

Supplementary Files

Application of ^1H HR-MAS NMR-based metabolite fingerprinting of marine microalgae

Carolina da Silva Canielles Caprara ¹, Tatiane Ksyvickas Mathias ², Maria de Fátima C. Santos ², Marcelo G. M. D'Oca ², Caroline Da R. M. D'Oca ², Fabio Roselet ³, Paulo Cesar Abreu ^{3†} and Daniela Fernandes Ramos ^{1,*}

†This work is dedicated to the memory of our dear colleague and mentor, Professor Paulo Cesar Abreu, who passed away on July 19, 2022.

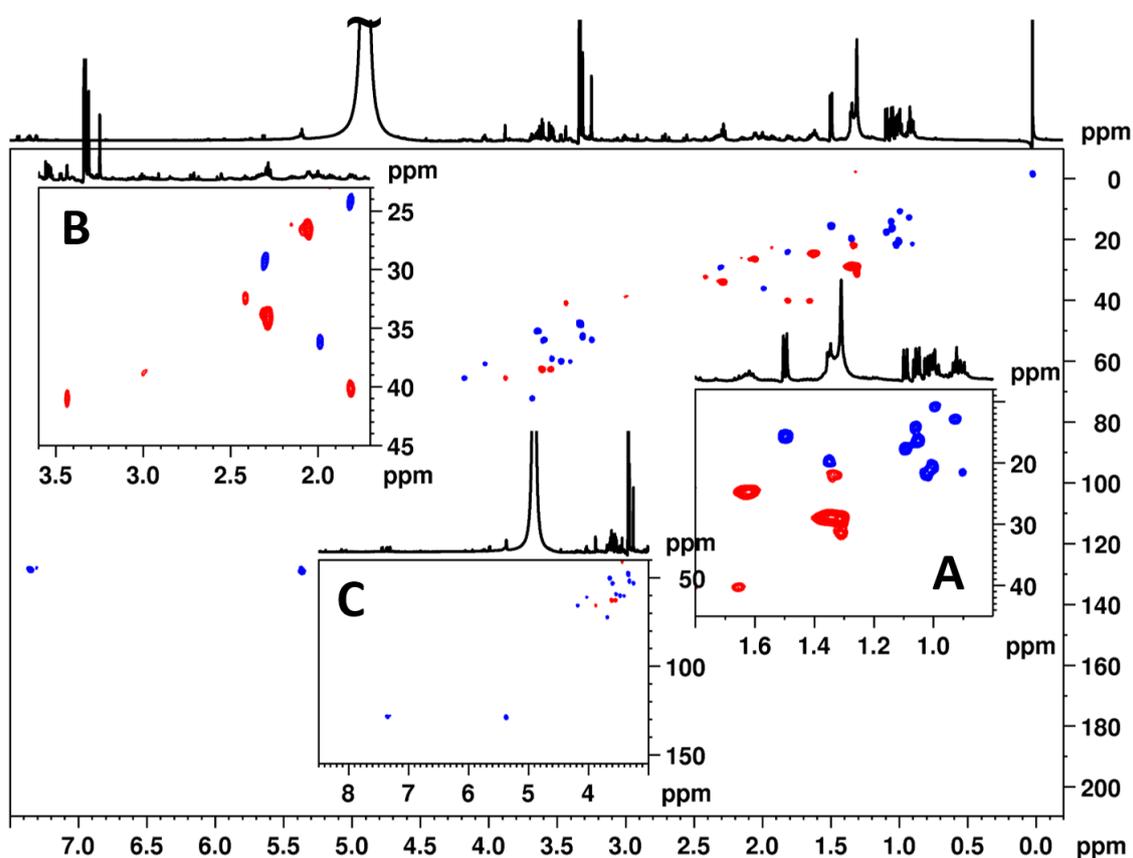


Figure S1. ^1H - ^{13}C one-bond correlation map from multiplicity edited HSQC NMR experiment acquired from *Conticribra weissflogii* (^1H and ^{13}C , 600 and 150 MHz, D_2O) – regions A, B, and C.

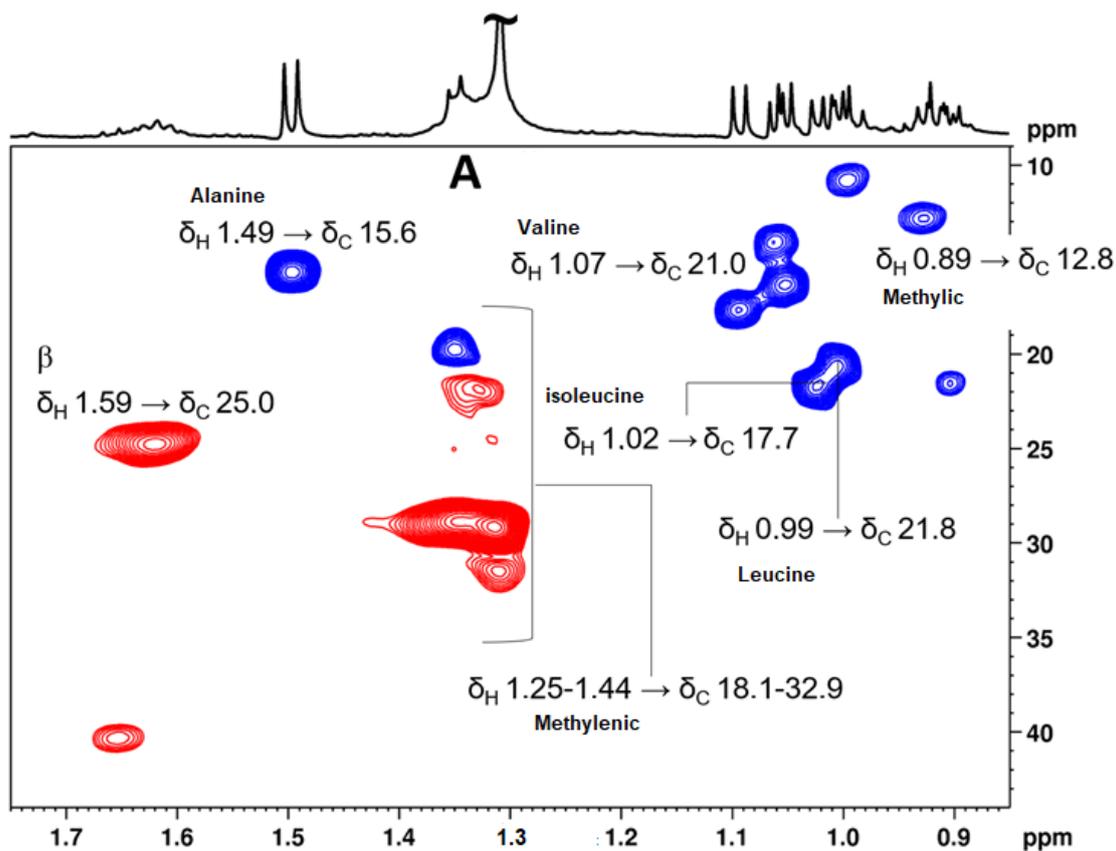


Figure S2. Ampliation from ^1H - ^{13}C one-bond correlation map from multiplicity edited HSQC NMR experiment acquired from *Conticribra weissflogii* (^1H and ^{13}C , 600 and 150 MHz, D_2O) – region A.

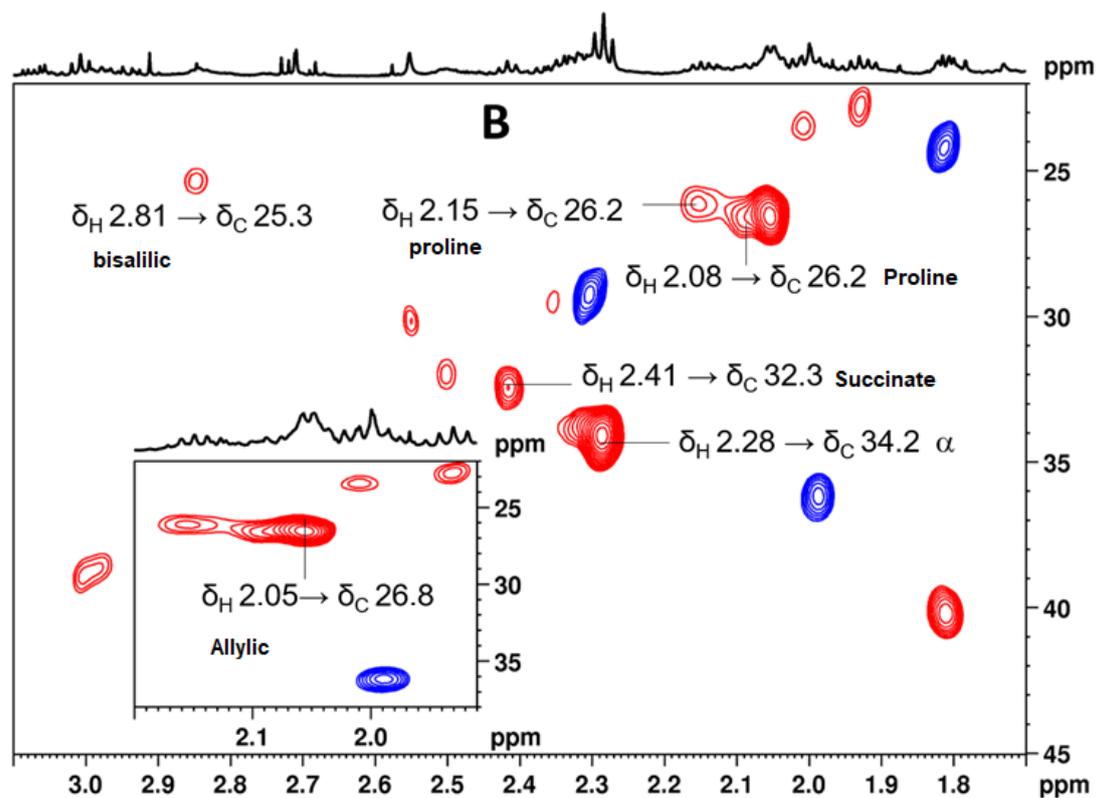


Figure S3. Ampliation from ^1H - ^{13}C one-bond correlation map from multiplicity edited HSQC NMR experiment acquired from *Conticribra weissflogii* (^1H and ^{13}C , 600 and 150 MHz, D_2O) – region B.

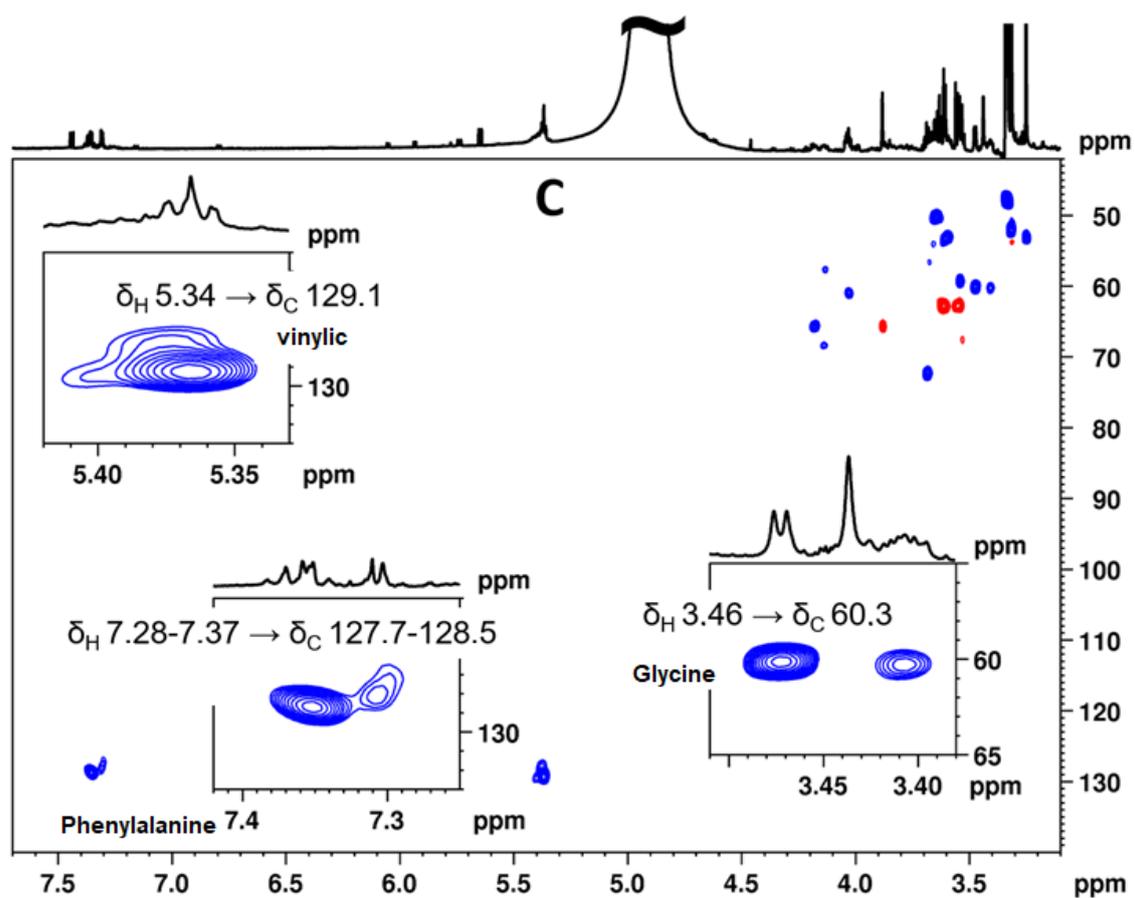


Figure S4. Ampliation from ^1H - ^{13}C one-bond correlation map from multiplicity edited HSQC NMR experiment acquired from *Conticribra weissflogii* (^1H and ^{13}C , 600 and 150 MHz, D_2O) – region C.

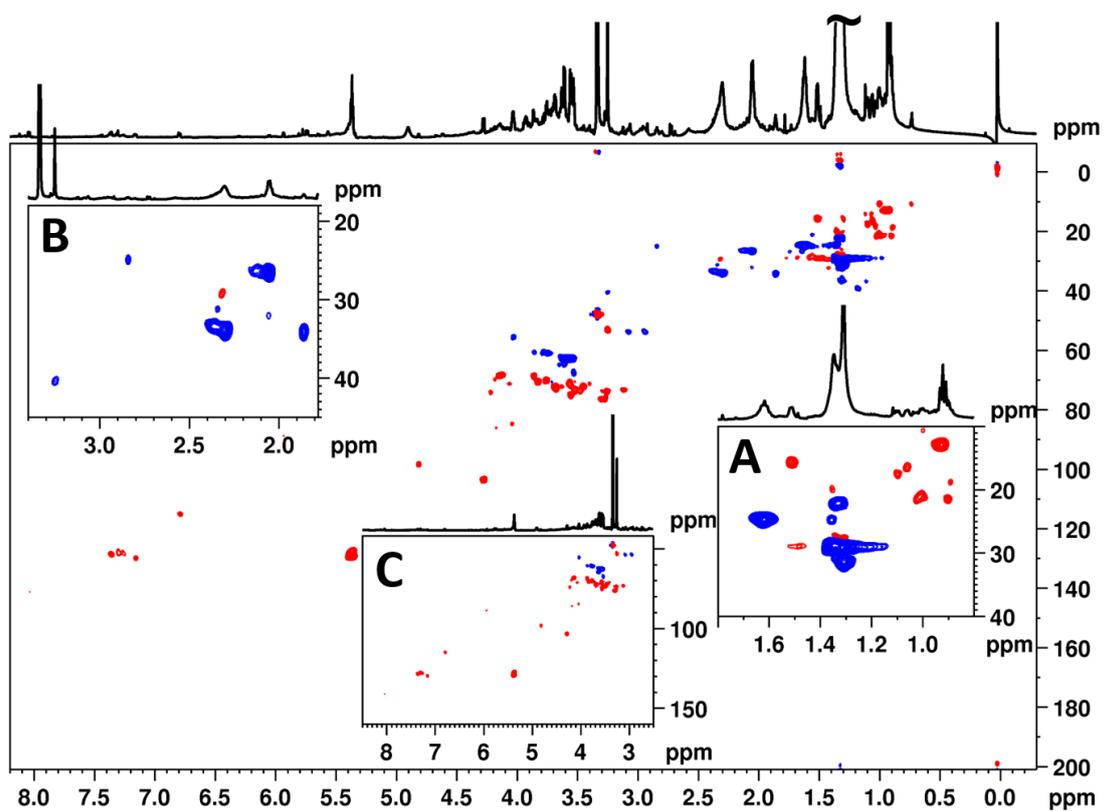


Figure S5. ^1H - ^{13}C one-bond correlation map from multiplicity edited HSQC NMR experiment acquired from *Chaetoceros muelleri* (^1H and ^{13}C , 600.13 and 150.92 MHz, CD_3OD) – regions A, B, and C.

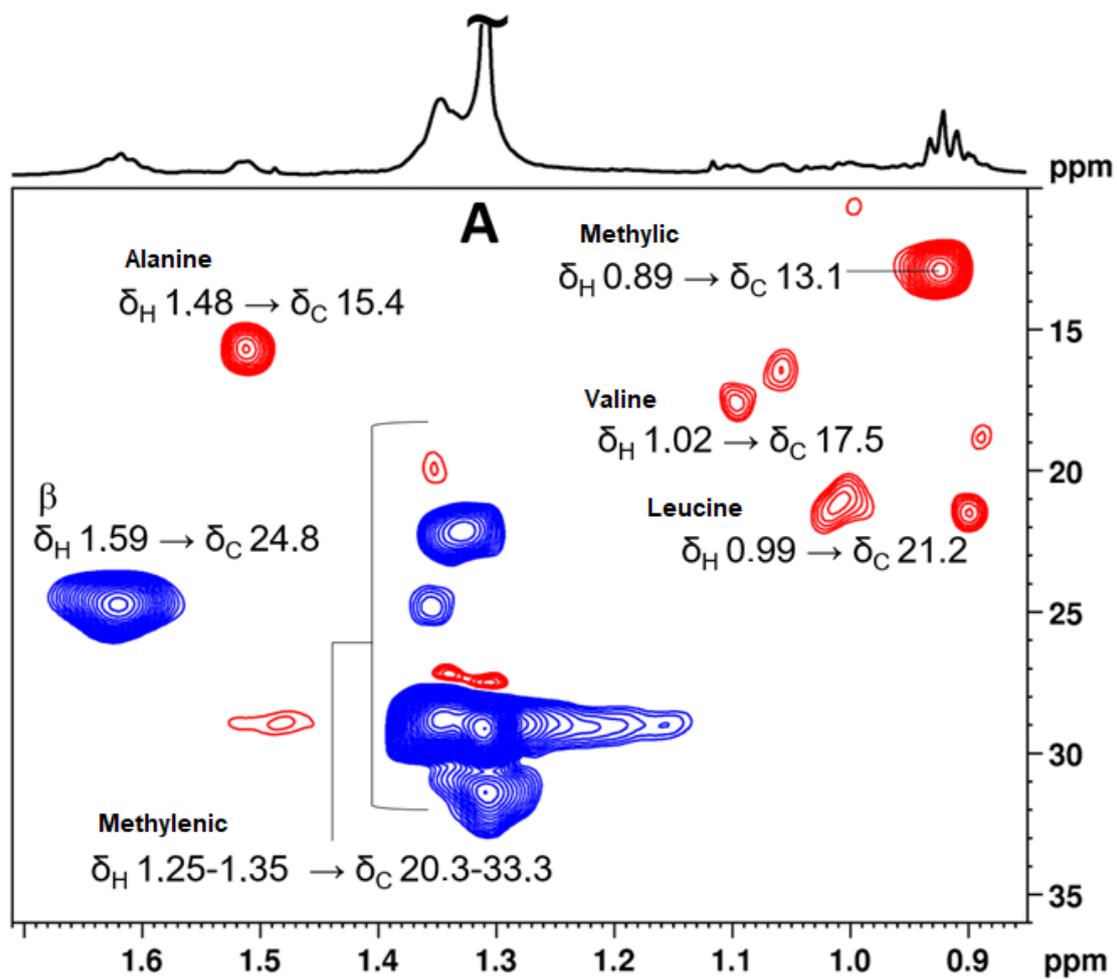


Figure S6. Ampliation from ^1H - ^{13}C one-bond correlation map from multiplicity edited HSQC NMR experiment acquired from *Chaetoceros muelleri* (^1H and ^{13}C , 600.13 and 150.92 MHz, CD_3OD) – region A.

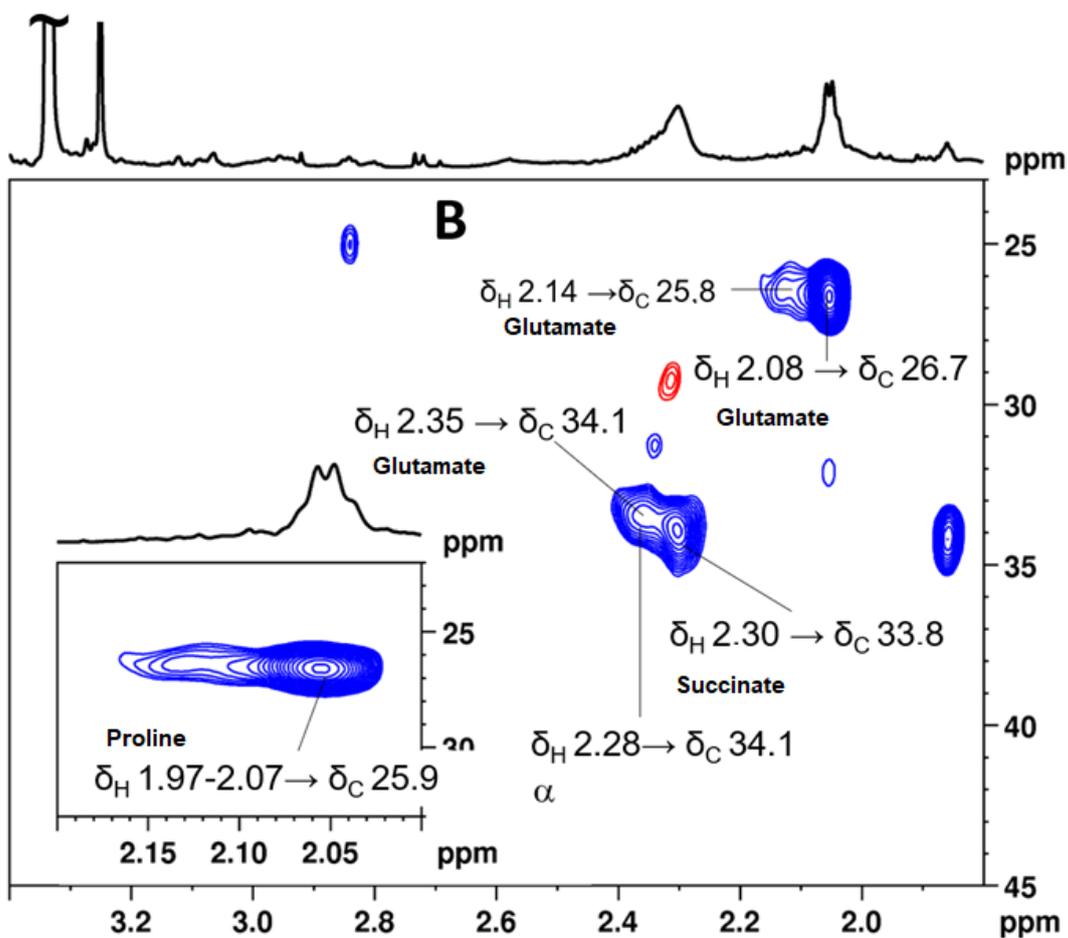


Figure S7. Ampliation from ^1H - ^{13}C one-bond correlation map from multiplicity edited HSQC NMR experiment acquired from *Chaetoceros muelleri* (^1H and ^{13}C , 600.13 and 150.92 MHz, CD_3OD) – region B.

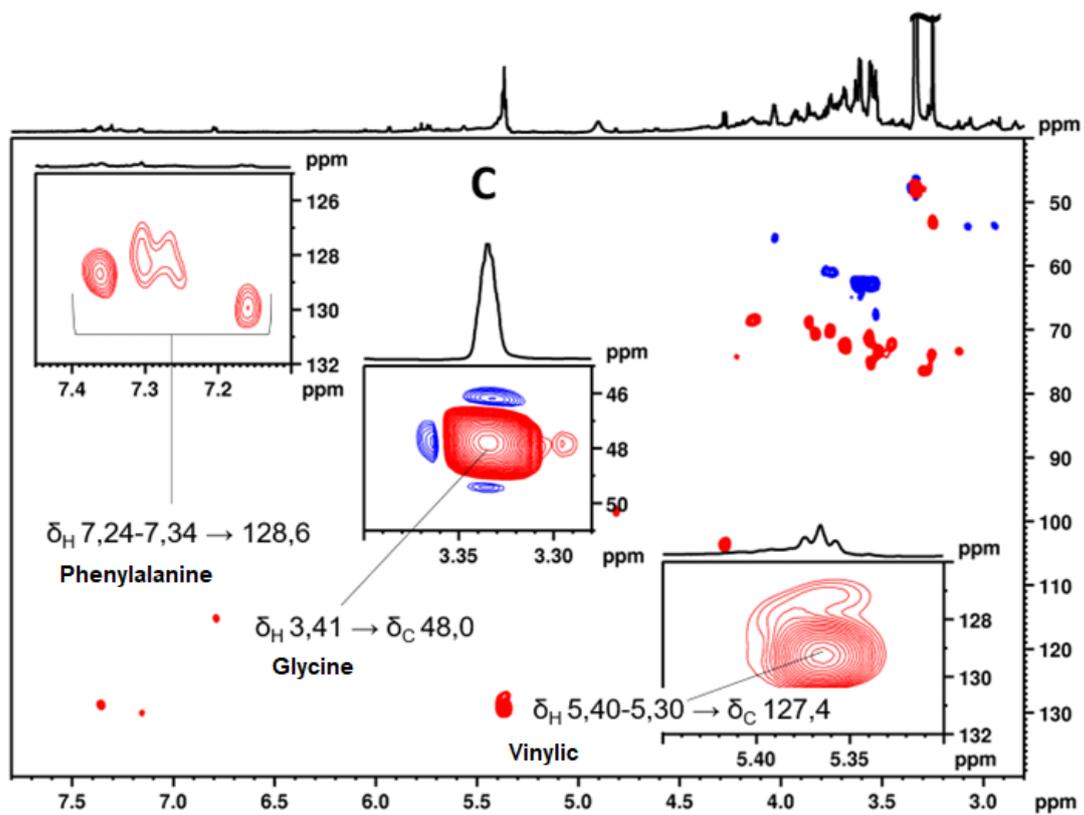


Figure S8. Ampliation from ^1H - ^{13}C one-bond correlation map from multiplicity edited HSQC NMR experiment acquired from *Chaetoceros muelleri* (^1H and ^{13}C , 600.13 and 150.92 MHz, CD_3OD) – region C.

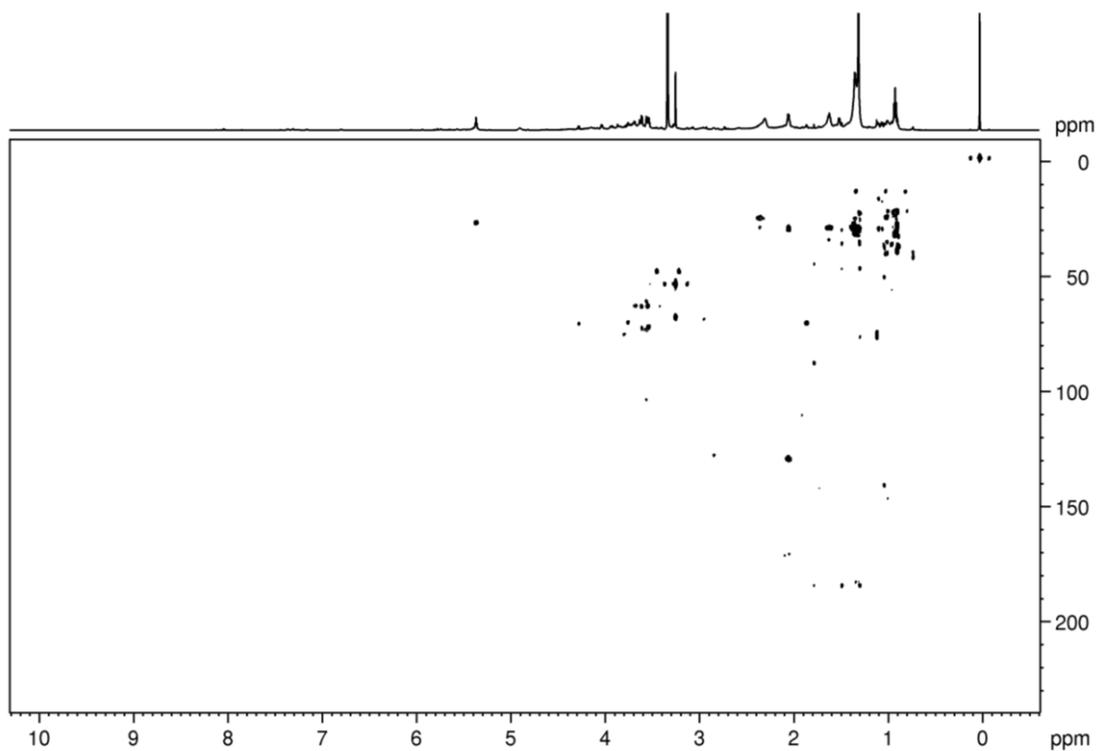


Figure S9. ^1H - ^{13}C long-distance correlation map HMBC NMR experiment acquired from *Chaetoceros muelleri* (^1H and ^{13}C , 600.13 and 150.92 MHz, CD_3OD).

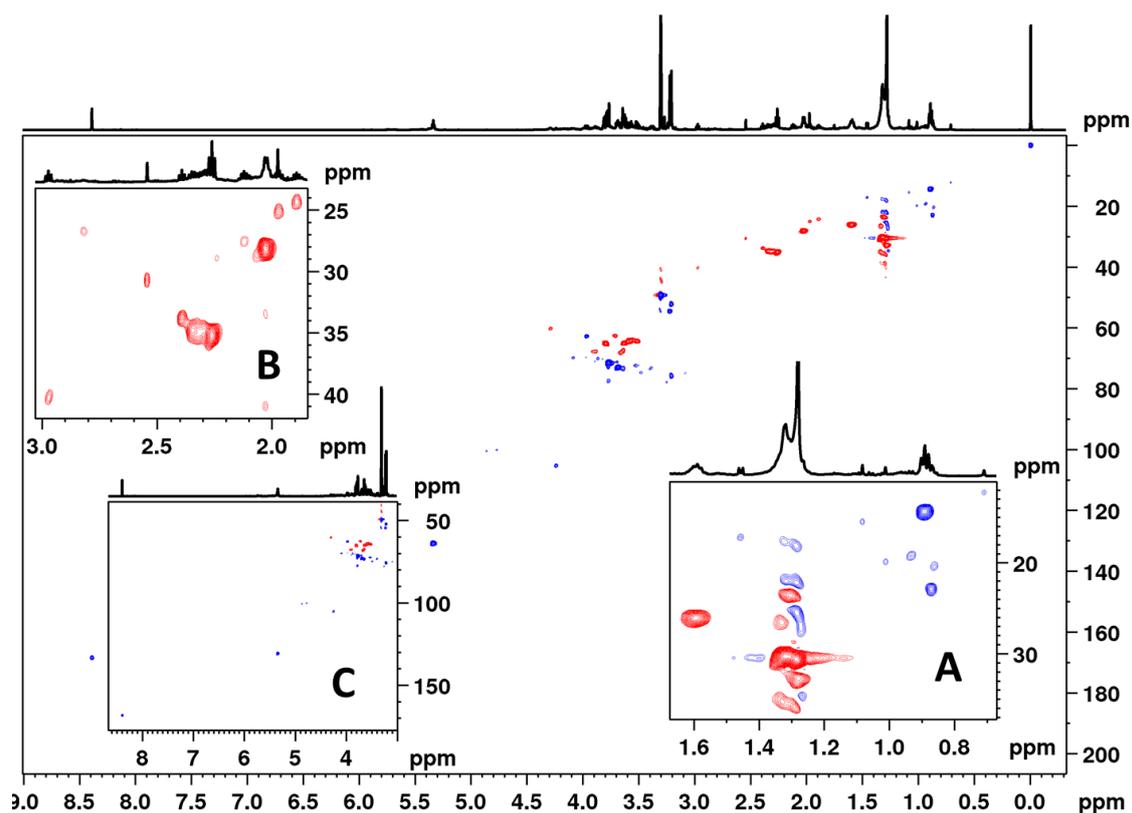


Figure S10. ^1H - ^{13}C one-bond correlation map from multiplicity edited HSQC NMR experiment acquired from *Nannochloropsis oceanica* (^1H and ^{13}C , 600.13 and 150.92 MHz, CD_3OD) – regions A, B, and C.

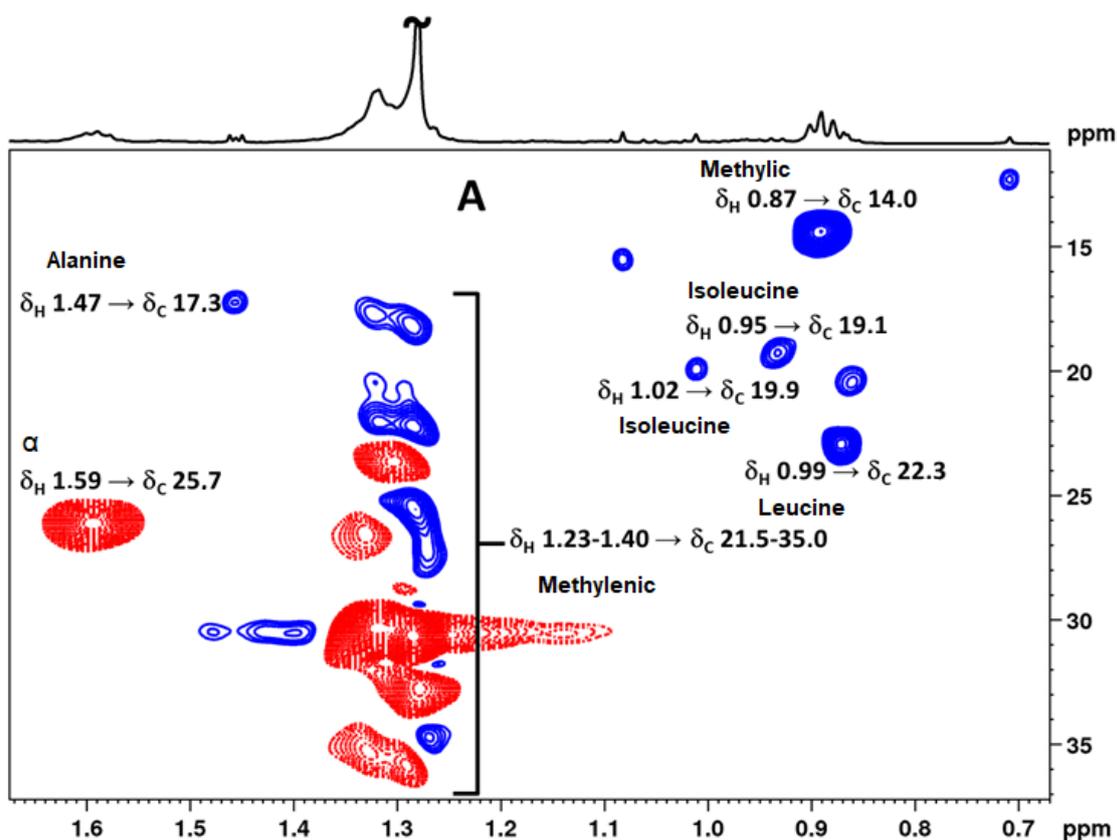


Figure S11. Amplification from ^1H - ^{13}C one-bond correlation map from multiplicity edited HSQC NMR experiment acquired from *Nannochloropsis oceanica* (^1H and ^{13}C , 600.13 and 150.92 MHz, CD_3OD) – region A.

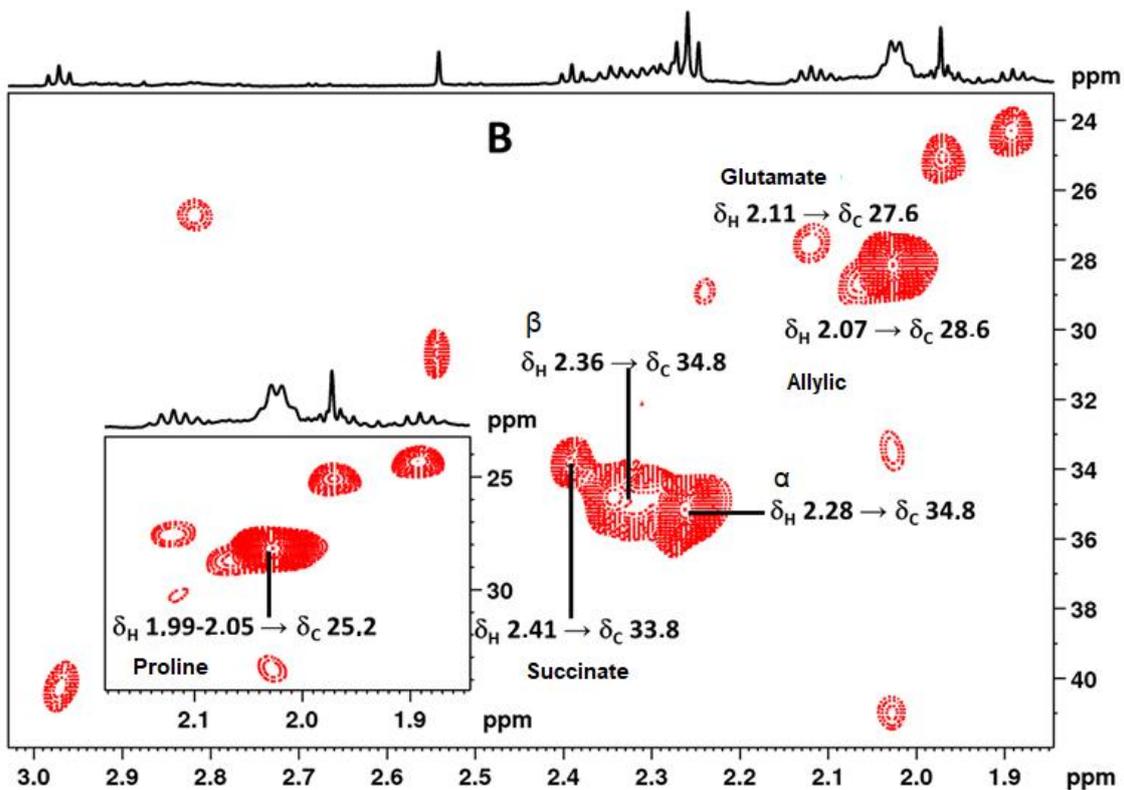


Figure S12. Ampliation from ^1H - ^{13}C one-bond correlation map from multiplicity edited HSQC NMR experiment acquired from *Nannochloropsis oceanica* (^1H and ^{13}C , 600.13 and 150.92 MHz, CD_3OD) – region B.

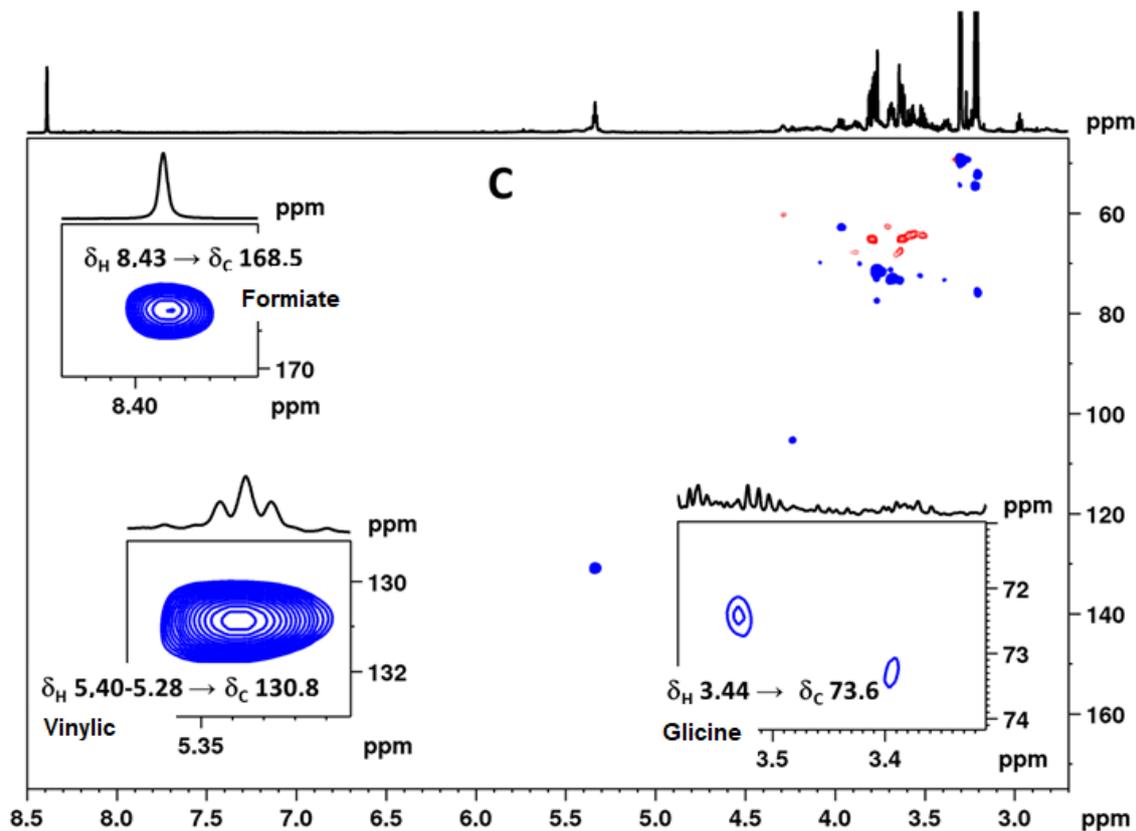


Figure S13. Ampliation from ^1H - ^{13}C one-bond correlation map from multiplicity edited HSQC NMR experiment acquired from *Nannochloropsis oceanica* (^1H and ^{13}C , 600.13 and 150.92 MHz, CD_3OD) – region C.