7	25.2
[C ₄ min][BF ₄]	40.0	25.0	43.68	25.0	43.70	10.0	16.82	50%	50%	3.01	0.352%	0.017%	1.16	6.8E-06	2.4E-08	1.1E-09	451.1	21.4	21.0
		25.0	43.70	25.0	43.70	10.0	16.86	50%	50%	3.01	0.358%	0.017%	1.16	6.8E-06	2.4E-08	1.2E-09	458.2	21.9	20.9
		25.0	43.70	25.0	43.60	10.0	16.83	50%	50%	3.01	0.358%	0.017%	1.16	6.8E-06	2.4E-08	1.2E-09	459.2	22.0	20.9
[C ₄ min][BF ₄]	40.0	25.0	45.80	25.0	45.80	10.0	17.26	50%	50%	3.16	0.336%	0.015%	1.19	6.8E-06	2.3E-08	1.1E-09	410.4	18.7	21.9
		25.0	45.81	25.0	45.81	10.0	17.27	50%	50%	3.16	0.342%	0.016%	1.19	6.8E-06	2.3E-08	1.1E-09	417.7	19.5	21.4
		25.0	45.83	25.0	45.81	10.0	17.27	50%	50%	3.16	0.345%	0.016%	1.19	6.8E-06	2.4E-08	1.1E-09	421.5	19.9	21.2
[C ₄ min][PF ₆]	25.0	25.0	42.33	25.0	42.32	10.0	17.63	50%	50%	2.92	0.204%	0.013%	1.22	6.8E-06	1.4E-08	8.6E-10	268.3	16.5	16.3
		25.0	42.36	25.0	42.36	10.0	17.56	50%	50%	2.92	0.205%	0.013%	1.21	6.8E-06	1.4E-08	8.7E-10	270.1	16.8	16.1
		25.0	43.36	25.0	43.33	10.0	17.61	50%	50%	2.99	0.205%	0.013%	1.21	6.8E-06	1.4E-08	8.7E-10	264.1	16.3	16.2
[C ₄ min][PF ₆]	25.0	25.0	43.53	25.0	43.54	10.0	17.10	50%	50%	3.00	0.193%	0.015%	1.18	6.8E-06	1.3E-08	1.0E-09	247.1	18.7	13.2
		25.0	43.56	25.0	43.54	10.0	17.14	50%	50%	3.00	0.185%	0.012%	1.18	6.8E-06	1.3E-08	8.4E-10	237.1	15.8	15.0
		25.0	43.56	25.0	43.56	10.0	17.14	50%	50%	3.00	0.181%	0.011%	1.18	6.8E-06	1.2E-08	7.5E-10	231.2	14.0	16.5
[C ₄ min][PF ₆]	40.0	25.0	42.89	25.0	42.88	10.0	17.5	50%	50%	2.96	0.258%	0.019%	1.21	6.8E-06	1.8E-08	1.3E-09	336.0	24.4	13.7
		25.0	42.89	25.0	42.88	10.0	17.5	50%	50%	2.96	0.259%	0.019%	1.21	6.8E-06	1.8E-08	1.3E-09	336.9	25.1	13.4
		25.0	42.93	25.0	42.89	10.0	17.56	50%	50%	2.96	0.255%	0.019%	1.21	6.8E-06	1.7E-08	1.3E-09	332.0	24.3	13.7
[C ₄ min][PF ₆]	40.0	25.0	43.55	25.0	43.55	10.0	17.22	50%	50%	3.00	0.218%	0.014%	1.19	6.8E-06	1.5E-08	9.4E-10	278.8	17.7	15.8
		25.0	43.58	25.0	43.58	10.0	17.13	50%	50%	3.00	0.221%	0.014%	1.18	6.8E-06	1.5E-08	9.7E-10	282.9	18.2	15.6
		25.0	43.55	25.0	43.55	10.0	17.23	50%	50%	3.00	0.222%	0.014%	1.19	6.8E-06	1.5E-08	9.8E-10	284.1	18.3	15.5

Table S2. Capillary flow porometry of the Durapore® PVDF membrane used in this work measured with an IB-FT Porolux™ 1000 porometer using Porefil® (19.00 mN·m⁻¹) as the wetting liquid.

Dry curve		Wet curve	
Pressure	Flow	Pressure	Flow
bar	l/min	bar	l/min
0.00	0.00	0.00	0
0.90	2.04	1.30	0.41
1.51	3.89	1.61	3.21
2.08	5.93	2.10	5.51
2.70	8.44	2.50	7.31
3.31	11.07	2.90	9.13
3.93	14.10	3.35	11.09
4.49	17.08	3.76	13.05
5.09	20.59	4.17	15.13
5.71	24.52	4.53	17.12
6.27	28.35	4.93	19.45
6.88	32.83	5.33	21.86
-	-	5.72	24.45
-	-	6.10	27.01
-	-	6.48	29.74
-	-	6.87	32.65

Table S3. Log-normal pore size mean and variance estimation for a Durapore® PVDF membrane used in this work from capillary flow porometry for the cumulative distribution function (CDF) of the log-normal distribution fitting.¹

Interpolated dry curve	Equivalent pore size dp	Cumulative flow g'a	Incremental flow gd	Normalization factor K	dp distribution nd	Mean up	variance σp ²
l/min	μm	%	%	-	%		
0.0	0.699	-	-	-	6.6%	-	-
3.3	0.586	12.5%	38%	0.343	38%	0.22	5.8E-03
4.3	0.473	75.5%	40%	0.223	40%	0.19	4.5E-05
6.0	0.362	92.1%	11%	0.131	11%	0.04	1.1E-03
7.5	0.304	97.2%	4%	0.092	4%	0.01	8.8E-04
9.2	0.262	99.2%	1%	0.068	1%	0.00	3.5E-04
11.2	0.227	98.9%	0%	0.052	0%	0.00	-1.0E-04
13.2	0.202	98.8%	0%	0.041	0%	0.00	-7.3E-05
15.3	0.182	98.7%	0%	0.033	0%	0.00	-4.0E-05
17.3	0.168	98.7%	0%	0.028	0%	0.00	7.2E-05
19.7	0.154	98.9%	0%	0.024	0%	0.00	1.5E-04
22.1	0.143	99.0%	0%	0.020	0%	0.00	1.6E-04
24.6	0.133	99.2%	0%	0.018	0%	0.00	2.1E-04
27.2	0.125	99.4%	0%	0.016	0%	0.00	1.8E-04
29.9	0.117	99.5%	0%	0.014	0%	0.00	2.3E-04
Sum						0.462	0.00896
log form						-0.79	4.1E-02

Table S4. Log-normal cumulative distribution function (CDF) for a Durapore® PVDF membrane used in this work and IL/PVDF-SLM stability diagrams with upper and bottom bounds for the error bands.

Pore size dp	CDF	[C ₂ min][MeSO ₄]						[C ₄ min][BF ₄]						[C ₄ min][PF ₆]					
		Dry SLM			Wet SLM			Dry SLM			Wet SLM			Dry SLM			Wet SLM		
		Stability bar	upper bar	bottom bar	Stability bar	upper bar	bottom bar	Stability bar	upper bar	bottom bar	Stability bar	upper bar	bottom bar	Stability bar	upper bar	bottom bar	Stability bar	upper bar	bottom bar
μm	%																		
0.92	100%	2.0	2.2	1.9	1.1	1.3	0.9	1.9	1.9	1.9	1.4	1.4	1.3	1.6	1.7	1.5	1.6	1.7	1.6
0.89	100%	2.1	2.2	2.0	1.1	1.3	0.9	2.0	2.0	1.9	1.4	1.4	1.4	1.7	1.7	1.6	1.7	1.8	1.6
0.86	100%	2.2	2.3	2.1	1.1	1.3	0.9	2.0	2.0	2.0	1.5	1.5	1.4	1.7	1.8	1.6	1.7	1.8	1.7
0.83	100%	2.3	2.4	2.1	1.2	1.4	1.0	2.1	2.1	2.1	1.5	1.6	1.5	1.8	1.9	1.7	1.8	1.9	1.7
0.80	100%	2.4	2.5	2.2	1.2	1.4	1.0	2.2	2.2	2.2	1.6	1.6	1.5	1.8	1.9	1.8	1.9	2.0	1.8
0.77	100%	2.5	2.6	2.3	1.3	1.5	1.0	2.3	2.3	2.2	1.6	1.7	1.6	1.9	2.0	1.8	2.0	2.0	1.9
0.74	99%	2.56	2.70	2.41	1.33	1.56	1.09	2.36	2.39	2.34	1.71	1.75	1.66	2.00	2.09	1.90	2.04	2.13	1.95
0.71	99%	2.7	2.8	2.5	1.4	1.6	1.1	2.5	2.5	2.4	1.8	1.8	1.7	2.1	2.2	2.0	2.1	2.2	2.0
0.68	98%	2.8	2.9	2.6	1.4	1.7	1.2	2.6	2.6	2.6	1.9	1.9	1.8	2.2	2.3	2.1	2.2	2.3	2.1
0.65	96%	2.9	3.1	2.8	1.5	1.8	1.2	2.7	2.7	2.7	2.0	2.0	1.9	2.3	2.4	2.2	2.3	2.4	2.2
0.62	94%	3.1	3.2	2.9	1.6	1.9	1.3	2.8	2.9	2.8	2.0	2.1	2.0	2.4	2.5	2.3	2.4	2.6	2.3
0.59	90%	3.2	3.4	3.1	1.7	2.0	1.4	3.0	3.0	3.0	2.2	2.2	2.1	2.5	2.6	2.4	2.6	2.7	2.5
0.55	84%	3.4	3.6	3.2	1.8	2.1	1.5	3.2	3.2	3.1	2.3	2.3	2.2	2.7	2.8	2.5	2.7	2.8	2.6
0.52	76%	3.6	3.8	3.4	1.9	2.2	1.5	3.3	3.4	3.3	2.4	2.5	2.3	2.8	3.0	2.7	2.9	3.0	2.7
0.49	66%	3.8	4.0	3.6	2.0	2.3	1.6	3.5	3.6	3.5	2.6	2.6	2.5	3.0	3.1	2.8	3.1	3.2	2.9
0.46	54%	4.1	4.3	3.9	2.1	2.5	1.7	3.8	3.8	3.7	2.7	2.8	2.7	3.2	3.3	3.0	3.3	3.4	3.1
0.43	41%	4.4	4.6	4.1	2.3	2.7	1.9	4.1	4.1	4.0	2.9	3.0	2.9	3.4	3.6	3.3	3.5	3.7	3.3
0.40	27%	4.7	5.0	4.5	2.5	2.9	2.0	4.4	4.4	4.3	3.2	3.2	3.1	3.7	3.9	3.5	3.8	3.9	3.6
0.37	16%	5.1	5.4	4.8	2.7	3.1	2.2	4.7	4.8	4.7	3.4	3.5	3.3	4.0	4.2	3.8	4.1	4.3	3.9
0.34	8%	5.6	5.9	5.3	2.9	3.4	2.4	5.2	5.2	5.1	3.7	3.8	3.6	4.4	4.6	4.1	4.5	4.7	4.2
0.31	3%	6.1	6.5	5.8	3.2	3.8	2.6	5.7	5.7	5.6	4.1	4.2	4.0	4.8	5.0	4.6	4.9	5.1	4.7
0.28	1%	6.8	7.2	6.4	3.5	4.2	2.9	6.3	6.4	6.2	4.6	4.7	4.4	5.3	5.6	5.1	5.4	5.7	5.2
0.25	0%	7.7	8.1	7.2	4.0	4.7	3.3	7.1	7.2	7.0	5.1	5.3	5.0	6.0	6.3	5.7	6.1	6.4	5.8
0.22	0%	8.8	9.3	8.3	4.6	5.4	3.7	8.1	8.2	8.0	5.9	6.0	5.7	6.8	7.2	6.5	7.0	7.3	6.7
0.18	0%	10.2	10.8	9.7	5.3	6.3	4.4	9.5	9.6	9.4	6.8	7.0	6.7	8.0	8.4	7.6	8.2	8.5	7.8
0.15	0%	12.3	13.0	11.6	6.4	7.5	5.2	11.3	11.5	11.2	8.2	8.4	8.0	9.6	10.0	9.1	9.8	10.2	9.3
0.12	0%	15.3	16.2	14.5	8.0	9.4	6.6	14.2	14.3	14.0	10.2	10.5	10.0	12.0	12.6	11.4	12.2	12.8	11.7
0.09	0%	20.5	21.6	19.3	10.6	12.5	8.7	18.9	19.1	18.7	13.7	14.0	13.3	16.0	16.7	15.2	16.3	17.1	15.6
0.06	0%	30.7	32.4	29.0	15.9	18.8	13.1	28.4	28.7	28.1	20.5	21.0	20.0	24.0	25.1	22.8	24.5	25.6	23.4
0.03	0%	61.4	64.8	58.0	31.9	37.5	26.2	56.7	57.4	56.1	41.0	42.0	39.9	47.9	50.2	45.6	49.0	51.2	46.7

Table S5.1. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₂min][MeSO₄]-based SLM. *Part 1.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
0.0	-0.001	0.0	-0.002	0.00	0.000	0.0	0.003
2.5	0.002	2.5	0.000	3.33	0.004	3.3	0.009
5.1	-0.001	5.1	0.001	6.66	0.012	6.7	0.022
7.6	0.003	7.6	-0.001	9.99	0.021	10.0	0.044
10.1	0.011	10.1	-0.001	13.32	0.032	13.3	0.072
12.7	0.014	12.7	-0.002	16.66	0.043	16.7	0.100
15.2	0.030	15.2	0.001	19.99	0.050	20.0	0.130
17.7	0.040	17.7	0.000	23.32	0.069	23.3	0.174
20.2	0.054	20.2	-0.002	26.65	0.097	26.6	0.207
22.8	0.073	22.8	0.001	29.98	0.137	30.0	0.247
25.3	0.096	25.3	0.000	33.31	0.177	33.3	0.282
27.8	0.114	27.8	-0.002	36.64	0.222	36.6	0.318
30.4	0.142	30.4	0.003	39.97	0.264	40.0	0.355
32.9	0.163	32.9	0.005	43.30	0.311	43.3	0.391
35.4	0.188	35.4	0.010	46.63	0.354	46.6	0.423
38.0	0.210	38.0	0.015	49.97	0.390	50.0	0.459
40.5	0.235	40.5	0.024	53.30	0.435	53.3	0.499
43.0	0.263	43.0	0.035	56.63	0.462	56.6	0.526
45.5	0.278	45.5	0.049	59.96	0.498	60.0	0.568
48.1	0.303	48.1	0.063	63.29	0.525	63.3	0.596
50.6	0.327	50.6	0.079	66.62	0.544	66.6	0.628
53.1	0.346	53.1	0.094	69.95	0.564	70.0	0.659
54.0	0.360	55.7	0.115	73.28	0.582	73.3	0.686
54.8	0.367	58.2	0.134	76.61	0.598	76.6	0.705
55.7	0.369	60.7	0.151	79.94	0.609	79.9	0.736
56.6	0.375	63.3	0.172	83.28	0.615	83.3	0.757
57.4	0.382	64.1	0.177	86.61	0.623	86.6	0.783
58.3	0.397	65.0	0.182	89.94	0.636	89.9	0.794
59.1	0.395	65.8	0.190	93.27	0.649	93.3	0.811
60.0	0.402	66.7	0.194	96.60	0.656	96.6	0.830
60.9	0.413	67.5	0.202	99.93	0.670	99.9	0.849
61.7	0.418	68.4	0.208	103.26	0.677	103.3	0.859
62.6	0.429	69.3	0.209	106.59	0.690	106.6	0.869
63.4	0.433	70.1	0.218	109.92	0.697	109.9	0.878
64.3	0.432	71.0	0.225	113.25	0.701	113.3	0.891
65.2	0.442	71.8	0.230	116.59	0.708	116.6	0.896
66.0	0.452	72.7	0.236	119.92	0.716	118.3	0.905
66.9	0.457	73.6	0.242	123.25	0.729	119.9	0.908
67.7	0.466	74.4	0.244	126.58	0.735	121.6	0.910
68.6	0.470	75.3	0.249	129.91	0.749	123.2	0.915
69.5	0.473	76.1	0.256	133.24	0.749	124.9	0.921
70.3	0.481	77.0	0.263	136.57	0.762	126.6	0.920
71.2	0.483	77.9	0.267	138.24	0.758	128.2	0.929
72.0	0.489	78.7	0.271	139.90	0.768	129.9	0.931
72.9	0.497	79.6	0.276	141.57	0.768	131.6	0.930
73.7	0.508	80.4	0.284	143.23	0.771	133.2	0.936
74.6	0.513	81.3	0.289	144.90	0.770	134.9	0.939
75.5	0.514	82.1	0.292	146.56	0.772	136.6	0.939
76.3	0.524	83.0	0.298	148.23	0.774	138.2	0.948
77.2	0.527	83.9	0.299	149.89	0.781	139.9	0.951
78.0	0.524	84.7	0.307	151.56	0.773	141.6	0.950
78.9	0.541	85.6	0.310	153.22	0.791	143.2	0.948
79.8	0.538	86.4	0.314	154.89	0.789	144.9	0.956
80.6	0.545	87.3	0.313	156.55	0.790	146.6	0.953
81.5	0.552	88.2	0.325	158.22	0.791	148.2	0.956
82.3	0.556	89.0	0.327	159.88	0.796	149.9	0.969
83.2	0.557	89.9	0.331	161.55	0.801	151.6	0.964
84.1	0.570	90.7	0.335	163.21	0.800	153.2	0.963
84.9	0.562	91.6	0.341	164.88	0.797	154.9	0.968

Table S5.2. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₂min][MeSO₄]-based SLM. *Part 2.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
85.8	0.582	92.5	0.346	166.54	0.807	156.5	0.968
86.6	0.580	93.3	0.348	168.21	0.804	158.2	0.967
87.5	0.586	94.2	0.353	169.87	0.809	159.9	0.970
88.3	0.596	95.0	0.354	171.54	0.811	161.5	0.979
89.2	0.598	95.9	0.360	173.20	0.812	163.2	0.976
90.1	0.602	96.8	0.363	174.87	0.813	164.9	0.971
90.9	0.607	97.6	0.369	176.53	0.818	166.5	0.981
91.8	0.611	98.5	0.371	178.20	0.820	168.2	0.980
92.6	0.616	99.3	0.374	179.86	0.819	169.9	0.983
93.5	0.618	100.2	0.375	181.53	0.822	171.5	0.984
94.4	0.622	101.0	0.381	183.19	0.830	173.2	0.985
95.2	0.630	101.9	0.384	184.86	0.832	174.9	0.985
96.1	0.636	102.8	0.391	186.52	0.834	176.5	0.987
96.9	0.634	103.6	0.392	188.19	0.824	178.2	0.988
97.8	0.640	104.5	0.395	189.85	0.834	179.9	0.984
98.7	0.645	105.3	0.394	191.52	0.835	181.5	0.988
99.5	0.645	106.2	0.402	193.18	0.841	183.2	0.986
100.4	0.648	107.1	0.404	194.85	0.832	184.9	0.985
101.2	0.657	107.9	0.409	196.51	0.844	186.5	0.988
102.1	0.663	108.8	0.410	198.18	0.841	188.2	0.992
103.0	0.667	109.6	0.412	199.84	0.846	189.8	0.996
103.8	0.670	110.5	0.420	201.51	0.847	191.5	0.992
104.7	0.668	111.4	0.420	203.17	0.844	193.2	0.990
105.5	0.674	112.2	0.426	204.84	0.848	194.8	0.991
106.4	0.678	113.1	0.426	206.50	0.848	196.5	0.993
107.2	0.677	113.9	0.430	208.17	0.847	198.2	0.994
108.1	0.690	114.8	0.431	209.83	0.850	199.8	0.997
109.0	0.686	115.6	0.434	211.50	0.853	201.5	0.988
109.8	0.693	116.5	0.436	213.16	0.850	203.2	0.989
110.7	0.701	117.4	0.438	214.83	0.857	204.8	0.989
111.5	0.702	118.2	0.443	216.49	0.859	206.5	0.989
112.4	0.709	119.1	0.445	218.16	0.860	208.2	0.995
113.3	0.711	119.9	0.443	219.82	0.864	209.8	0.998
114.1	0.706	120.8	0.447	221.49	0.868	211.5	0.998
115.0	0.721	121.7	0.452	223.15	0.864	213.2	0.998
115.8	0.713	122.5	0.454	224.82	0.865	214.8	1.000
116.7	0.722	123.4	0.453	226.48	0.869	216.5	0.989
117.6	0.721	124.2	0.457	228.15	0.867	218.2	0.996
118.4	0.725	125.1	0.460	229.81	0.867	219.8	0.993
119.3	0.723	126.0	0.464	231.48	0.870	221.5	0.996
120.1	0.731	126.8	0.464	233.14	0.874	223.1	0.998
121.0	0.739	127.7	0.472	234.81	0.876	224.8	0.997
121.9	0.737	128.5	0.470	236.47	0.874	226.5	0.988
122.7	0.738	129.4	0.471	238.14	0.871	228.1	0.989
123.6	0.742	130.3	0.471	239.80	0.879	229.8	0.998
124.4	0.741	131.1	0.477	241.47	0.877	231.5	0.986
125.3	0.753	132.0	0.477	243.13	0.877	233.1	0.993
126.1	0.758	132.8	0.480	244.80	0.876	234.8	0.995
127.0	0.756	133.7	0.484	246.46	0.873	236.5	0.989
127.9	0.763	134.5	0.481	248.13	0.881	238.1	0.997
128.7	0.764	135.4	0.489	249.79	0.887	239.8	0.987
129.6	0.763	136.3	0.489	251.46	0.886	241.5	0.997
130.4	0.771	137.1	0.491	253.12	0.882	243.1	0.989
131.3	0.775	138.0	0.497	254.79	0.891	244.8	0.990
132.2	0.777	138.8	0.497	256.45	0.888	246.5	0.989
133.0	0.776	139.7	0.495	258.12	0.893	248.1	0.994
133.9	0.786	140.6	0.497	259.78	0.892	249.8	0.985
134.7	0.779	141.4	0.500	261.45	0.895	251.5	0.988
135.6	0.789	142.3	0.506	263.11	0.897	253.1	0.983

Table S5.3. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₂min][MeSO₄]-based SLM. *Part 3.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
136.5	0.785	143.1	0.502	264.78	0.894	254.8	0.986
137.3	0.790	144.0	0.504	266.44	0.901	256.4	0.986
138.2	0.796	144.9	0.509	268.11	0.894	258.1	0.980
139.0	0.793	145.7	0.509	269.77	0.897	259.8	0.991
139.9	0.799	146.6	0.506	271.44	0.893	261.4	0.982
140.7	0.803	147.4	0.511	273.10	0.893	263.1	0.988
141.6	0.799	148.3	0.511	274.77	0.896	264.8	0.985
142.5	0.799	149.2	0.515	276.43	0.901	266.4	0.992
143.3	0.816	150.0	0.518	278.10	0.910	268.1	0.982
144.2	0.806	150.9	0.515	279.76	0.904	269.8	0.987
145.0	0.810	151.7	0.521	281.43	0.909	271.4	0.984
145.9	0.816	152.6	0.524	283.09	0.905	273.1	0.987
146.8	0.814	153.4	0.520	284.76	0.905	274.8	0.986
147.6	0.819	154.3	0.523	286.42	0.899	276.4	0.984
148.5	0.817	155.2	0.528	288.09	0.908	278.1	0.978
149.3	0.831	156.0	0.527	289.75	0.909	279.8	0.979
150.2	0.833	156.9	0.530	291.42	0.906	281.4	0.982
151.1	0.823	157.7	0.530	293.08	0.906	283.1	0.982
151.9	0.825	158.6	0.535	294.75	0.910	284.8	0.982
152.8	0.828	159.5	0.533	296.41	0.913	286.4	0.977
153.6	0.830	160.3	0.534	298.08	0.915	288.1	0.977
154.5	0.838	161.2	0.540	299.74	0.915	289.7	0.985
155.4	0.840	162.0	0.536	301.41	0.914	291.4	0.977
156.2	0.830	162.9	0.542	303.07	0.918	293.1	0.973
157.1	0.843	163.8	0.541	304.74	0.909	294.7	0.982
157.9	0.839	164.6	0.545	306.40	0.919	296.4	0.977
158.8	0.844	165.5	0.549	308.07	0.920	298.1	0.978
159.6	0.842	166.3	0.547	309.73	0.920	299.7	0.973
160.5	0.852	167.2	0.547	311.40	0.922	301.4	0.975
161.4	0.846	168.0	0.547	313.06	0.919	303.1	0.971
162.2	0.852	168.9	0.545	314.73	0.913	304.7	0.976
163.1	0.856	169.8	0.549	316.39	0.923	306.4	0.979
163.9	0.853	170.6	0.555	318.06	0.920	308.1	0.977
164.8	0.860	171.5	0.556	319.72	0.918	309.7	0.970
165.7	0.861	172.3	0.552	321.39	0.931	311.4	0.974
166.5	0.861	173.2	0.554	323.05	0.929	313.1	0.976
167.4	0.866	174.1	0.559	324.72	0.926	314.7	0.967
168.2	0.862	174.9	0.557	326.38	0.928	316.4	0.972
169.1	0.865	175.8	0.559	328.05	0.925	318.1	0.974
170.0	0.872	176.6	0.559	329.71	0.928	319.7	0.973
170.8	0.870	177.5	0.562	331.38	0.922	321.4	0.969
171.7	0.876	178.4	0.563	333.04	0.929	323.0	0.968
172.5	0.869	179.2	0.562	334.71	0.928	324.7	0.964
173.4	0.881	180.1	0.567	336.37	0.928	326.4	0.968
174.2	0.878	180.9	0.569	338.04	0.931	328.0	0.972
175.1	0.872	181.8	0.568	339.70	0.941	329.7	0.971
176.0	0.886	182.7	0.572	341.37	0.935	331.4	0.964
176.8	0.874	183.5	0.573	343.03	0.932	333.0	0.964
177.7	0.885	184.4	0.569	344.70	0.934	334.7	0.967
178.5	0.891	185.2	0.572	346.36	0.934	336.4	0.970
179.4	0.893	186.1	0.571	348.03	0.928	338.0	0.966
180.3	0.891	186.9	0.573	349.69	0.940	339.7	0.969
181.1	0.891	187.8	0.574	351.36	0.937	341.4	0.972
182.0	0.888	188.7	0.577	353.02	0.940	343.0	0.965
182.8	0.885	189.5	0.575	354.69	0.937	344.7	0.962
183.7	0.890	190.4	0.580	356.35	0.941	346.4	0.965
184.6	0.905	191.2	0.584	358.02	0.938	348.0	0.959
185.4	0.899	192.1	0.584	359.68	0.940	349.7	0.963
186.3	0.895	193.0	0.580	361.35	0.936	351.4	0.965

Table S5.4. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₂min][MeSO₄]-based SLM. *Part 4.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
187.1	0.897	193.8	0.583	363.01	0.941	353.0	0.960
188.0	0.902	194.7	0.587	364.68	0.939	354.7	0.965
188.9	0.895	195.5	0.585	366.34	0.945	356.3	0.967
189.7	0.906	196.4	0.584	368.01	0.945	358.0	0.962
190.6	0.908	197.3	0.589	369.67	0.946	359.7	0.968
191.4	0.900	198.1	0.587	371.34	0.948	361.3	0.965
192.3	0.905	199.0	0.593	373.00	0.947	363.0	0.964
193.1	0.908	199.8	0.592	374.67	0.945	364.7	0.968
194.0	0.904	200.7	0.589	376.33	0.945	366.3	0.960
194.9	0.913	201.5	0.592	378.00	0.949	368.0	0.955
195.7	0.915	202.4	0.597	379.66	0.948	369.7	0.953
196.6	0.916	203.3	0.593	381.33	0.950	371.3	0.961
197.4	0.904	204.1	0.596	382.99	0.949	373.0	0.960
198.3	0.919	205.0	0.596	384.66	0.945	374.7	0.955
199.2	0.921	205.8	0.598	386.32	0.947	376.3	0.955
200.0	0.915	206.7	0.592	387.99	0.949	378.0	0.950
200.9	0.914	207.6	0.598	389.65	0.954	379.7	0.955
201.7	0.920	208.4	0.599	391.32	0.951	381.3	0.963
202.6	0.918	209.3	0.603	392.98	0.947	383.0	0.956
203.5	0.919	210.1	0.599	394.65	0.953	384.7	0.954
204.3	0.922	211.0	0.606	396.31	0.958	386.3	0.956
205.2	0.930	211.9	0.602	397.98	0.956	388.0	0.953
206.0	0.918	212.7	0.606	399.64	0.950	389.6	0.949
206.9	0.933	213.6	0.608	401.31	0.951	391.3	0.953
207.8	0.931	214.4	0.602	402.97	0.957	393.0	0.950
208.6	0.932	215.3	0.604	404.64	0.954	394.6	0.949
209.5	0.924	216.2	0.603	406.30	0.963	396.3	0.949
210.3	0.928	217.0	0.611	407.97	0.959	398.0	0.960
211.2	0.939	217.9	0.603	409.63	0.954	399.6	0.954
212.0	0.930	218.7	0.611	411.30	0.956	401.3	0.949
212.9	0.939	219.6	0.609	412.96	0.952	403.0	0.954
213.8	0.935	220.4	0.611	414.63	0.957	404.6	0.948
214.6	0.925	221.3	0.610	416.29	0.959	406.3	0.955
215.5	0.935	222.2	0.615	417.96	0.959	408.0	0.947
216.3	0.935	223.0	0.615	419.62	0.959	409.6	0.950
217.2	0.940	223.9	0.613	421.29	0.957	411.3	0.945
218.1	0.944	224.7	0.616	422.95	0.957	413.0	0.949
218.9	0.937	225.6	0.614	424.62	0.959	414.6	0.944
219.8	0.938	226.5	0.610	426.28	0.954	416.3	0.951
220.6	0.936	227.3	0.615	427.95	0.961	418.0	0.947
221.5	0.947	228.2	0.613	429.61	0.957	419.6	0.953
222.4	0.941	229.0	0.614	431.28	0.956	421.3	0.953
223.2	0.950	229.9	0.621	432.94	0.963	422.9	0.945
224.1	0.949	230.8	0.621	434.61	0.962	424.6	0.951
224.9	0.955	231.6	0.617	436.27	0.955	426.3	0.951
225.8	0.947	232.5	0.619	437.94	0.966	427.9	0.945
226.6	0.958	233.3	0.621	439.60	0.967	429.6	0.946
227.5	0.957	234.2	0.621	441.27	0.972	431.3	0.942
228.4	0.954	235.1	0.620	442.93	0.965	432.9	0.944
229.2	0.954	235.9	0.621	444.60	0.965	434.6	0.943
230.1	0.953	236.8	0.621	446.26	0.967	436.3	0.951
230.9	0.952	237.6	0.625	447.93	0.966	437.9	0.942
231.8	0.959	238.5	0.620	449.59	0.962	439.6	0.940
232.7	0.950	239.3	0.624	451.26	0.966	441.3	0.939
233.5	0.961	240.2	0.626	452.92	0.965	442.9	0.938
234.4	0.965	241.1	0.623	454.59	0.963	444.6	0.940
235.2	0.961	241.9	0.625	456.25	0.968	446.3	0.948
236.1	0.952	242.8	0.626	457.92	0.967	447.9	0.940
237.0	0.959	243.6	0.627	459.58	0.971	449.6	0.949

Table S5.5. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₂min][MeSO₄]-based SLM. *Part 5.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
237.8	0.963	244.5	0.625	461.25	0.966	451.3	0.946
238.7	0.971	245.4	0.632	462.91	0.976	452.9	0.950
239.5	0.960	246.2	0.631	464.58	0.971	454.6	0.940
240.4	0.966	247.1	0.629	466.24	0.973	456.2	0.939
241.3	0.963	247.9	0.628	467.91	0.972	457.9	0.938
242.1	0.964	248.8	0.631	469.57	0.973	459.6	0.943
243.0	0.972	249.7	0.636	471.24	0.970	461.2	0.942
243.8	0.960	250.5	0.629	472.90	0.976	462.9	0.939
244.7	0.969	251.4	0.633	474.57	0.965	464.6	0.940
245.5	0.960	252.2	0.632	476.23	0.975	466.2	0.930
246.4	0.971	253.1	0.630	477.90	0.971	467.9	0.936
247.3	0.966	253.9	0.636	479.56	0.972	469.6	0.936
248.1	0.971	254.8	0.638	481.23	0.971	471.2	0.937
249.0	0.980	255.7	0.634	482.89	0.973	472.9	0.937
249.8	0.972	256.5	0.633	484.56	0.980	474.6	0.960
250.7	0.967	257.4	0.639	486.22	0.975	476.2	0.936
251.6	0.973	258.2	0.637	487.89	0.979	477.9	0.931
252.4	0.975	259.1	0.639	489.55	0.972	479.6	0.936
253.3	0.972	260.0	0.644	491.22	0.974	481.2	0.935
254.1	0.971	260.8	0.638	492.88	0.975	482.9	0.937
255.0	0.974	261.7	0.637	494.55	0.970	484.6	0.937
255.9	0.972	262.5	0.641	496.21	0.979	486.2	0.934
256.7	0.971	263.4	0.644	497.88	0.981	487.9	0.934
257.6	0.967	264.3	0.645	499.54	0.978	489.5	0.939
258.4	0.974	265.1	0.639	501.21	0.971	491.2	0.938
259.3	0.980	266.0	0.645	502.87	0.980	492.9	0.935
260.1	0.969	266.8	0.643	504.54	0.971	494.5	0.935
261.0	0.971	267.7	0.645	506.20	0.976	496.2	0.939
261.9	0.978	268.6	0.644	507.87	0.979	497.9	0.935
262.7	0.981	269.4	0.646	509.53	0.974	499.5	0.933
263.6	0.973	270.3	0.647	511.20	0.979	501.2	0.935
264.4	0.986	271.1	0.645	512.86	0.973	502.9	0.931
265.3	0.984	272.0	0.649	514.53	0.977	504.5	0.940
266.2	0.981	272.8	0.647	516.19	0.976	506.2	0.932
267.0	0.991	273.7	0.651	517.86	0.989	507.9	0.935
267.9	0.980	274.6	0.646	519.52	0.984	509.5	0.934
268.7	0.987	275.4	0.650	521.19	0.981	511.2	0.937
269.6	0.984	276.3	0.646	522.85	0.979	512.9	0.936
270.5	0.988	277.1	0.651	524.52	0.982	514.5	0.937
271.3	0.987	278.0	0.647	526.18	0.980	516.2	0.933
272.2	0.981	278.9	0.647	527.85	0.982	517.9	0.926
273.0	0.992	279.7	0.651	529.51	0.987	519.5	0.930
273.9	0.989	280.6	0.653	531.18	0.982	521.2	0.927
274.8	0.977	281.4	0.656	532.84	0.979	522.8	0.937
275.6	0.988	282.3	0.652	534.51	0.981	524.5	0.932
276.5	0.989	283.2	0.649	536.17	0.983	526.2	0.932
277.3	0.987	284.0	0.655	537.84	0.982	527.8	0.931
278.2	0.988	284.9	0.656	539.50	0.986	529.5	0.933
279.0	0.992	285.7	0.660	541.17	0.981	531.2	0.929
279.9	1.000	286.6	0.656	542.83	0.987	532.8	0.934
280.8	0.993	287.4	0.657	544.50	0.985	534.5	0.932
281.6	0.992	288.3	0.659	546.16	0.980	536.2	0.928
282.5	1.000	289.2	0.659	547.83	0.989	537.8	0.932
283.3	0.995	290.0	0.658	549.49	0.988	539.5	0.927
284.2	0.999	290.9	0.655	551.16	0.988	541.2	0.924
285.1	0.990	291.7	0.660	552.82	0.982	542.8	0.932
285.9	0.994	292.6	0.656	554.49	0.986	544.5	0.927
286.8	1.003	293.5	0.662	556.15	0.990	546.2	0.936
287.6	0.996	294.3	0.661	557.82	0.988	547.8	0.928

Table S5.6. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₂min][MeSO₄]-based SLM. *Part 6.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
288.5	0.991	295.2	0.662	559.48	0.982	549.5	0.928
289.4	0.995	296.0	0.661	561.15	0.988	551.2	0.924
290.2	0.994	296.9	0.660	562.81	0.987	552.8	0.925
291.1	0.994	297.8	0.670	564.48	0.986	554.5	0.930
291.9	0.998	298.6	0.666	566.14	0.992	556.1	0.931
292.8	0.996	299.5	0.662	567.81	0.987	557.8	0.924
293.6	0.998	300.3	0.660	569.47	0.981	559.5	0.924
294.5	0.994	301.2	0.662	571.14	0.986	561.1	0.928
295.4	0.993	302.1	0.670	572.80	0.985	562.8	0.927
296.2	1.011	302.9	0.664	574.47	0.983	564.5	0.926
297.1	1.003	303.8	0.663	576.13	0.991	566.1	0.927
297.9	0.996	304.6	0.662	577.80	0.992	567.8	0.926
298.8	1.002	305.5	0.663	579.46	0.989	569.5	0.925
299.7	1.003	306.3	0.665	581.13	0.991	571.1	0.925
300.5	0.999	307.2	0.668	582.79	0.989	572.8	0.923
301.4	1.009	308.1	0.665	584.46	0.991	574.5	0.924
302.2	1.012	308.9	0.668	586.12	0.985	576.1	0.923
303.1	1.005	309.8	0.669	587.79	0.990	577.8	0.920
304.0	0.995	310.6	0.672	589.45	0.989	579.5	0.922
304.8	1.001	311.5	0.671	591.12	0.993	581.1	0.923
305.7	1.007	312.4	0.673	592.78	0.991	582.8	0.930
306.5	1.005	313.2	0.670	594.45	0.986	584.5	0.917
307.4	1.007	314.1	0.671	596.11	0.985	586.1	0.924
308.3	1.009	314.9	0.671	597.78	0.991	587.8	0.925
309.1	1.004	315.8	0.672	599.44	0.997	589.4	0.925
310.0	1.000	316.7	0.670	601.11	0.988	591.1	0.917
310.8	1.003	317.5	0.669	602.77	0.992	592.8	0.917
311.7	1.010	318.4	0.672	604.44	0.988	594.4	0.923
312.5	1.003	319.2	0.673	606.10	0.985	596.1	0.916
313.4	1.009	320.1	0.674	607.77	0.994	597.8	0.917
314.3	1.007	320.9	0.672	609.43	0.987	599.4	0.920
315.1	1.006	321.8	0.676	611.10	0.990	601.1	0.920
316.0	1.007	322.7	0.672	612.76	0.995	602.8	0.920
316.8	1.008	323.5	0.673	614.43	0.989	604.4	0.916
317.7	1.005	324.4	0.677	616.09	0.989	606.1	0.913
318.6	1.009	325.2	0.677	617.76	0.993	607.8	0.917
319.4	1.004	326.1	0.677	619.42	0.987	609.4	0.916
320.3	1.010	327.0	0.682	621.09	0.990	611.1	0.911
321.1	1.009	327.8	0.677	622.75	0.985	612.8	0.919
322.0	1.009	328.7	0.676	624.42	0.994	614.4	0.918
322.9	1.010	329.5	0.678	626.08	0.990	616.1	0.921
323.7	1.010	330.4	0.680	627.75	0.989	617.8	0.916
324.6	1.009	331.3	0.681	629.41	0.992	619.4	0.913
325.4	1.009	332.1	0.683	631.08	0.996	621.1	0.915
326.3	1.013	333.0	0.683	632.74	0.996	622.7	0.919
327.2	1.007	333.8	0.677	634.41	0.992	624.4	0.920
328.0	1.010	334.7	0.686	636.07	0.990	626.1	0.916
328.9	1.016	335.6	0.682	637.74	0.994	627.7	0.913
329.7	1.007	336.4	0.684	639.40	0.995	629.4	0.917
330.6	1.006	337.3	0.686	641.07	1.000	631.1	0.913
331.4	1.012	338.1	0.684	642.73	0.991	632.7	0.911
332.3	1.010	339.0	0.683	644.40	0.992	634.4	0.916
333.2	1.011	339.8	0.690	646.06	0.997	636.1	0.915
334.0	1.011	340.7	0.684	647.73	0.998	637.7	0.917
334.9	1.012	341.6	0.687	649.39	0.993	639.4	0.916
335.7	1.020	342.4	0.685	651.06	0.994	641.1	0.911
336.6	1.009	343.3	0.688	652.72	0.992	642.7	0.916
337.5	1.018	344.1	0.686	654.39	0.999	644.4	0.917
338.3	1.014	345.0	0.680	656.05	0.992	646.1	0.916

Table S5.7. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₂min][MeSO₄]-based SLM. *Part 7.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
339.2	1.006	345.9	0.687	657.72	0.999	647.7	0.914
340.0	1.015	346.7	0.686	659.38	0.987	649.4	0.921
340.9	1.011	347.6	0.685	661.05	0.993	651.0	0.913
341.8	1.004	348.4	0.690	662.71	0.990	652.7	0.912
342.6	1.007	349.3	0.692	664.38	0.995	654.4	0.909
343.5	1.016	350.2	0.685	666.04	0.997	656.0	0.914
344.3	1.008	351.0	0.693	667.71	0.991	657.7	0.911
345.2	1.020	351.9	0.695	669.37	0.992	659.4	0.916
346.0	1.010	352.7	0.693	671.04	0.998	661.0	0.905
346.9	1.010	353.6	0.692	672.70	0.996	662.7	0.907
347.8	1.019	354.5	0.693	674.37	0.996	664.4	0.917
348.6	1.023	355.3	0.697	676.03	0.993	666.0	0.910
349.5	1.019	356.2	0.692	677.70	1.000	667.7	0.914
350.3	1.007	357.0	0.691	679.36	1.004	669.4	0.913
351.2	1.013	357.9	0.695	681.03	0.995	671.0	0.907
352.1	1.012	358.7	0.692	682.69	0.994	672.7	0.914
352.9	1.012	359.6	0.693	684.36	0.994	674.4	0.909
353.8	1.018	360.5	0.693	686.02	0.991	676.0	0.911
354.6	1.006	361.3	0.699	687.69	0.995	677.7	0.905
355.5	1.018	362.2	0.692	689.35	0.994	679.4	0.909
356.4	1.016	363.0	0.693	691.02	0.995	681.0	0.911
357.2	1.017	363.9	0.697	692.68	0.994	682.7	0.914
358.1	1.013	364.8	0.693	694.35	0.998	684.3	0.912
358.9	1.017	365.6	0.699	696.01	0.990	686.0	0.910
359.8	1.015	366.5	0.698	697.68	0.996	687.7	0.905
360.7	1.008	367.3	0.703	699.34	0.997	689.3	0.905
361.5	1.014	368.2	0.697	701.01	0.992	691.0	0.909
362.4	1.011	369.1	0.699	702.67	0.994	692.7	0.901
363.2	1.018	369.9	0.694	704.34	0.997	694.3	0.902
364.1	1.012	370.8	0.701	706.00	0.992	696.0	0.911
364.9	1.016	371.6	0.696	707.67	0.993	697.7	0.911
365.8	1.015	372.5	0.705	709.33	0.997	699.3	0.910
366.7	1.013	373.3	0.707	711.00	1.002	701.0	0.910
367.5	1.017	374.2	0.701	712.66	0.997	702.7	0.907
368.4	1.016	375.1	0.705	714.33	0.991	704.3	0.910
369.2	1.011	375.9	0.698	715.99	0.999	706.0	0.904
370.1	1.017	376.8	0.705	717.66	0.995	707.7	0.907
371.0	1.018	377.6	0.699	719.32	0.993	709.3	0.906
371.8	1.014	378.5	0.702	720.99	0.995	711.0	0.908
372.7	1.009	379.4	0.703	722.65	0.995	712.7	0.907
373.5	1.015	380.2	0.707	724.32	0.998	714.3	0.903
374.4	1.025	381.1	0.702	725.98	0.995	716.0	0.911
375.3	1.022	381.9	0.706	727.65	1.002	717.6	0.901
376.1	1.025	382.8	0.708	729.31	1.002	719.3	0.903
377.0	1.019	383.7	0.708	730.98	0.997	721.0	0.905
377.8	1.016	384.5	0.709	732.64	0.999	722.6	0.905
378.7	1.013	385.4	0.706	734.31	0.999	724.3	0.904
379.5	1.023	386.2	0.708	735.97	0.997	726.0	0.903
380.4	1.013	387.1	0.710	737.64	1.000	727.6	0.909
381.3	1.019	388.0	0.709	739.30	0.996	729.3	0.901
382.1	1.021	388.8	0.709	740.97	1.002	731.0	0.902
383.0	1.019	389.7	0.710	742.63	0.995	732.6	0.902
383.8	1.022	390.5	0.712	744.30	0.999	734.3	0.898
384.7	1.018	391.4	0.710	745.96	1.007	736.0	0.901
385.6	1.019	392.2	0.707	747.63	0.998	737.6	0.907
386.4	1.022	393.1	0.705	749.29	1.002	739.3	0.901
387.3	1.021	394.0	0.713	750.96	0.993	741.0	0.901
388.1	1.014	394.8	0.709	752.62	1.001	742.6	0.904
389.0	1.016	395.7	0.713	754.29	0.995	744.3	0.903

Table S5.8. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₂min][MeSO₄]-based SLM. *Part 8.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
389.9	1.015	396.5	0.709	755.95	0.995	746.0	0.904
390.7	1.012	397.4	0.708	757.62	1.003	747.6	0.904
391.6	1.015	398.3	0.712	759.28	1.001	749.3	0.900
392.4	1.021	399.1	0.712	760.95	0.999	750.9	0.902
393.3	1.024	400.0	0.716	762.61	0.996	752.6	0.906
394.2	1.021	400.8	0.715	764.28	0.997	754.3	0.900
395.0	1.022	401.7	0.717	765.94	0.998	755.9	0.901
395.9	1.018	402.6	0.713	767.61	1.005	757.6	0.904
396.7	1.023	403.4	0.717	769.27	0.998	759.3	0.895
409.6	1.027	404.3	0.714	770.94	1.002	760.9	0.902
422.5	1.028	405.1	0.715	772.60	1.005	762.6	0.903
435.3	1.025	406.0	0.719	774.27	0.995	764.3	0.905
448.2	1.019	406.8	0.712	775.93	0.996	765.9	0.904
461.1	1.021	419.7	0.724	777.60	1.000	767.6	0.895
474.0	1.025	432.6	0.723	779.26	1.001	769.3	0.898
486.8	1.020	445.5	0.729	780.93	1.003	770.9	0.898
499.7	1.022	458.3	0.738	782.59	0.994	772.6	0.898
512.6	1.025	471.2	0.744	784.26	1.002	774.3	0.898
525.4	1.022	484.1	0.749	785.92	1.003	775.9	0.902
538.3	1.025	497.0	0.748	787.59	1.003	777.6	0.901
551.2	1.027	509.8	0.755	789.25	0.998	779.3	0.901
564.1	1.020	522.7	0.759	790.92	0.998	780.9	0.907
576.9	1.018	535.6	0.765	792.58	1.006	782.6	0.898
589.8	1.030	548.4	0.766	794.25	1.005	797.6	0.902
602.7	1.025	561.3	0.770	795.91	1.003	812.6	0.898
615.6	1.023	574.2	0.775	797.58	0.998	827.6	0.899
628.4	1.032	587.1	0.781	799.24	1.001	842.5	0.899
641.3	1.014	599.9	0.783	800.91	0.997	857.5	0.899
654.2	1.024	612.8	0.786	802.57	0.996	872.5	0.894
667.0	1.029	625.7	0.798	817.56	1.001	887.5	0.898
679.9	1.022	638.5	0.795	832.55	1.000	902.5	0.892
692.8	1.015	651.4	0.805	847.54	1.002	917.5	0.889
705.7	1.025	664.3	0.804	862.53	1.002	932.5	0.895
718.5	1.030	677.2	0.814	877.52	1.002	947.5	0.887
731.4	1.015	690.0	0.813	892.50	1.001	962.5	0.887
744.3	1.023	702.9	0.813	907.49	1.006	977.4	0.892
757.1	1.029	715.8	0.825	922.48	1.005	992.4	0.895
770.0	1.025	728.6	0.822	937.47	1.002	1007.4	0.887
782.9	1.018	741.5	0.828	952.46	1.006	1022.4	0.889
795.8	1.022	754.4	0.834	967.45	1.007	1037.4	0.889
808.6	1.013	767.3	0.832	982.44	0.998	1052.4	0.888
821.5	1.018	780.1	0.843	997.43	1.002	1067.4	0.890
834.4	1.013	793.0	0.842	1012.42	1.001	1082.4	0.886
847.2	1.024	805.9	0.841	1027.41	1.001	1097.4	0.885
860.1	1.013	818.8	0.846	1042.40	1.001	1112.3	0.888
873.0	1.019	831.6	0.853	1057.38	0.996	1127.3	0.884
885.9	1.010	844.5	0.853	1072.37	0.999	1142.3	0.880
898.7	1.016	857.4	0.855	1087.36	1.006	1157.3	0.885
911.6	1.023	870.2	0.857	1102.35	1.001	1172.3	0.881
924.5	1.019	883.1	0.866	1117.34	0.999	1187.3	0.879
937.4	1.014	896.0	0.869	1132.33	1.004	1202.3	0.886
950.2	1.020	908.9	0.867	1147.32	0.998	1217.3	0.875
963.1	1.013	921.7	0.866	1162.31	1.008	1232.3	0.884
976.0	1.024	934.6	0.865	1177.30	1.004	1247.2	0.882
988.8	1.023	947.5	0.870	1192.29	1.005	1262.2	0.871
1001.7	1.010	960.3	0.877	1207.27	1.004	1277.2	0.877
1014.6	1.016	973.2	0.877	1222.26	1.006	1292.2	0.877
1027.5	1.012	986.1	0.879	1237.25	1.008	1307.2	0.877
1040.3	1.013	999.0	0.881	1252.24	1.003	1322.2	0.867

Table S5.9. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₂min][MeSO₄]-based SLM. *Part 9.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
1053.2	1.019	1011.8	0.890	1267.23	1.004	1337.2	0.877
1066.1	1.015	1024.7	0.890	1282.22	1.009	1352.2	0.881
1078.9	1.012	1037.6	0.898	1297.21	1.001	1367.2	0.874
1091.8	1.015	1050.5	0.894	1312.20	1.008	1382.1	0.879
1104.7	1.008	1063.3	0.908	1327.19	1.003	1397.1	0.873
1117.6	1.010	1076.2	0.905	1342.18	1.004	1412.1	0.870
1130.4	1.014	1089.1	0.906	1357.16	1.004	1427.1	0.875
1143.3	1.024	1101.9	0.904	1372.15	1.002	1442.1	0.880
1156.2	1.015	1114.8	0.901	1387.14	1.003	1457.1	0.870
1169.1	1.011	1127.7	0.914	1402.13	1.012	1472.1	0.874
1181.9	1.015	1140.6	0.925	1417.12	1.011	1487.1	0.872
1194.8	1.009	1153.4	0.913	1432.11	1.008	1502.1	0.870
1207.7	1.013	1166.3	0.927	1447.10	0.995	1517.0	0.870
1220.5	1.015	1179.2	0.916	1462.09	1.009	1532.0	0.873
1233.4	1.007	1192.0	0.920	1477.08	1.002	1547.0	0.866
1246.3	1.007	1204.9	0.923	1492.07	1.009	1562.0	0.871
1259.2	1.014	1217.8	0.927	1507.05	1.002	1577.0	0.867
1272.0	1.008	1230.7	0.925	1522.04	1.005	1592.0	0.861
1284.9	1.004	1243.5	0.929	1537.03	1.004	1607.0	0.867
1297.8	1.017	1256.4	0.925	1552.02	1.003	1622.0	0.861
1310.6	1.017	1269.3	0.930	1567.01	0.996	1637.0	0.867
1323.5	1.007	1282.1	0.941	1582.00	1.003	1651.9	0.866
1336.4	1.004	1295.0	0.935	1596.99	1.012	1666.9	0.865
1349.3	1.019	1307.9	0.935	1611.98	1.004	1681.9	0.871
1362.1	1.011	1320.8	0.952	1626.97	1.006	1696.9	0.867
1375.0	1.019	1333.6	0.951	1641.96	1.009	1711.9	0.871
1387.9	1.007	1346.5	0.947	1656.94	1.007	1726.9	0.862
1400.7	1.009	1359.4	0.952	1671.93	1.008	1741.9	0.866
1413.6	1.014	1372.3	0.954	1686.92	1.009	1756.9	0.862
1426.5	1.007	1385.1	0.952	1701.91	1.007	1771.9	0.857
1439.4	1.009	1398.0	0.959	1716.90	1.010	1786.8	0.864
1452.2	1.016	1410.9	0.955	1731.89	1.008	1801.8	0.865
1465.1	1.015	1423.7	0.955	1746.88	1.006	1816.8	0.861
1478.0	1.006	1436.6	0.950	1761.87	1.010	1831.8	0.866
1490.9	1.016	1449.5	0.961	1776.86	1.011	1846.8	0.863
1503.7	1.013	1462.4	0.954	1791.85	1.010	1861.8	0.866
1516.6	1.009	1475.2	0.959	1806.83	1.006	1876.8	0.862
1529.5	1.005	1488.1	0.960	1821.82	1.007	1891.8	0.862
1542.3	1.014	1501.0	0.964	1836.81	1.008	1906.8	0.868
1555.2	1.018	1513.8	0.961	1851.80	1.010	1921.7	0.861
1568.1	1.023	1526.7	0.965	1866.79	1.008	1936.7	0.859
1581.0	1.012	1539.6	0.965	1881.78	1.012	1951.7	0.855
1593.8	1.015	1552.5	0.964	1896.77	1.008	1966.7	0.865
1606.7	1.004	1565.3	0.967	1911.76	1.012	1981.7	0.858
1619.6	1.006	1578.2	0.962	1926.75	1.012	1996.7	0.864
1632.4	1.016	1591.1	0.964	1941.74	1.002	2011.7	0.859
1645.3	1.006	1603.9	0.976	1956.72	1.005	2026.7	0.864
1658.2	1.008	1616.8	0.971	1971.71	1.007	2041.7	0.861
1671.1	1.006	1629.7	0.977	1986.70	1.013	2056.7	0.856
1683.9	1.011	1642.6	0.979	2001.69	1.014	2071.6	0.859
1696.8	1.005	1655.4	0.972	2016.68	1.007	2086.6	0.859
1709.7	1.015	1668.3	0.984	2031.67	1.011	2101.6	0.857
1722.5	1.005	1681.2	0.985	2046.66	1.008	2116.6	0.860
1735.4	1.008	1694.1	0.982	2061.65	1.005	2131.6	0.859
1748.3	1.008	1706.9	0.977	2076.64	1.006	2146.6	0.851
1761.2	1.008	1719.8	0.981	2091.63	1.004	2161.6	0.850
1774.0	1.009	1732.7	0.989	2106.61	1.007	2176.6	0.859
1786.9	1.012	1745.5	0.980	2121.60	1.011	2191.6	0.858
1799.8	1.001	1758.4	0.982	2136.59	1.004	2206.5	0.852

Table S5.10. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₂min][MeSO₄]-based SLM. *Part 10.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
1812.7	1.009	1771.3	0.992	2151.58	1.010	2221.5	0.858
1825.5	1.000	1784.2	0.984	2166.57	1.007	2236.5	0.855
1838.4	1.010	1797.0	0.990	2181.56	1.004	2251.5	0.854
1851.3	1.007	1809.9	0.981	2196.55	1.006	2266.5	0.855
1864.1	1.013	1822.8	0.989	2211.54	1.002	2281.5	0.857
1877.0	1.007	1835.6	0.988	2226.53	1.009	2296.5	0.861
1889.9	1.016	1848.5	0.989	2241.52	1.005	2311.5	0.859
1902.8	1.006	1861.4	0.984	2256.50	1.005	2326.5	0.863
1915.6	1.013	1874.3	0.990	2271.49	1.006	2341.4	0.855
1928.5	1.007	1887.1	0.991	2286.48	1.008	2356.4	0.858
1941.4	1.002	1900.0	0.988	2301.47	1.009	2371.4	0.860
1954.2	1.004	1912.9	0.998	2316.46	1.007	2386.4	0.852
1967.1	1.009	1925.7	0.990	2331.45	1.014	2401.4	0.856
1980.0	1.009	1938.6	0.996	2346.44	1.006	2416.4	0.856
1992.9	1.007	1951.5	0.997	2361.43	1.016	2431.4	0.848
2005.7	0.999	1964.4	0.996	2376.42	1.005	2446.4	0.854
2018.6	1.007	1977.2	0.998	2391.41	1.008	2461.4	0.851
2031.5	0.998	1990.1	0.997	2406.39	0.999	2476.3	0.859
2044.3	1.008	2003.0	0.997	2421.38	1.004	2491.3	0.849
2057.2	1.003	2015.9	1.000	2436.37	1.006	2506.3	0.847
2070.1	1.005	2028.7	0.988	2451.36	1.006	2521.3	0.851
2083.0	1.011	2041.6	0.986	2466.35	1.003	2536.3	0.850
2095.8	1.002	2054.5	0.993	2481.34	1.004	2551.3	0.854
2108.7	1.004	2067.3	0.996	2496.33	0.999	2566.3	0.854
2121.6	1.009	2080.2	0.990	2511.32	1.002	2581.3	0.854
2134.5	1.016	2093.1	1.002	2526.31	1.007	2596.3	0.850
2147.3	1.006	2106.0	0.996	2541.30	1.007	2611.2	0.851
2160.2	1.007	2118.8	1.003	2556.28	1.009	2626.2	0.851
2173.1	1.009	-	-	2571.27	1.006	2641.2	0.850
2185.9	0.995	-	-	2586.26	1.011	2656.2	0.854
2198.8	0.998	-	-	2601.25	1.002	2671.2	0.854
2259.8	0.999	-	-	2616.24	1.004	2686.2	0.848
2320.7	1.006	-	-	2631.23	1.006	2701.2	0.849
2381.7	0.997	-	-	2646.22	1.009	2716.2	0.848
2442.7	1.001	-	-	2661.21	0.999	2731.2	0.854
2503.6	1.005	-	-	2676.20	1.004	2746.1	0.849
2564.6	0.999	-	-	2691.19	1.003	2761.1	0.850
2625.6	0.992	-	-	2706.17	1.006	2776.1	0.845
2686.5	0.995	-	-	2721.16	1.005	2791.1	0.848
2747.5	1.002	-	-	2736.15	1.003	2806.1	0.846
2808.5	1.002	-	-	2751.14	1.000	2821.1	0.850
2869.4	0.995	-	-	2766.13	1.004	2836.1	0.843
2930.4	0.990	-	-	2781.12	1.001	2851.1	0.848
2991.4	0.995	-	-	2796.11	1.005	2866.1	0.850
3052.3	0.988	-	-	2811.10	1.006	2881.0	0.851
3113.3	0.985	-	-	2826.09	1.001	2942.7	0.852
3174.3	0.992	-	-	2841.08	1.004	3004.3	0.851
3235.2	0.986	-	-	2856.06	1.002	3065.9	0.851
3296.2	0.992	-	-	2871.05	1.004	3127.5	0.849
3357.1	0.988	-	-	2886.04	1.007	3189.2	0.845
3418.1	0.998	-	-	2901.03	1.006	3250.8	0.844
3479.1	0.990	-	-	2962.65	1.007	3312.4	0.846
-	-	-	-	3024.27	0.999	3374.0	0.846
-	-	-	-	3085.89	1.010	3435.6	0.844
-	-	-	-	3147.52	1.008	3497.3	0.839
-	-	-	-	3209.14	1.005	3558.9	0.834
-	-	-	-	3270.76	1.006	3620.5	0.842
-	-	-	-	3332.38	0.998	3682.1	0.841
-	-	-	-	3394.00	0.998	3743.7	0.845

Table S5.11. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₂min][MeSO₄]-based SLM. *Part 11.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
-	-	-	-	3455.62	1.004	3805.4	0.842
-	-	-	-	3517.24	1.004	3867.0	0.835
-	-	-	-	3578.86	1.006	3928.6	0.840
-	-	-	-	3640.48	0.996	3990.2	0.843
-	-	-	-	3702.10	0.999	4051.8	0.844
-	-	-	-	3763.73	0.999	4113.5	0.845
-	-	-	-	3825.35	0.999	4175.1	0.848
-	-	-	-	3886.97	0.996	-	-
-	-	-	-	3948.59	1.000	-	-
-	-	-	-	4010.21	0.996	-	-
-	-	-	-	4071.83	1.004	-	-
-	-	-	-	4133.45	1.008	-	-
-	-	-	-	4195.07	0.998	-	-

Table S6.1. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₄min][BF₄]-based SLM. *Part 1.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
0.0	-0.006	0.0	-0.002	0.0	0.010	0.0	0.005
2.5	-0.007	2.5	0.000	2.5	0.005	2.5	0.008
5.1	0.003	5.1	-0.003	5.1	0.020	5.1	0.008
7.6	0.009	7.6	0.000	7.6	0.028	7.6	-0.006
10.1	0.018	10.1	0.000	10.1	0.045	10.1	0.008
12.7	0.028	12.7	0.004	12.7	0.067	12.7	-0.007
15.2	0.050	15.2	0.010	15.2	0.101	15.2	0.016
17.7	0.069	17.7	0.015	17.7	0.135	17.7	0.022
20.2	0.090	20.2	0.024	20.2	0.177	20.2	0.030
22.8	0.113	22.8	0.033	22.8	0.207	22.8	0.052
25.3	0.146	25.3	0.047	25.3	0.237	25.3	0.064
27.8	0.165	27.8	0.058	27.8	0.284	27.8	0.098
30.4	0.192	30.4	0.070	30.4	0.321	30.4	0.112
32.9	0.223	32.9	0.086	32.9	0.364	32.9	0.126
35.4	0.250	35.4	0.103	35.4	0.401	35.4	0.157
38.0	0.266	38.0	0.114	38.0	0.436	38.0	0.163
40.5	0.296	40.5	0.127	40.5	0.466	40.5	0.179
43.0	0.323	43.0	0.146	43.0	0.499	41.3	0.204
45.5	0.345	45.5	0.158	45.5	0.533	42.2	0.196
48.1	0.370	48.1	0.173	48.1	0.557	43.1	0.201
50.6	0.394	50.6	0.191	50.6	0.591	43.9	0.201
51.5	0.401	53.1	0.206	53.1	0.606	44.8	0.205
52.3	0.403	55.7	0.223	55.7	0.636	45.6	0.221
53.2	0.410	58.2	0.238	56.5	0.646	46.5	0.208
54.0	0.424	59.0	0.245	57.4	0.658	47.4	0.229
54.9	0.422	59.9	0.252	58.2	0.669	48.2	0.227
55.8	0.436	60.8	0.257	59.1	0.657	49.1	0.233
56.6	0.441	61.6	0.259	60.0	0.665	49.9	0.235
57.5	0.448	62.5	0.269	60.8	0.677	50.8	0.250
58.3	0.457	63.3	0.272	61.7	0.688	51.6	0.252
59.2	0.460	64.2	0.278	62.5	0.692	52.5	0.266
60.0	0.463	65.1	0.279	63.4	0.692	53.4	0.265
60.9	0.476	65.9	0.293	64.3	0.708	54.2	0.267
61.8	0.484	66.8	0.294	65.1	0.711	55.1	0.277
62.6	0.485	67.6	0.296	66.0	0.722	55.9	0.280
63.5	0.494	68.5	0.302	66.8	0.727	56.8	0.281
64.3	0.497	69.4	0.309	67.7	0.738	57.7	0.290

Table S6.2. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₄min][BF₄]-based SLM. *Part 2.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
65.2	0.513	70.2	0.313	68.5	0.733	58.5	0.298
66.1	0.510	71.1	0.318	69.4	0.730	59.4	0.313
66.9	0.519	71.9	0.325	70.3	0.748	60.2	0.308
67.8	0.526	72.8	0.327	71.1	0.754	61.1	0.309
68.6	0.528	73.7	0.333	72.0	0.766	62.0	0.313
69.5	0.535	74.5	0.334	72.8	0.765	62.8	0.318
70.4	0.542	75.4	0.338	73.7	0.765	63.7	0.319
71.2	0.550	76.2	0.341	74.6	0.773	64.5	0.331
72.1	0.551	77.1	0.349	75.4	0.771	65.4	0.326
72.9	0.556	77.9	0.351	76.3	0.777	66.3	0.343
73.8	0.554	78.8	0.355	77.1	0.793	67.1	0.347
74.7	0.569	79.7	0.359	78.0	0.782	68.0	0.350
75.5	0.569	80.5	0.361	78.9	0.791	68.8	0.357
76.4	0.581	81.4	0.367	79.7	0.798	69.7	0.353
77.2	0.586	82.2	0.370	80.6	0.801	70.5	0.368
78.1	0.590	83.1	0.372	81.4	0.799	71.4	0.364
78.9	0.594	84.0	0.379	82.3	0.815	72.3	0.378
79.8	0.599	84.8	0.381	83.1	0.816	73.1	0.385
80.7	0.601	85.7	0.387	84.0	0.818	74.0	0.393
81.5	0.609	86.5	0.390	84.9	0.808	74.8	0.385
82.4	0.614	87.4	0.394	85.7	0.821	75.7	0.408
83.2	0.619	88.3	0.395	86.6	0.833	76.6	0.393
84.1	0.619	89.1	0.399	87.4	0.830	77.4	0.399
85.0	0.631	90.0	0.404	88.3	0.838	78.3	0.408
85.8	0.630	90.8	0.410	89.2	0.833	79.1	0.412
86.7	0.633	91.7	0.413	90.0	0.839	80.0	0.427
87.5	0.646	92.6	0.413	90.9	0.838	80.9	0.433
88.4	0.646	93.4	0.418	91.7	0.845	81.7	0.433
89.3	0.646	94.3	0.425	92.6	0.848	82.6	0.437
90.1	0.648	95.1	0.425	93.5	0.844	83.4	0.440
91.0	0.659	96.0	0.429	94.3	0.857	84.3	0.455
91.8	0.661	96.8	0.436	95.2	0.846	85.1	0.457
92.7	0.668	97.7	0.440	96.0	0.860	86.0	0.457
93.6	0.670	98.6	0.443	96.9	0.864	86.9	0.445
94.4	0.669	99.4	0.451	97.8	0.867	87.7	0.458
95.3	0.678	100.3	0.454	98.6	0.871	88.6	0.467
96.1	0.684	101.1	0.459	99.5	0.870	89.4	0.462
97.0	0.689	102.0	0.463	100.3	0.872	90.3	0.479
97.8	0.696	102.9	0.470	101.2	0.870	91.2	0.484
98.7	0.695	103.7	0.473	102.0	0.873	92.0	0.492
99.6	0.697	104.6	0.482	102.9	0.881	92.9	0.495
100.4	0.705	105.4	0.482	103.8	0.879	93.7	0.489
101.3	0.709	106.3	0.484	104.6	0.884	94.6	0.500
102.1	0.706	107.2	0.489	105.5	0.884	95.5	0.505
103.0	0.715	108.0	0.494	106.3	0.886	96.3	0.517
103.9	0.715	108.9	0.499	107.2	0.895	97.2	0.514
104.7	0.722	109.7	0.507	108.1	0.904	98.0	0.498
105.6	0.723	110.6	0.511	108.9	0.895	98.9	0.528
106.4	0.720	111.4	0.515	109.8	0.894	99.8	0.524
107.3	0.725	112.3	0.521	110.6	0.903	100.6	0.526
108.2	0.734	113.2	0.523	111.5	0.898	101.5	0.537
109.0	0.737	114.0	0.528	112.4	0.902	102.3	0.545
109.9	0.742	114.9	0.534	113.2	0.909	103.2	0.540
110.7	0.744	115.7	0.532	114.1	0.915	104.0	0.553
111.6	0.745	116.6	0.540	114.9	0.903	104.9	0.550
112.4	0.745	117.5	0.543	115.8	0.910	105.8	0.554
113.3	0.747	118.3	0.548	116.6	0.914	106.6	0.554
114.2	0.755	119.2	0.550	117.5	0.908	107.5	0.579
115.0	0.759	120.0	0.556	118.4	0.912	108.3	0.569

Table S6.3. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₄min][BF₄]-based SLM. *Part 3.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
115.9	0.770	120.9	0.558	119.2	0.922	109.2	0.571
116.7	0.767	121.8	0.562	120.1	0.906	110.1	0.585
117.6	0.767	122.6	0.570	120.9	0.914	110.9	0.585
118.5	0.769	123.5	0.572	121.8	0.925	111.8	0.593
119.3	0.766	124.3	0.574	122.7	0.910	112.6	0.600
120.2	0.776	125.2	0.576	123.5	0.916	113.5	0.595
121.0	0.779	126.1	0.577	124.4	0.922	114.4	0.600
121.9	0.781	126.9	0.583	125.2	0.924	115.2	0.598
122.8	0.792	127.8	0.583	126.1	0.931	116.1	0.612
123.6	0.778	128.6	0.590	127.0	0.929	116.9	0.610
124.5	0.787	129.5	0.591	127.8	0.933	117.8	0.621
125.3	0.800	130.3	0.596	128.7	0.930	118.6	0.624
126.2	0.794	131.2	0.598	129.5	0.930	119.5	0.629
127.1	0.801	132.1	0.601	130.4	0.937	120.4	0.625
127.9	0.799	132.9	0.602	131.3	0.930	121.2	0.626
128.8	0.799	133.8	0.609	132.1	0.931	122.1	0.638
129.6	0.803	134.6	0.605	133.0	0.939	122.9	0.638
130.5	0.812	135.5	0.608	133.8	0.933	123.8	0.649
131.3	0.813	136.4	0.613	134.7	0.934	124.7	0.650
132.2	0.809	137.2	0.614	135.5	0.938	125.5	0.652
133.1	0.819	138.1	0.621	136.4	0.938	126.4	0.660
133.9	0.814	138.9	0.616	137.3	0.937	127.2	0.670
134.8	0.821	139.8	0.626	138.1	0.941	128.1	0.661
135.6	0.825	140.7	0.624	139.0	0.943	129.0	0.666
136.5	0.825	141.5	0.625	139.8	0.953	129.8	0.672
137.4	0.828	142.4	0.627	140.7	0.941	130.7	0.682
138.2	0.828	143.2	0.633	141.6	0.944	131.5	0.676
139.1	0.827	144.1	0.637	142.4	0.939	132.4	0.669
139.9	0.833	144.9	0.640	143.3	0.946	133.3	0.677
140.8	0.832	145.8	0.643	144.1	0.942	134.1	0.698
141.7	0.839	146.7	0.639	145.0	0.944	135.0	0.684
142.5	0.838	147.5	0.643	145.9	0.947	135.8	0.697
143.4	0.841	148.4	0.644	146.7	0.957	136.7	0.700
144.2	0.838	149.2	0.647	147.6	0.948	137.5	0.703
145.1	0.839	150.1	0.647	148.4	0.948	138.4	0.704
145.9	0.843	151.0	0.652	149.3	0.952	139.3	0.706
146.8	0.842	151.8	0.653	150.2	0.952	140.1	0.717
147.7	0.853	152.7	0.658	151.0	0.953	141.0	0.703
148.5	0.854	153.5	0.652	151.9	0.949	141.8	0.717
149.4	0.855	154.4	0.660	152.7	0.956	142.7	0.714
150.2	0.856	155.3	0.659	153.6	0.950	143.6	0.723
151.1	0.858	156.1	0.662	154.4	0.957	144.4	0.724
152.0	0.862	157.0	0.656	155.3	0.958	145.3	0.723
152.8	0.861	157.8	0.660	156.2	0.959	146.1	0.725
153.7	0.869	158.7	0.668	157.0	0.965	147.0	0.728
154.5	0.863	159.6	0.662	157.9	0.968	147.9	0.747
155.4	0.864	160.4	0.670	158.7	0.965	148.7	0.731
156.3	0.869	161.3	0.669	159.6	0.956	149.6	0.737
157.1	0.877	162.1	0.671	160.5	0.966	150.4	0.755
158.0	0.873	163.0	0.673	161.3	0.964	151.3	0.758
158.8	0.873	163.8	0.676	162.2	0.957	152.1	0.749
159.7	0.878	164.7	0.677	163.0	0.960	153.0	0.755
160.6	0.883	165.6	0.682	163.9	0.967	153.9	0.759
161.4	0.880	166.4	0.680	164.8	0.966	154.7	0.752
162.3	0.882	167.3	0.685	165.6	0.972	155.6	0.761
163.1	0.880	168.1	0.688	166.5	0.976	156.4	0.764
164.0	0.878	169.0	0.685	167.3	0.967	157.3	0.776
164.8	0.884	169.9	0.693	168.2	0.957	158.2	0.772
165.7	0.890	170.7	0.689	169.0	0.974	159.0	0.779

Table S6.4. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₄min][BF₄]-based SLM. *Part 4.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
166.6	0.883	171.6	0.694	169.9	0.967	159.9	0.779
167.4	0.885	172.4	0.701	170.8	0.969	160.7	0.775
168.3	0.892	173.3	0.701	171.6	0.968	161.6	0.777
169.1	0.886	174.2	0.706	172.5	0.971	162.5	0.782
170.0	0.896	175.0	0.706	173.3	0.964	163.3	0.792
170.9	0.888	175.9	0.706	174.2	0.964	164.2	0.794
171.7	0.892	176.7	0.701	175.1	0.973	165.0	0.780
172.6	0.898	177.6	0.712	175.9	0.967	165.9	0.784
173.4	0.902	178.5	0.712	176.8	0.973	166.8	0.788
174.3	0.898	179.3	0.710	177.6	0.974	167.6	0.794
175.2	0.899	180.2	0.715	178.5	0.967	168.5	0.798
176.0	0.900	181.0	0.714	179.4	0.975	169.3	0.805
176.9	0.908	181.9	0.715	180.2	0.966	170.2	0.805
177.7	0.910	182.7	0.716	181.1	0.968	171.0	0.805
178.6	0.901	183.6	0.723	181.9	0.971	171.9	0.816
179.5	0.905	184.5	0.733	182.8	0.978	172.8	0.814
180.3	0.915	185.3	0.728	183.7	0.970	173.6	0.809
181.2	0.910	186.2	0.730	184.5	0.983	174.5	0.816
182.0	0.916	187.0	0.732	185.4	0.970	175.3	0.825
182.9	0.911	187.9	0.732	186.2	0.979	176.2	0.826
183.7	0.915	188.8	0.734	187.1	0.976	177.1	0.818
184.6	0.922	189.6	0.738	187.9	0.975	177.9	0.828
185.5	0.919	190.5	0.739	188.8	0.977	178.8	0.831
186.3	0.911	191.3	0.741	189.7	0.978	179.6	0.826
187.2	0.919	192.2	0.744	190.5	0.970	180.5	0.833
188.0	0.916	193.1	0.741	191.4	0.975	181.4	0.852
188.9	0.922	193.9	0.742	192.2	0.975	182.2	0.850
189.8	0.917	194.8	0.741	193.1	0.987	183.1	0.836
190.6	0.924	195.6	0.744	194.0	0.967	183.9	0.848
191.5	0.918	196.5	0.752	194.8	0.966	184.8	0.851
192.3	0.919	197.3	0.754	195.7	0.989	185.7	0.840
193.2	0.921	198.2	0.754	196.5	0.984	186.5	0.854
194.1	0.925	199.1	0.753	197.4	0.981	187.4	0.856
194.9	0.928	199.9	0.763	198.3	0.984	188.2	0.854
195.8	0.926	200.8	0.765	199.1	0.977	189.1	0.858
196.6	0.933	201.6	0.765	200.0	0.981	189.9	0.879
197.5	0.926	202.5	0.764	200.8	0.984	190.8	0.869
198.3	0.935	203.4	0.768	201.7	0.979	191.7	0.866
199.2	0.937	204.2	0.769	202.5	0.989	192.5	0.871
200.1	0.930	205.1	0.767	203.4	0.988	193.4	0.867
200.9	0.935	205.9	0.770	204.3	0.985	194.2	0.868
201.8	0.934	206.8	0.777	205.1	0.982	195.1	0.876
202.6	0.944	207.7	0.774	206.0	0.994	196.0	0.872
203.5	0.940	208.5	0.780	206.8	0.986	196.8	0.891
204.4	0.934	209.4	0.777	207.7	0.991	197.7	0.883
205.2	0.944	210.2	0.780	208.6	0.995	198.5	0.891
206.1	0.941	211.1	0.779	209.4	0.987	199.4	0.884
206.9	0.938	212.0	0.787	210.3	0.981	200.3	0.883
207.8	0.933	212.8	0.791	211.1	0.977	201.1	0.897
208.7	0.937	213.7	0.794	212.0	0.996	202.0	0.895
209.5	0.936	214.5	0.787	212.9	0.986	202.8	0.896
210.4	0.940	215.4	0.796	213.7	0.972	203.7	0.882
211.2	0.944	216.2	0.793	214.6	0.994	204.5	0.895
212.1	0.947	217.1	0.804	215.4	0.982	205.4	0.895
213.0	0.940	218.0	0.798	216.3	0.984	206.3	0.899
213.8	0.947	218.8	0.794	217.2	0.993	207.1	0.900
214.7	0.942	219.7	0.808	218.0	0.989	208.0	0.916
215.5	0.949	220.5	0.805	218.9	0.990	208.8	0.906
216.4	0.952	221.4	0.808	219.7	0.981	209.7	0.911

Table S6.5. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₄min][BF₄]-based SLM. *Part 5.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
<i>s</i>	<i>a.u.</i>	<i>s</i>	<i>a.u.</i>	<i>s</i>	<i>a.u.</i>	<i>s</i>	<i>a.u.</i>
217.2	0.949	222.3	0.806	220.6	0.992	210.6	0.916
218.1	0.943	223.1	0.809	221.4	0.985	211.4	0.908
219.0	0.952	224.0	0.813	222.3	0.992	212.3	0.916
219.8	0.946	224.8	0.813	223.2	0.998	213.1	0.913
220.7	0.954	225.7	0.812	224.0	0.993	214.0	0.913
221.5	0.957	226.6	0.824	224.9	0.991	214.9	0.915
222.4	0.953	227.4	0.813	225.7	0.978	215.7	0.909
223.3	0.959	228.3	0.826	226.6	0.988	216.6	0.920
224.1	0.960	229.1	0.822	227.5	1.000	217.4	0.926
225.0	0.957	230.0	0.821	228.3	0.986	218.3	0.917
225.8	0.951	230.8	0.821	229.2	0.996	219.2	0.925
226.7	0.966	231.7	0.834	230.0	0.991	220.0	0.929
227.6	0.952	232.6	0.824	230.9	0.994	220.9	0.932
228.4	0.957	233.4	0.829	231.8	1.000	221.7	0.944
229.3	0.957	234.3	0.832	232.6	0.988	222.6	0.933
230.1	0.963	235.1	0.836	233.5	0.994	223.4	0.931
231.0	0.956	236.0	0.832	234.3	0.994	224.3	0.939
231.8	0.962	236.9	0.844	235.2	0.992	225.2	0.951
232.7	0.963	237.7	0.843	236.1	0.985	226.0	0.935
233.6	0.963	238.6	0.837	236.9	0.988	226.9	0.948
234.4	0.957	239.4	0.830	237.8	0.991	227.7	0.942
235.3	0.961	240.3	0.841	238.6	0.998	228.6	0.946
236.1	0.958	241.2	0.843	239.5	1.002	229.5	0.956
237.0	0.961	242.0	0.844	240.3	0.991	230.3	0.950
237.9	0.967	242.9	0.840	241.2	0.999	231.2	0.953
238.7	0.963	243.7	0.843	242.1	1.000	232.0	0.944
239.6	0.960	244.6	0.847	242.9	0.995	232.9	0.956
240.4	0.968	245.5	0.854	243.8	0.992	233.8	0.958
241.3	0.960	246.3	0.857	244.6	0.996	234.6	0.966
242.2	0.968	247.2	0.848	245.5	0.998	235.5	0.963
243.0	0.964	248.0	0.848	246.4	0.993	236.3	0.959
243.9	0.971	248.9	0.854	247.2	0.995	237.2	0.947
244.7	0.967	249.7	0.855	248.1	0.996	238.0	0.942
245.6	0.958	250.6	0.860	248.9	0.999	238.9	0.973
246.5	0.963	251.5	0.857	249.8	0.998	239.8	0.962
247.3	0.971	252.3	0.861	250.7	1.008	240.6	0.967
248.2	0.968	253.2	0.857	251.5	1.002	241.5	0.963
249.0	0.967	254.0	0.868	252.4	0.997	242.3	0.968
249.9	0.969	254.9	0.864	253.2	1.007	243.2	0.972
250.7	0.967	255.8	0.860	254.1	0.997	244.1	0.961
251.6	0.977	256.6	0.865	254.9	0.992	244.9	0.966
252.5	0.969	257.5	0.866	255.8	1.002	245.8	0.965
253.3	0.975	258.3	0.868	256.7	1.002	246.6	0.979
254.2	0.976	259.2	0.869	257.5	0.994	247.5	0.971
255.0	0.972	260.1	0.866	258.4	1.009	248.4	0.973
255.9	0.971	260.9	0.867	259.2	0.994	249.2	0.968
256.8	0.968	261.8	0.871	260.1	0.995	250.1	0.974
257.6	0.974	262.6	0.871	261.0	0.999	250.9	0.974
258.5	0.980	263.5	0.878	261.8	1.006	251.8	0.993
259.3	0.968	264.4	0.878	262.7	0.998	252.7	0.981
260.2	0.978	265.2	0.875	263.5	0.998	253.5	0.972
261.1	0.976	266.1	0.875	264.4	0.998	254.4	0.979
261.9	0.977	266.9	0.875	265.3	0.993	255.2	0.977
262.8	0.975	267.8	0.879	266.1	0.993	256.1	0.982
263.6	0.977	268.6	0.883	267.0	0.999	256.9	0.993
264.5	0.977	269.5	0.881	267.8	1.004	257.8	0.981
265.4	0.980	270.4	0.878	268.7	0.997	258.7	0.993
266.2	0.975	271.2	0.884	269.6	1.007	259.5	0.987
267.1	0.974	272.1	0.884	270.4	0.995	260.4	0.985

Table S6.6. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₄min][BF₄]-based SLM. *Part 6.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
267.9	0.983	272.9	0.884	271.3	0.993	261.2	0.982
268.8	0.975	273.8	0.882	272.1	1.000	262.1	0.988
269.6	0.972	274.7	0.886	273.0	0.998	263.0	0.980
270.5	0.970	275.5	0.891	273.8	1.007	263.8	0.999
271.4	0.975	276.4	0.891	274.7	1.003	264.7	0.983
272.2	0.982	277.2	0.889	275.6	1.003	265.5	0.999
273.1	0.982	278.1	0.896	276.4	0.993	266.4	0.986
273.9	0.987	279.0	0.892	277.3	0.999	267.3	0.982
274.8	0.982	279.8	0.890	278.1	1.004	268.1	0.995
275.7	0.977	280.7	0.895	279.0	1.003	269.0	0.994
276.5	0.979	281.5	0.891	279.9	1.000	269.8	0.987
277.4	0.986	282.4	0.896	280.7	0.998	270.7	1.008
278.2	0.984	283.2	0.892	281.6	0.993	271.6	0.983
279.1	0.977	284.1	0.895	282.4	0.995	272.4	0.992
280.0	0.984	285.0	0.896	283.3	1.003	273.3	0.996
280.8	0.970	285.8	0.904	284.2	0.994	274.1	1.013
281.7	0.987	286.7	0.895	285.0	0.992	275.0	0.989
282.5	0.977	287.5	0.898	285.9	0.994	275.8	0.999
283.4	0.979	288.4	0.901	286.7	0.998	276.7	0.986
284.2	0.990	289.3	0.897	287.6	0.993	277.6	0.998
285.1	0.979	290.1	0.902	288.4	0.993	278.4	0.995
286.0	0.991	291.0	0.906	289.3	0.992	279.3	0.991
286.8	0.987	291.8	0.903	290.2	0.997	280.1	0.996
287.7	0.982	292.7	0.907	291.0	1.001	281.0	1.002
288.5	0.982	293.6	0.901	291.9	1.002	281.9	0.997
289.4	0.989	294.4	0.904	292.7	1.001	282.7	1.003
290.3	0.991	295.3	0.908	293.6	0.993	283.6	0.999
291.1	0.981	296.1	0.919	294.5	0.988	284.4	1.005
292.0	0.992	297.0	0.915	295.3	1.002	297.3	1.000
292.8	0.986	297.9	0.919	296.2	1.003	310.2	0.999
293.7	0.994	298.7	0.914	297.0	0.996	323.1	1.004
294.6	0.989	299.6	0.909	297.9	1.000	335.9	0.998
295.4	0.991	300.4	0.918	298.8	1.012	348.8	1.008
296.3	0.993	301.3	0.921	299.6	0.993	361.7	1.012
297.1	0.982	302.1	0.911	300.5	1.000	374.5	1.012
298.0	0.990	303.0	0.912	301.3	0.992	387.4	1.005
298.9	0.998	303.9	0.919	302.2	0.998	400.3	1.003
299.7	0.986	304.7	0.917	303.1	1.007	413.2	1.012
300.6	0.991	305.6	0.917	303.9	0.996	426.0	0.998
301.4	0.990	306.4	0.924	304.8	1.000	438.9	1.015
302.3	0.996	307.3	0.925	305.6	0.994	451.8	1.006
303.1	0.991	308.2	0.922	306.5	1.009	464.6	1.015
304.0	0.990	309.0	0.922	307.3	1.006	477.5	1.014
304.9	0.989	309.9	0.925	308.2	1.003	490.4	1.019
305.7	0.998	310.7	0.924	309.1	1.003	503.3	1.002
306.6	0.989	311.6	0.932	309.9	0.991	-	-
307.4	0.992	312.5	0.929	310.8	0.994	-	-
308.3	0.995	313.3	0.928	311.6	0.994	-	-
309.2	0.992	314.2	0.929	312.5	0.995	-	-
310.0	0.991	315.0	0.932	313.4	1.000	-	-
310.9	0.999	315.9	0.931	314.2	0.994	-	-
311.7	0.985	316.7	0.927	315.1	0.999	-	-
312.6	0.991	317.6	0.925	315.9	1.008	-	-
313.5	0.994	318.5	0.925	316.8	0.995	-	-
314.3	0.994	319.3	0.931	317.7	1.000	-	-
315.2	0.988	320.2	0.929	318.5	1.007	-	-
316.0	0.988	321.0	0.935	319.4	0.998	-	-
316.9	0.985	321.9	0.935	320.2	0.998	-	-
317.7	0.995	322.8	0.937	321.1	1.007	-	-

Table S6.7. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₄min][BF₄]-based SLM. *Part 7.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
318.6	0.990	323.6	0.941	321.9	0.997	-	-
319.5	0.996	324.5	0.930	322.8	0.995	-	-
320.3	0.994	325.3	0.932	323.7	0.997	-	-
321.2	0.992	326.2	0.941	324.5	0.998	-	-
322.0	1.005	327.1	0.934	325.4	1.003	-	-
322.9	0.997	327.9	0.941	326.2	1.002	-	-
323.8	0.993	328.8	0.943	327.1	0.996	-	-
324.6	0.996	329.6	0.934	328.0	0.993	-	-
325.5	0.988	330.5	0.939	328.8	0.996	-	-
326.3	0.996	331.4	0.946	329.7	1.002	-	-
327.2	0.992	332.2	0.936	330.5	1.003	-	-
328.1	1.006	333.1	0.940	331.4	0.996	-	-
328.9	1.006	333.9	0.943	332.3	0.999	-	-
329.8	1.001	334.8	0.943	333.1	1.009	-	-
330.6	0.992	335.6	0.950	334.0	0.998	-	-
331.5	0.994	336.5	0.940	334.8	1.000	-	-
332.4	0.990	337.4	0.942	335.7	0.991	-	-
333.2	1.001	338.2	0.945	336.6	1.001	-	-
334.1	0.998	339.1	0.949	337.4	1.005	-	-
334.9	0.998	339.9	0.948	338.3	1.008	-	-
335.8	0.998	340.8	0.943	339.1	1.011	-	-
336.6	0.993	341.7	0.944	340.0	1.007	-	-
337.5	0.998	342.5	0.941	340.8	0.999	-	-
338.4	0.993	343.4	0.950	341.7	1.008	-	-
339.2	0.995	344.2	0.951	342.6	1.006	-	-
340.1	0.998	345.1	0.945	343.4	1.006	-	-
340.9	0.995	346.0	0.947	344.3	0.997	-	-
341.8	0.996	346.8	0.954	345.1	0.998	-	-
342.7	0.999	347.7	0.945	346.0	1.008	-	-
343.5	0.996	348.5	0.950	346.9	0.998	-	-
344.4	0.997	349.4	0.943	347.7	1.000	-	-
345.2	1.000	350.2	0.946	348.6	1.002	-	-
346.1	0.994	351.1	0.954	349.4	0.999	-	-
347.0	0.993	352.0	0.949	350.3	1.004	-	-
347.8	0.996	352.8	0.955	351.2	1.002	-	-
348.7	0.998	353.7	0.953	352.0	1.000	-	-
349.5	1.003	354.5	0.950	352.9	0.996	-	-
350.4	1.008	355.4	0.955	353.7	1.001	-	-
351.2	1.003	356.3	0.947	354.6	1.007	-	-
352.1	0.999	357.1	0.960	355.5	0.993	-	-
353.0	0.997	358.0	0.952	356.3	1.001	-	-
353.8	1.007	358.8	0.961	357.2	0.991	-	-
354.7	0.999	359.7	0.957	358.0	1.003	-	-
355.5	1.004	360.6	0.956	358.9	1.005	-	-
356.4	1.002	361.4	0.955	359.7	1.005	-	-
357.3	1.007	362.3	0.962	360.6	1.006	-	-
358.1	0.998	363.1	0.964	361.5	1.004	-	-
359.0	0.995	364.0	0.955	362.3	1.002	-	-
359.8	1.009	364.9	0.955	363.2	1.003	-	-
360.7	1.001	365.7	0.956	364.0	0.997	-	-
361.6	1.001	366.6	0.960	364.9	0.999	-	-
362.4	1.001	367.4	0.960	365.8	0.999	-	-
363.3	0.998	368.3	0.966	366.6	1.004	-	-
364.1	1.002	369.1	0.962	367.5	0.998	-	-
365.0	1.003	370.0	0.962	368.3	0.998	-	-
365.9	1.000	370.9	0.964	369.2	1.008	-	-
366.7	0.997	371.7	0.968	370.1	0.998	-	-
367.6	0.995	372.6	0.958	370.9	1.000	-	-
368.4	0.994	373.4	0.964	371.8	1.006	-	-

Table S6.8. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₄min][BF₄]-based SLM. *Part 8.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
<i>s</i>	<i>a.u.</i>	<i>s</i>	<i>a.u.</i>	<i>s</i>	<i>a.u.</i>	<i>s</i>	<i>a.u.</i>
369.3	0.999	374.3	0.965	372.6	0.998	-	-
370.1	1.004	375.2	0.968	373.5	1.006	-	-
371.0	1.001	376.0	0.962	374.3	0.999	-	-
371.9	1.005	376.9	0.967	375.2	0.988	-	-
372.7	1.001	377.7	0.965	376.1	1.001	-	-
373.6	1.001	378.6	0.974	376.9	0.995	-	-
374.4	0.995	379.5	0.972	377.8	1.002	-	-
375.3	1.002	380.3	0.971	378.6	0.994	-	-
376.2	1.002	381.2	0.968	379.5	0.999	-	-
377.0	1.009	382.0	0.971	380.4	1.002	-	-
377.9	1.001	382.9	0.965	381.2	1.012	-	-
378.7	0.998	383.8	0.965	382.1	1.004	-	-
379.6	1.000	384.6	0.973	382.9	0.998	-	-
380.5	1.003	385.5	0.972	383.8	1.006	-	-
381.3	1.007	386.3	0.975	384.7	1.000	-	-
382.2	1.004	387.2	0.967	385.5	1.006	-	-
383.0	1.007	388.0	0.965	386.4	0.996	-	-
383.9	1.001	388.9	0.970	387.2	1.015	-	-
384.8	1.004	389.8	0.973	388.1	0.990	-	-
385.6	1.002	390.6	0.973	389.0	1.005	-	-
386.5	0.997	391.5	0.970	389.8	0.997	-	-
387.3	1.005	392.3	0.973	390.7	0.988	-	-
388.2	1.009	393.2	0.968	391.5	1.001	-	-
389.0	1.005	394.1	0.976	392.4	0.995	-	-
389.9	0.999	394.9	0.974	393.2	0.999	-	-
390.8	1.012	395.8	0.977	394.1	0.993	-	-
391.6	1.009	396.6	0.968	395.0	1.007	-	-
392.5	1.003	397.5	0.976	395.8	1.002	-	-
393.3	1.002	398.4	0.977	396.7	1.006	-	-
394.2	0.998	399.2	0.974	397.5	0.994	-	-
407.1	1.002	400.1	0.983	398.4	0.991	-	-
419.9	1.016	400.9	0.974	399.3	1.001	-	-
432.8	1.003	401.8	0.978	412.1	0.992	-	-
445.7	1.000	414.7	0.979	425.0	0.997	-	-
458.6	1.002	427.5	0.989	437.9	0.995	-	-
471.4	1.002	440.4	0.991	450.7	1.002	-	-
484.3	1.001	453.3	1.002	463.6	0.995	-	-
497.2	0.992	466.1	1.000	476.5	0.995	-	-
510.0	0.986	479.0	1.002	489.4	0.994	-	-
522.9	0.991	491.9	1.008	502.2	0.997	-	-
535.8	0.982	504.8	1.002	515.1	0.992	-	-
-	-	517.6	1.001	528.0	0.985	-	-
-	-	530.5	0.999	540.9	0.988	-	-
-	-	543.4	0.994	-	-	-	-

Table S7.1. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₄min][PF₆]-based SLM. *Part 1.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
0.0	0.002	0.0	0.000	0.0	0.002	0.0	0.002
2.5	0.001	2.5	0.012	2.5	0.003	2.5	-0.001
5.1	0.013	5.1	0.008	5.1	0.001	5.1	-0.002
7.6	0.020	7.6	0.037	7.6	0.007	7.6	-0.001
10.1	0.033	10.1	0.045	10.1	0.023	10.1	-0.002
12.7	0.050	12.7	0.060	12.7	0.042	12.7	-0.001
15.2	0.072	15.2	0.100	15.2	0.068	15.2	0.002
17.7	0.098	17.7	0.121	17.7	0.098	17.7	0.003
20.2	0.127	20.2	0.157	20.2	0.135	20.2	0.010
22.8	0.151	22.8	0.200	22.8	0.170	22.8	0.021
25.3	0.178	25.3	0.237	25.3	0.204	25.3	0.030
27.8	0.209	27.8	0.268	27.8	0.251	27.8	0.041
30.4	0.239	30.4	0.305	30.4	0.288	30.4	0.054
32.9	0.268	32.9	0.351	32.9	0.325	32.9	0.065
35.4	0.290	35.4	0.378	35.4	0.359	35.4	0.076
38.0	0.325	38.0	0.402	38.0	0.394	38.0	0.094
40.5	0.344	40.5	0.446	40.5	0.426	38.8	0.093
43.0	0.372	43.0	0.463	43.0	0.459	39.7	0.096
45.5	0.398	45.5	0.503	45.5	0.484	40.5	0.106
46.4	0.414	48.1	0.523	48.1	0.519	41.4	0.106
47.3	0.417	50.6	0.544	50.6	0.543	42.2	0.110
48.1	0.427	53.1	0.575	53.1	0.565	43.1	0.114
49.0	0.438	55.7	0.596	55.7	0.589	44.0	0.119
49.8	0.454	58.2	0.615	56.5	0.597	44.8	0.126
50.7	0.450	60.7	0.639	57.4	0.604	45.7	0.125
51.6	0.458	63.3	0.662	58.2	0.609	46.5	0.128
52.4	0.467	64.1	0.667	59.1	0.619	47.4	0.134
53.3	0.475	65.0	0.687	60.0	0.626	48.3	0.133
54.1	0.479	65.8	0.671	60.8	0.633	49.1	0.140
55.0	0.485	66.7	0.688	61.7	0.638	50.0	0.142
55.8	0.501	67.5	0.693	62.5	0.648	50.8	0.148
56.7	0.498	68.4	0.697	63.4	0.651	51.7	0.149
57.6	0.514	69.3	0.701	64.3	0.654	52.6	0.155
58.4	0.524	70.1	0.721	65.1	0.668	53.4	0.155
59.3	0.526	71.0	0.712	66.0	0.672	54.3	0.157
60.1	0.533	71.8	0.716	66.8	0.674	55.1	0.162
61.0	0.541	72.7	0.732	67.7	0.679	56.0	0.165
61.9	0.541	73.6	0.737	68.5	0.690	56.8	0.169
62.7	0.557	74.4	0.741	69.4	0.697	59.4	0.176
63.6	0.561	75.3	0.745	70.3	0.697	60.3	0.183
64.4	0.566	76.1	0.747	71.1	0.701	61.1	0.182
65.3	0.572	77.0	0.756	72.0	0.710	62.0	0.189
66.2	0.584	77.9	0.767	72.8	0.719	62.9	0.196
67.0	0.587	78.7	0.760	73.7	0.723	63.7	0.198
67.9	0.591	79.6	0.770	74.6	0.725	64.6	0.204
68.7	0.601	80.4	0.774	75.4	0.734	65.4	0.205
69.6	0.594	81.3	0.778	76.3	0.738	66.3	0.207
70.5	0.610	82.1	0.791	77.1	0.743	67.2	0.212
71.3	0.615	83.0	0.791	78.0	0.746	68.0	0.216
72.2	0.620	83.9	0.796	78.9	0.748	68.9	0.222
73.0	0.629	84.7	0.796	79.7	0.757	69.7	0.226
73.9	0.624	85.6	0.805	80.6	0.759	70.6	0.230
74.7	0.649	86.4	0.815	81.4	0.767	71.5	0.238
75.6	0.647	87.3	0.820	82.3	0.767	72.3	0.245
76.5	0.653	88.2	0.810	83.1	0.771	73.2	0.251
77.3	0.660	89.0	0.832	84.0	0.778	74.0	0.249
78.2	0.667	89.9	0.829	84.9	0.785	74.9	0.253
79.0	0.668	90.7	0.844	85.7	0.785	75.7	0.263
79.9	0.671	91.6	0.830	86.6	0.785	76.6	0.264

Table S7.2. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₄min][PF₆]-based SLM. *Part 2.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
80.8	0.676	92.5	0.839	87.4	0.792	77.5	0.274
81.6	0.686	93.3	0.843	88.3	0.800	78.3	0.276
82.5	0.687	94.2	0.845	89.2	0.798	79.2	0.287
83.3	0.696	95.0	0.857	90.0	0.806	80.0	0.286
84.2	0.703	95.9	0.853	90.9	0.807	80.9	0.296
85.1	0.694	96.8	0.853	91.7	0.814	81.8	0.303
85.9	0.709	97.6	0.856	92.6	0.809	82.6	0.303
86.8	0.715	98.5	0.870	93.5	0.816	83.5	0.313
87.6	0.722	99.3	0.870	94.3	0.816	84.3	0.314
88.5	0.719	100.2	0.882	95.2	0.821	85.2	0.320
89.3	0.731	101.0	0.874	96.0	0.824	86.1	0.328
90.2	0.732	101.9	0.889	96.9	0.829	86.9	0.330
91.1	0.739	102.8	0.877	97.8	0.833	87.8	0.339
91.9	0.736	103.6	0.895	98.6	0.836	88.6	0.344
92.8	0.749	104.5	0.887	99.5	0.839	89.5	0.352
93.6	0.752	105.3	0.889	100.3	0.843	90.3	0.356
94.5	0.753	106.2	0.890	101.2	0.840	91.2	0.360
95.4	0.758	107.1	0.904	102.0	0.842	92.1	0.365
96.2	0.758	107.9	0.895	102.9	0.857	92.9	0.367
97.1	0.768	108.8	0.894	103.8	0.859	93.8	0.373
97.9	0.779	109.6	0.907	104.6	0.850	94.6	0.381
98.8	0.767	110.5	0.920	105.5	0.855	95.5	0.386
99.7	0.782	111.4	0.919	106.3	0.859	96.4	0.389
100.5	0.782	112.2	0.924	107.2	0.862	97.2	0.396
101.4	0.786	113.1	0.909	108.1	0.862	98.1	0.404
102.2	0.789	113.9	0.921	108.9	0.871	98.9	0.410
103.1	0.792	114.8	0.918	109.8	0.872	99.8	0.408
104.0	0.796	115.6	0.918	110.6	0.875	100.7	0.413
104.8	0.801	116.5	0.931	111.5	0.881	101.5	0.423
105.7	0.803	117.4	0.927	112.4	0.880	102.4	0.426
106.5	0.806	118.2	0.931	113.2	0.878	103.2	0.431
107.4	0.814	119.1	0.939	114.1	0.885	104.1	0.437
108.2	0.814	119.9	0.932	114.9	0.886	105.0	0.443
109.1	0.820	120.8	0.931	115.8	0.880	105.8	0.448
110.0	0.822	121.7	0.936	116.6	0.886	106.7	0.455
110.8	0.820	122.5	0.943	117.5	0.893	107.5	0.456
111.7	0.816	123.4	0.935	118.4	0.890	108.4	0.460
112.5	0.828	124.2	0.950	119.2	0.892	109.2	0.473
113.4	0.831	125.1	0.947	120.1	0.893	110.1	0.473
114.3	0.833	126.0	0.947	120.9	0.896	111.0	0.478
115.1	0.839	126.8	0.950	121.8	0.901	111.8	0.479
116.0	0.845	127.7	0.957	122.7	0.902	112.7	0.487
116.8	0.848	128.5	0.963	123.5	0.902	113.5	0.490
117.7	0.845	129.4	0.957	124.4	0.905	114.4	0.495
118.6	0.851	130.3	0.965	125.2	0.901	115.3	0.501
119.4	0.859	131.1	0.962	126.1	0.911	116.1	0.505
120.3	0.853	132.0	0.959	127.0	0.914	117.0	0.508
121.1	0.861	132.8	0.964	127.8	0.917	117.8	0.518
122.0	0.863	133.7	0.960	128.7	0.911	118.7	0.515
122.9	0.873	134.5	0.958	129.5	0.913	119.6	0.521
123.7	0.874	135.4	0.972	130.4	0.919	120.4	0.532
124.6	0.865	136.3	0.969	131.3	0.915	121.3	0.532
125.4	0.875	137.1	0.968	132.1	0.918	122.1	0.535
126.3	0.870	138.0	0.973	133.0	0.914	123.0	0.542
127.1	0.875	138.8	0.957	133.8	0.922	123.9	0.543
128.0	0.874	139.7	0.982	134.7	0.917	124.7	0.549
128.9	0.882	140.6	0.978	135.5	0.922	125.6	0.550
129.7	0.887	141.4	0.981	136.4	0.924	126.4	0.559
130.6	0.894	142.3	0.988	137.3	0.925	127.3	0.560

Table S7.3. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₄min][PF₆]-based SLM. *Part 3.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
131.4	0.886	143.1	0.980	138.1	0.931	128.1	0.566
132.3	0.901	144.0	0.979	139.0	0.934	129.0	0.568
133.2	0.904	144.9	0.965	139.8	0.933	129.9	0.576
134.0	0.901	145.7	0.973	140.7	0.926	130.7	0.575
134.9	0.898	146.6	0.974	141.6	0.934	131.6	0.589
135.7	0.909	147.4	0.967	142.4	0.938	132.4	0.587
136.6	0.909	148.3	0.976	143.3	0.941	133.3	0.592
137.5	0.914	149.2	0.983	144.1	0.930	134.2	0.594
138.3	0.911	150.0	0.975	145.0	0.941	135.0	0.599
139.2	0.914	150.9	0.976	145.9	0.942	135.9	0.601
140.0	0.916	151.7	0.986	146.7	0.941	136.7	0.608
140.9	0.922	152.6	0.981	147.6	0.935	137.6	0.605
141.7	0.927	153.4	0.980	148.4	0.939	138.5	0.613
142.6	0.917	154.3	0.995	149.3	0.943	139.3	0.612
143.5	0.921	155.2	0.988	150.2	0.947	140.2	0.618
144.3	0.929	156.0	0.982	151.0	0.944	141.0	0.624
145.2	0.927	156.9	0.987	151.9	0.950	141.9	0.622
146.0	0.923	157.7	0.977	152.7	0.954	142.7	0.634
146.9	0.932	158.6	0.981	153.6	0.946	143.6	0.632
147.8	0.936	159.5	0.996	154.4	0.941	144.5	0.638
148.6	0.933	160.3	0.988	155.3	0.954	145.3	0.639
149.5	0.943	161.2	0.983	156.2	0.946	146.2	0.641
150.3	0.940	162.0	0.988	157.0	0.944	147.0	0.651
151.2	0.936	162.9	1.001	157.9	0.946	147.9	0.648
152.1	0.956	163.8	0.994	158.7	0.944	148.8	0.651
152.9	0.943	164.6	1.004	159.6	0.946	149.6	0.654
153.8	0.948	165.5	0.994	160.5	0.943	150.5	0.657
154.6	0.950	166.3	0.997	161.3	0.957	151.3	0.663
155.5	0.951	167.2	0.995	162.2	0.956	152.2	0.662
156.4	0.955	168.0	0.996	163.0	0.958	153.1	0.672
157.2	0.959	168.9	1.006	163.9	0.959	153.9	0.675
158.1	0.943	169.8	1.002	164.8	0.954	154.8	0.673
158.9	0.950	170.6	0.993	165.6	0.958	155.6	0.677
159.8	0.958	171.5	1.007	166.5	0.953	156.5	0.685
160.6	0.950	172.3	0.994	167.3	0.968	157.4	0.680
161.5	0.959	173.2	1.004	168.2	0.959	158.2	0.687
162.4	0.963	174.1	1.000	169.0	0.954	159.1	0.691
163.2	0.962	174.9	0.993	169.9	0.959	159.9	0.691
164.1	0.961	175.8	0.995	170.8	0.961	160.8	0.693
164.9	0.964	176.6	1.005	171.6	0.969	161.6	0.697
165.8	0.977	177.5	1.003	172.5	0.958	162.5	0.697
166.7	0.978	178.4	1.002	173.3	0.962	163.4	0.706
167.5	0.967	179.2	1.016	174.2	0.965	164.2	0.705
168.4	0.970	180.1	0.994	175.1	0.960	165.1	0.705
169.2	0.969	180.9	1.000	175.9	0.970	165.9	0.708
170.1	0.979	181.8	1.006	176.8	0.964	166.8	0.713
171.0	0.980	182.7	0.998	177.6	0.971	167.7	0.714
171.8	0.970	183.5	1.007	178.5	0.967	168.5	0.718
172.7	0.978	184.4	1.009	179.4	0.967	169.4	0.719
173.5	0.966	185.2	1.005	180.2	0.966	170.2	0.724
174.4	0.980	186.1	0.998	181.1	0.971	171.1	0.720
175.2	0.979	186.9	0.996	181.9	0.974	172.0	0.719
176.1	0.983	187.8	1.003	182.8	0.972	172.8	0.728
177.0	0.980	188.7	0.995	183.7	0.971	173.7	0.730
177.8	0.982	189.5	0.993	184.5	0.971	174.5	0.726
178.7	0.967	190.4	1.006	185.4	0.967	175.4	0.730
179.5	0.981	191.2	1.019	186.2	0.965	176.2	0.731
180.4	0.989	192.1	1.001	187.1	0.968	177.1	0.742
181.3	0.979	193.0	0.994	187.9	0.979	178.0	0.746

Table S7.4. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₄min][PF₆]-based SLM. *Part 4.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
182.1	0.987	193.8	1.003	188.8	0.971	178.8	0.744
183.0	0.994	194.7	0.997	189.7	0.977	179.7	0.743
183.8	0.988	195.5	1.003	190.5	0.969	180.5	0.746
184.7	0.983	196.4	1.004	191.4	0.974	181.4	0.750
185.6	0.996	197.3	1.001	192.2	0.974	182.3	0.749
186.4	0.989	198.1	0.997	193.1	0.977	183.1	0.748
187.3	0.986	199.0	1.010	194.0	0.972	184.0	0.750
188.1	0.991	199.8	1.015	194.8	0.978	184.8	0.757
189.0	0.996	200.7	1.003	195.7	0.970	185.7	0.754
189.9	0.981	201.5	1.006	196.5	0.968	186.6	0.755
190.7	0.983	202.4	1.005	197.4	0.976	187.4	0.765
191.6	1.000	203.3	1.006	198.3	0.975	188.3	0.766
192.4	0.986	204.1	1.008	199.1	0.968	189.1	0.763
193.3	0.998	205.0	1.002	200.0	0.975	190.0	0.771
194.1	0.996	205.8	1.008	200.8	0.975	190.9	0.766
195.0	0.996	206.7	1.006	201.7	0.974	191.7	0.769
195.9	0.989	207.6	1.003	202.5	0.978	192.6	0.774
196.7	0.995	208.4	0.997	203.4	0.982	193.4	0.774
197.6	1.001	209.3	0.998	204.3	0.975	194.3	0.778
198.4	0.998	210.1	1.002	205.1	0.976	195.1	0.773
199.3	0.996	211.0	1.006	206.0	0.981	196.0	0.775
200.2	1.003	211.9	0.991	206.8	0.977	196.9	0.778
201.0	1.002	212.7	1.003	207.7	0.979	197.7	0.779
201.9	0.990	213.6	1.001	208.6	0.974	198.6	0.783
202.7	1.001	-	-	209.4	0.980	199.4	0.784
203.6	1.001	-	-	210.3	0.976	200.3	0.788
204.5	0.998	-	-	211.1	0.982	201.2	0.789
205.3	0.997	-	-	212.0	0.980	202.0	0.791
206.2	1.004	-	-	212.9	0.980	202.9	0.789
207.0	1.000	-	-	213.7	0.980	203.7	0.790
207.9	0.995	-	-	214.6	0.981	204.6	0.797
208.8	1.001	-	-	215.4	0.984	205.5	0.791
209.6	1.000	-	-	216.3	0.980	206.3	0.798
210.5	0.998	-	-	217.2	0.986	207.2	0.786
211.3	0.990	-	-	218.0	0.978	208.0	0.803
212.2	0.995	-	-	218.9	0.972	208.9	0.802
213.0	1.001	-	-	219.7	0.982	209.7	0.804
213.9	1.005	-	-	220.6	0.979	210.6	0.811
214.8	1.006	-	-	221.4	0.981	211.5	0.809
215.6	1.012	-	-	222.3	0.979	212.3	0.811
216.5	1.006	-	-	223.2	0.984	213.2	0.808
217.3	1.002	-	-	224.0	0.985	214.0	0.811
218.2	1.010	-	-	224.9	0.981	214.9	0.818
219.1	1.010	-	-	225.7	0.988	215.8	0.815
219.9	1.009	-	-	226.6	0.981	216.6	0.815
220.8	1.009	-	-	227.5	0.983	217.5	0.821
221.6	1.007	-	-	228.3	0.987	218.3	0.817
222.5	1.003	-	-	229.2	0.984	219.2	0.821
223.4	1.007	-	-	230.0	0.990	220.1	0.829
224.2	1.008	-	-	230.9	0.984	220.9	0.830
225.1	1.002	-	-	231.8	0.984	221.8	0.829
225.9	0.998	-	-	232.6	0.989	222.6	0.835
226.8	1.015	-	-	233.5	0.977	223.5	0.828
227.6	1.002	-	-	234.3	0.984	224.4	0.825
228.5	1.011	-	-	235.2	0.981	225.2	0.834
229.4	1.007	-	-	236.1	0.985	226.1	0.829
230.2	1.012	-	-	236.9	0.984	226.9	0.836
231.1	1.009	-	-	237.8	0.985	227.8	0.832
231.9	0.998	-	-	238.6	0.992	228.6	0.839

Table S7.5. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₄min][PF₆]-based SLM. *Part 5.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
232.8	0.999	-	-	239.5	0.987	229.5	0.835
233.7	1.012	-	-	240.3	0.987	230.4	0.841
234.5	1.012	-	-	241.2	0.977	231.2	0.841
235.4	1.004	-	-	242.1	0.980	232.1	0.842
236.2	1.008	-	-	242.9	0.988	232.9	0.843
237.1	1.011	-	-	243.8	0.978	233.8	0.842
238.0	1.014	-	-	244.6	0.984	234.7	0.844
238.8	1.008	-	-	245.5	0.985	235.5	0.848
239.7	0.998	-	-	246.4	0.992	236.4	0.852
240.5	1.013	-	-	247.2	0.988	237.2	0.851
241.4	1.007	-	-	248.1	0.992	238.1	0.850
242.3	1.013	-	-	248.9	0.982	239.0	0.856
243.1	0.998	-	-	249.8	0.988	239.8	0.861
244.0	1.017	-	-	250.7	0.980	240.7	0.859
244.8	1.002	-	-	251.5	0.994	241.5	0.859
245.7	1.009	-	-	252.4	0.983	242.4	0.857
246.5	1.003	-	-	253.2	0.986	243.3	0.861
247.4	1.005	-	-	254.1	0.988	244.1	0.858
248.3	1.007	-	-	254.9	0.987	245.0	0.863
249.1	1.006	-	-	255.8	0.986	245.8	0.864
250.0	1.010	-	-	256.7	0.982	246.7	0.870
250.8	1.004	-	-	257.5	0.990	247.5	0.864
251.7	1.002	-	-	258.4	0.985	248.4	0.861
252.6	1.004	-	-	259.2	0.989	249.3	0.871
253.4	0.997	-	-	260.1	0.997	250.1	0.864
254.3	1.003	-	-	261.0	0.997	251.0	0.874
255.1	1.000	-	-	261.8	0.982	251.8	0.874
256.0	1.005	-	-	262.7	0.990	252.7	0.874
256.9	1.004	-	-	263.5	0.988	253.6	0.879
257.7	1.012	-	-	264.4	0.988	254.4	0.873
258.6	1.006	-	-	265.3	0.991	255.3	0.877
259.4	1.015	-	-	266.1	0.992	256.1	0.873
260.3	1.008	-	-	267.0	0.985	257.0	0.877
261.1	1.019	-	-	267.8	0.990	257.9	0.880
262.0	0.995	-	-	268.7	0.985	258.7	0.884
262.9	1.005	-	-	269.6	0.990	259.6	0.887
263.7	0.996	-	-	270.4	0.994	260.4	0.887
264.6	0.999	-	-	271.3	0.994	261.3	0.879
265.4	1.008	-	-	272.1	0.986	262.1	0.885
266.3	1.005	-	-	273.0	0.998	263.0	0.879
267.2	1.005	-	-	273.8	0.983	263.9	0.885
268.0	1.011	-	-	274.7	0.994	264.7	0.887
268.9	1.018	-	-	275.6	0.994	265.6	0.894
269.7	1.006	-	-	276.4	0.989	266.4	0.895
270.6	1.018	-	-	277.3	0.988	267.3	0.892
271.5	1.010	-	-	278.1	0.986	268.2	0.897
272.3	1.007	-	-	279.0	0.986	269.0	0.898
273.2	1.012	-	-	279.9	0.991	269.9	0.897
274.0	1.007	-	-	280.7	0.991	270.7	0.898
274.9	0.997	-	-	281.6	0.990	271.6	0.899
275.8	1.015	-	-	282.4	0.991	272.5	0.896
276.6	0.997	-	-	283.3	0.991	273.3	0.897
277.5	1.005	-	-	284.2	0.986	274.2	0.895
278.3	0.992	-	-	285.0	0.991	275.0	0.907
279.2	1.003	-	-	285.9	0.990	275.9	0.902
280.0	1.008	-	-	286.7	0.994	276.8	0.903
280.9	1.006	-	-	287.6	0.985	277.6	0.905
281.8	1.005	-	-	288.4	0.991	278.5	0.902

Table S7.6. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₄min][PF₆]-based SLM. *Part 6.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
282.6	1.007	-	-	289.3	0.992	279.3	0.901
283.5	1.011	-	-	290.2	0.992	280.2	0.906
284.3	1.002	-	-	291.0	0.990	281.0	0.902
285.2	0.997	-	-	291.9	0.993	281.9	0.908
286.1	1.005	-	-	292.7	0.994	282.8	0.912
286.9	0.999	-	-	293.6	0.986	283.6	0.914
287.8	1.002	-	-	294.5	0.994	284.5	0.910
288.6	1.011	-	-	295.3	0.991	285.3	0.917
289.5	1.007	-	-	296.2	0.991	286.2	0.909
290.4	1.012	-	-	297.0	0.992	287.1	0.912
291.2	1.001	-	-	297.9	0.997	287.9	0.914
292.1	0.996	-	-	298.8	0.987	300.8	0.925
292.9	1.000	-	-	299.6	0.993	313.7	0.934
293.8	0.999	-	-	300.5	0.994	326.5	0.939
294.6	0.987	-	-	301.3	0.992	339.4	0.949
295.5	1.002	-	-	302.2	0.984	352.3	0.949
296.4	1.001	-	-	303.1	0.991	365.2	0.963
297.2	1.006	-	-	303.9	0.992	378.0	0.965
298.1	0.995	-	-	304.8	0.995	390.9	0.969
298.9	0.992	-	-	305.6	0.993	403.8	0.955
299.8	1.008	-	-	306.5	0.986	416.6	0.965
300.7	0.992	-	-	307.3	0.989	429.5	0.972
301.5	1.002	-	-	308.2	0.996	442.4	0.978
-	-	-	-	309.1	0.996	455.3	0.971
-	-	-	-	309.9	0.990	468.1	0.977
-	-	-	-	310.8	0.990	481.0	0.981
-	-	-	-	311.6	0.993	493.9	0.972
-	-	-	-	312.5	0.996	506.7	0.979
-	-	-	-	313.4	0.995	519.6	0.977
-	-	-	-	314.2	0.991	532.5	0.973
-	-	-	-	315.1	0.987	545.4	0.980
-	-	-	-	315.9	0.992	558.2	0.972
-	-	-	-	316.8	0.996	571.1	0.977
-	-	-	-	317.7	0.997	584.0	0.984
-	-	-	-	318.5	0.992	596.8	0.982
-	-	-	-	319.4	0.985	609.7	0.976
-	-	-	-	320.2	0.994	622.6	0.974
-	-	-	-	321.1	0.985	635.5	0.986
-	-	-	-	321.9	0.995	648.3	0.980
-	-	-	-	322.8	0.990	661.2	0.984
-	-	-	-	323.7	0.991	674.1	0.975
-	-	-	-	324.5	0.998	687.0	0.985
-	-	-	-	325.4	0.998	699.8	0.991
-	-	-	-	326.2	0.996	712.7	0.981
-	-	-	-	327.1	0.981	725.6	0.978
-	-	-	-	328.0	0.988	738.4	0.982
-	-	-	-	328.8	0.988	751.3	0.981
-	-	-	-	329.7	0.995	764.2	0.981
-	-	-	-	330.5	0.988	777.1	0.978
-	-	-	-	331.4	0.992	789.9	0.979
-	-	-	-	332.3	0.998	802.8	0.983
-	-	-	-	333.1	0.995	815.7	0.982
-	-	-	-	334.0	0.991	828.5	0.975
-	-	-	-	334.8	0.996	841.4	0.981
-	-	-	-	335.7	0.989	854.3	0.983
-	-	-	-	336.6	0.993	867.2	0.985
-	-	-	-	337.4	0.991	880.0	0.984
-	-	-	-	338.3	0.996	892.9	0.975
-	-	-	-	339.1	0.991	905.8	0.984

Table S7.7. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₄min][PF₆]-based SLM. *Part 7.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
-	-	-	-	340.0	0.987	918.6	0.980
-	-	-	-	340.8	0.988	931.5	0.983
-	-	-	-	341.7	0.993	944.4	0.984
-	-	-	-	342.6	0.992	957.3	0.981
-	-	-	-	343.4	0.989	970.1	0.975
-	-	-	-	344.3	0.995	983.0	0.982
-	-	-	-	345.1	0.989	995.9	0.989
-	-	-	-	346.0	0.995	1008.8	0.981
-	-	-	-	346.9	0.993	1021.6	0.979
-	-	-	-	347.7	0.989	1034.5	0.988
-	-	-	-	348.6	0.992	1047.4	0.992
-	-	-	-	349.4	0.992	1060.2	0.979
-	-	-	-	350.3	0.987	1073.1	0.985
-	-	-	-	351.2	0.987	1086.0	0.982
-	-	-	-	352.0	0.985	1098.9	0.985
-	-	-	-	352.9	0.995	1111.7	0.990
-	-	-	-	353.7	0.989	1124.6	0.990
-	-	-	-	354.6	0.993	1137.5	0.979
-	-	-	-	355.5	0.998	1150.3	0.983
-	-	-	-	356.3	0.992	1163.2	0.986
-	-	-	-	357.2	0.997	1176.1	0.982
-	-	-	-	358.0	0.988	1189.0	0.984
-	-	-	-	358.9	0.989	1201.8	0.983
-	-	-	-	359.7	0.990	1214.7	0.990
-	-	-	-	360.6	0.989	1227.6	0.986
-	-	-	-	361.5	0.990	1240.4	0.987
-	-	-	-	362.3	0.983	1253.3	0.981
-	-	-	-	363.2	0.979	1266.2	0.992
-	-	-	-	364.0	0.993	1279.1	0.996
-	-	-	-	364.9	0.994	1291.9	0.985
-	-	-	-	365.8	0.997	1304.8	0.989
-	-	-	-	366.6	0.993	1317.7	0.989
-	-	-	-	367.5	0.995	1330.6	0.983
-	-	-	-	368.3	0.985	1343.4	0.985
-	-	-	-	369.2	0.989	1356.3	0.986
-	-	-	-	370.1	0.996	1369.2	0.990
-	-	-	-	370.9	0.991	1382.0	0.985
-	-	-	-	371.8	0.991	1394.9	0.985
-	-	-	-	372.6	0.992	1407.8	0.991
-	-	-	-	373.5	0.997	1420.7	0.986
-	-	-	-	374.3	0.992	1433.5	0.992
-	-	-	-	375.2	0.991	1446.4	0.988
-	-	-	-	376.1	0.994	1459.3	0.988
-	-	-	-	376.9	0.991	1472.1	0.991
-	-	-	-	377.8	0.994	1485.0	0.988
-	-	-	-	378.6	0.985	1497.9	0.991
-	-	-	-	379.5	0.995	1510.8	0.996
-	-	-	-	380.4	0.997	1523.6	0.991
-	-	-	-	381.2	0.993	1536.5	0.991
-	-	-	-	382.1	0.990	1549.4	0.991
-	-	-	-	382.9	0.989	1562.2	0.990
-	-	-	-	383.8	0.991	1575.1	0.994
-	-	-	-	384.7	0.987	1588.0	0.989
-	-	-	-	385.5	0.992	1600.9	0.994
-	-	-	-	386.4	0.992	1613.7	0.991
-	-	-	-	387.2	0.992	1626.6	0.993
-	-	-	-	388.1	1.001	1639.5	0.993
-	-	-	-	389.0	0.989	1652.4	0.986
-	-	-	-	389.8	0.986	1665.2	0.991

Table S7.8. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₄min][PF₆]-based SLM. *Part 8.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
-	-	-	-	390.7	0.986	1678.1	0.991
-	-	-	-	391.5	0.985	1691.0	0.989
-	-	-	-	392.4	0.989	1703.8	0.990
-	-	-	-	393.2	0.989	1716.7	0.999
-	-	-	-	394.1	0.992	1729.6	0.990
-	-	-	-	395.0	0.994	1742.5	0.995
-	-	-	-	395.8	0.986	1755.3	0.992
-	-	-	-	396.7	0.989	1768.2	0.988
-	-	-	-	397.5	0.991	1781.1	0.998
-	-	-	-	398.4	0.986	1793.9	0.997
-	-	-	-	399.3	0.991	1806.8	0.988
-	-	-	-	412.1	0.991	1819.7	0.994
-	-	-	-	425.0	0.990	1832.6	0.997
-	-	-	-	437.9	0.987	1845.4	0.995
-	-	-	-	450.7	0.991	1858.3	0.993
-	-	-	-	463.6	0.994	1871.2	0.995
-	-	-	-	476.5	0.992	1884.0	0.997
-	-	-	-	489.4	0.993	1896.9	0.995
-	-	-	-	502.2	0.990	1909.8	0.996
-	-	-	-	515.1	0.994	1922.7	0.996
-	-	-	-	528.0	0.991	1935.5	0.993
-	-	-	-	540.9	1.000	1948.4	0.991
-	-	-	-	553.7	0.997	1961.3	0.994
-	-	-	-	566.6	0.989	1974.2	1.004
-	-	-	-	579.5	0.992	1987.0	1.000
-	-	-	-	592.3	0.987	1999.9	0.999
-	-	-	-	605.2	0.994	2012.8	0.997
-	-	-	-	618.1	0.998	2025.6	1.003
-	-	-	-	631.0	0.987	2038.5	0.998
-	-	-	-	643.8	0.993	2051.4	0.991
-	-	-	-	656.7	0.988	2064.3	1.007
-	-	-	-	669.6	0.998	2077.1	0.992
-	-	-	-	682.4	0.994	2090.0	0.998
-	-	-	-	695.3	0.997	2151.0	1.001
-	-	-	-	708.2	0.994	2211.9	0.995
-	-	-	-	721.1	0.993	2272.9	0.994
-	-	-	-	733.9	0.992	2333.9	0.999
-	-	-	-	746.8	0.991	2394.8	0.998
-	-	-	-	759.7	0.989	2455.8	0.998
-	-	-	-	772.5	0.992	2516.8	1.001
-	-	-	-	785.4	0.990	2577.7	1.005
-	-	-	-	798.3	0.995	2638.7	0.999
-	-	-	-	811.2	0.992	2699.6	1.003
-	-	-	-	824.0	0.990	2760.6	0.996
-	-	-	-	836.9	0.990	2821.6	1.002
-	-	-	-	849.8	0.988	2882.5	1.008
-	-	-	-	862.7	0.989	2943.5	0.997
-	-	-	-	875.5	0.991	3004.5	1.002
-	-	-	-	888.4	0.989	3065.4	1.000
-	-	-	-	901.3	0.994	3126.4	1.002
-	-	-	-	914.1	0.992	3187.4	0.995
-	-	-	-	927.0	0.990	3248.3	1.000
-	-	-	-	939.9	0.988	3309.3	1.003
-	-	-	-	952.8	0.996	3370.3	1.005
-	-	-	-	965.6	0.998	-	-
-	-	-	-	978.5	0.993	-	-
-	-	-	-	991.4	0.998	-	-
-	-	-	-	1004.2	0.996	-	-
-	-	-	-	1017.1	0.994	-	-

Table S7.9. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₄min][PF₆]-based SLM. *Part 9.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
-	-	-	-	1030.0	0.996	-	-
-	-	-	-	1042.9	0.995	-	-
-	-	-	-	1055.7	0.984	-	-
-	-	-	-	1068.6	0.999	-	-
-	-	-	-	1081.5	1.004	-	-
-	-	-	-	1094.3	0.996	-	-
-	-	-	-	1107.2	0.998	-	-
-	-	-	-	1120.1	0.992	-	-
-	-	-	-	1133.0	0.991	-	-
-	-	-	-	1145.8	0.998	-	-
-	-	-	-	1158.7	0.992	-	-
-	-	-	-	1171.6	0.994	-	-
-	-	-	-	1184.5	0.999	-	-
-	-	-	-	1197.3	0.993	-	-
-	-	-	-	1210.2	0.999	-	-
-	-	-	-	1223.1	0.996	-	-
-	-	-	-	1235.9	0.998	-	-
-	-	-	-	1248.8	0.993	-	-
-	-	-	-	1261.7	0.996	-	-
-	-	-	-	1274.6	0.997	-	-
-	-	-	-	1287.4	0.994	-	-
-	-	-	-	1300.3	1.002	-	-
-	-	-	-	1313.2	0.990	-	-
-	-	-	-	1326.0	0.998	-	-
-	-	-	-	1338.9	0.998	-	-
-	-	-	-	1351.8	1.001	-	-
-	-	-	-	1364.7	0.997	-	-
-	-	-	-	1377.5	0.993	-	-
-	-	-	-	1390.4	0.992	-	-
-	-	-	-	1403.3	0.989	-	-
-	-	-	-	1416.1	0.998	-	-
-	-	-	-	1429.0	0.999	-	-
-	-	-	-	1441.9	1.000	-	-
-	-	-	-	1454.8	0.993	-	-
-	-	-	-	1467.6	0.997	-	-
-	-	-	-	1480.5	0.999	-	-
-	-	-	-	1493.4	0.993	-	-
-	-	-	-	1506.3	0.997	-	-
-	-	-	-	1519.1	0.991	-	-
-	-	-	-	1532.0	0.992	-	-
-	-	-	-	1544.9	0.997	-	-
-	-	-	-	1557.7	0.991	-	-
-	-	-	-	1570.6	0.994	-	-
-	-	-	-	1583.5	0.997	-	-
-	-	-	-	1596.4	0.992	-	-
-	-	-	-	1609.2	0.995	-	-
-	-	-	-	1622.1	0.993	-	-
-	-	-	-	1635.0	0.992	-	-
-	-	-	-	1647.8	0.994	-	-
-	-	-	-	1660.7	0.999	-	-
-	-	-	-	1673.6	0.998	-	-
-	-	-	-	1686.5	0.998	-	-
-	-	-	-	1699.3	1.002	-	-
-	-	-	-	1712.2	0.997	-	-
-	-	-	-	1725.1	0.999	-	-
-	-	-	-	1737.9	1.002	-	-
-	-	-	-	1750.8	0.998	-	-
-	-	-	-	1763.7	0.998	-	-
-	-	-	-	1776.6	0.994	-	-

Table S7.10. Normalised ATR absorbance for the anti-symmetric stretch of CO₂ (wavenumber of 2340.1 cm⁻¹) in [C₄min][PF₆]-based SLM. *Part 10.*

25 °C				40 °C			
Dry		Wet		Dry		Wet	
Time	Abs	Time	Abs	Time	Abs	Time	Abs
s	a.u.	s	a.u.	s	a.u.	s	a.u.
-	-	-	-	1789.4	0.996	-	-
-	-	-	-	1802.3	1.006	-	-
-	-	-	-	1815.2	1.001	-	-
-	-	-	-	1828.1	0.997	-	-
-	-	-	-	1840.9	0.994	-	-
-	-	-	-	1853.8	1.000	-	-
-	-	-	-	1866.7	0.998	-	-
-	-	-	-	1879.5	0.992	-	-
-	-	-	-	1892.4	1.000	-	-
-	-	-	-	1905.3	1.004	-	-
-	-	-	-	1918.2	0.996	-	-
-	-	-	-	1931.0	1.003	-	-
-	-	-	-	1943.9	1.001	-	-
-	-	-	-	1956.8	1.000	-	-
-	-	-	-	1969.6	1.002	-	-
-	-	-	-	1982.5	1.004	-	-
-	-	-	-	1995.4	0.998	-	-
-	-	-	-	2008.3	0.997	-	-
-	-	-	-	2021.1	1.001	-	-
-	-	-	-	2034.0	1.005	-	-
-	-	-	-	2046.9	0.995	-	-
-	-	-	-	2059.7	0.994	-	-
-	-	-	-	2072.6	1.001	-	-
-	-	-	-	2085.5	0.999	-	-
-	-	-	-	2098.4	1.002	-	-
-	-	-	-	2111.2	0.996	-	-
-	-	-	-	2124.1	1.000	-	-
-	-	-	-	2137.0	1.006	-	-
-	-	-	-	2149.9	1.004	-	-
-	-	-	-	2162.7	1.004	-	-
-	-	-	-	2175.6	1.005	-	-
-	-	-	-	2188.5	1.000	-	-
-	-	-	-	2201.3	0.996	-	-
-	-	-	-	2262.3	1.011	-	-
-	-	-	-	2323.3	1.006	-	-
-	-	-	-	2384.2	1.008	-	-
-	-	-	-	2445.2	1.003	-	-
-	-	-	-	2506.2	1.011	-	-
-	-	-	-	2567.1	1.013	-	-
-	-	-	-	2628.1	1.006	-	-
-	-	-	-	2689.1	1.000	-	-
-	-	-	-	2750.0	1.008	-	-
-	-	-	-	2811.0	1.000	-	-
-	-	-	-	2872.0	1.013	-	-
-	-	-	-	2932.9	1.006	-	-
-	-	-	-	2993.9	1.017	-	-
-	-	-	-	3054.9	1.009	-	-
-	-	-	-	3115.8	1.015	-	-
-	-	-	-	3176.8	1.013	-	-
-	-	-	-	3237.7	1.027	-	-
-	-	-	-	3298.7	1.013	-	-
-	-	-	-	3359.7	1.018	-	-
-	-	-	-	3420.6	1.024	-	-
-	-	-	-	3481.6	1.020	-	-

References

- 1 M. Khayet and T. Matsuura, in Membrane Distillation, Elsevier, 2011, pp. 189–225.