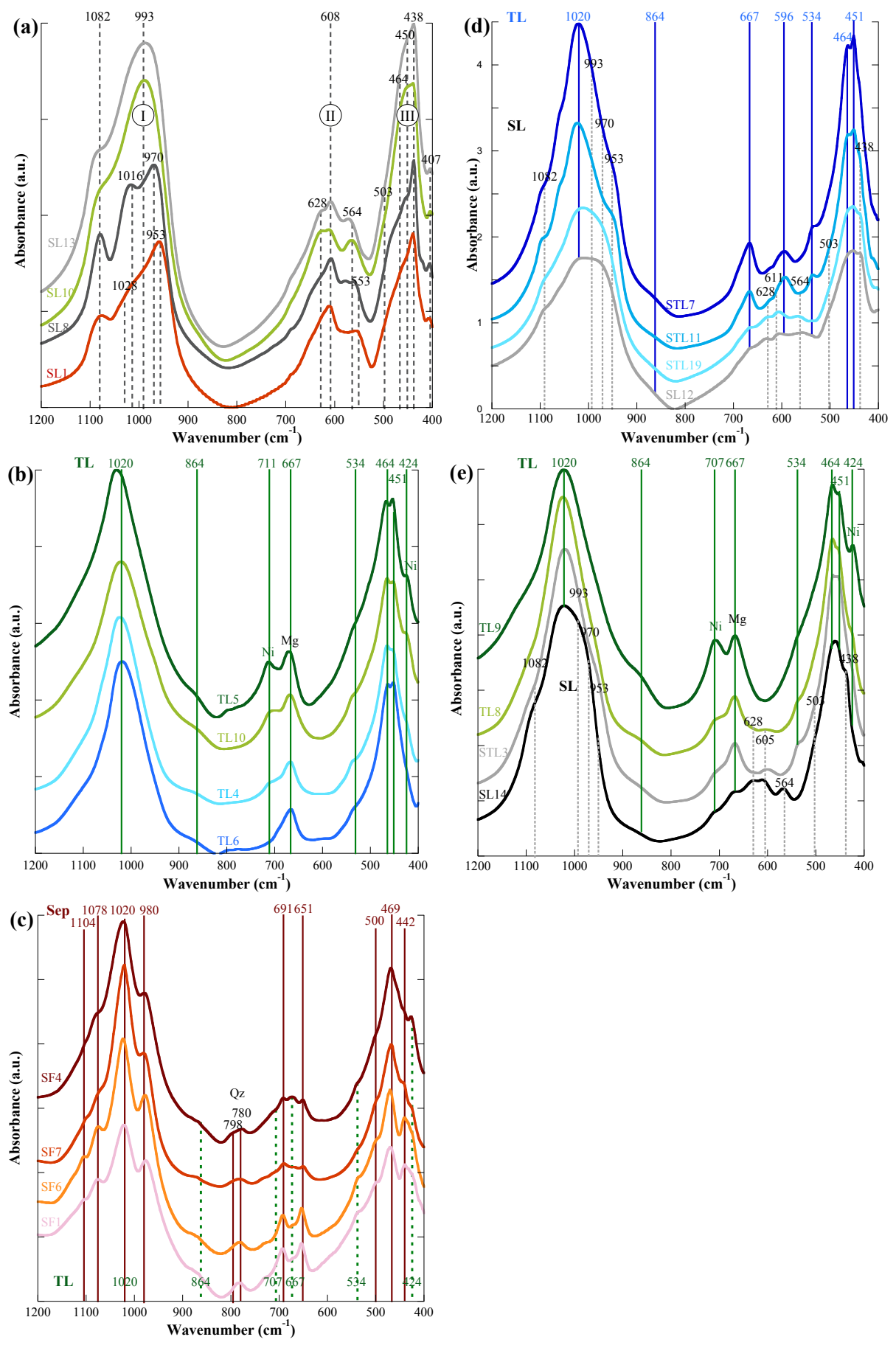
(a)
1082
993
608
438
450
464
I
II
III
970
1016
407
628
564
503
953
553
1028
SL13
SL10
SL8
SL1
Absorbance (a.u.)
Wavenumber (cm-1)
(d)
TL
1020
864
667
596
534
451
464
993
SL
970
953
1082
438
503
611
564
628
STL7
STL11
STL19
SL12
Absorbance (a.u.)
Wavenumber (cm-1)
(b)
TL
1020
864
711
667
534
464
424
451
Ni
Mg
Ni
TL5
TL10
TL4
TL6
Absorbance (a.u.)
Wavenumber (cm-1)
(e)
TL
1020
864
707
667
534
464
424
451
Ni
993
Ni
Mg
TL9
970
1082
SL
953
438
TL8
503
628
605
STL3
564
SL14
Absorbance (a.u.)
Wavenumber (cm-1)
(c)
Sep
1078
1020
980
691
651
469
1104
500
442
Qz
780
798
SF4
SF7
SF6
SF1
TL
1020
864
707
667
534
424
Absorbance (a.u.)
Wavenumber (cm-1)