

Table S4. The peak intensities ($\times 1000$) at selected wavelengths (cm^{-1}) for bulk soil (bulk), particulate soil organic matter (POM) and mineral-associated organic matter (MAOM).

Treatments	Wavelength				
	1004	1409	1635	2856+2920	3401
Bulk					
C-control	176.4 ^{a1}	1.02 ^a	4.90 ^a	0.27 ^b	0.98 ^a
C-fertN3	178.1 ^a	0.94 ^a	5.51 ^a	0.10 ^a	1.08 ^a
O-control	207.4 ^b	1.30 ^b	6.47 ^b	0.05 ^a	1.48 ^{bc}
O-CC	211.4 ^b	1.32 ^{bc}	7.00 ^{bc}	0.09 ^a	1.42 ^b
O-CC-M	219.2 ^b	1.52 ^c	7.30 ^c	0.00 ^a	1.62 ^c
POM					
C-control	163.7 ^a	0.07 ^a	1.79 ^a	0.00 ^a	0.48 ^a
C-fertN3	179.7 ^b	0.17 ^a	3.54 ^b	0.11 ^{ab}	0.78 ^{ab}
O-control	199.0 ^d	0.65 ^{bc}	4.87 ^c	0.14 ^b	1.26 ^c
O-CC	193.6 ^{cd}	0.71 ^c	4.39 ^{bc}	0.08 ^{ab}	1.32 ^c
O-CC-M	182.8 ^{bc}	0.44 ^b	4.08 ^{bc}	0.12 ^{ab}	0.91 ^b
MAOM					
C-control	337.2 ^{ab}	1.90 ^a	13.68 ^{ab}	0.31 ^a	4.13 ^b
C-fertN3	327.2 ^a	1.91 ^a	13.67 ^{ab}	0.40 ^{ab}	3.91 ^b
O-control	345.4 ^b	1.86 ^a	14.10 ^b	0.29 ^a	3.86 ^{ab}
O-CC	335.8 ^{ab}	2.05 ^{ab}	13.61 ^{ab}	0.75 ^c	3.51 ^a
O-CC-M	332.9 ^{ab}	2.30 ^b	13.02 ^a	0.65 ^{bc}	3.84 ^{ab}

Note. ¹different lowercase letters in the columns indicate statistically significant ($P < 0.05$) farming systems difference.