

Supporting Information

Palladium-Mediated ^{11}C -Carbonylations Using Aryl Halides and Cyanamide

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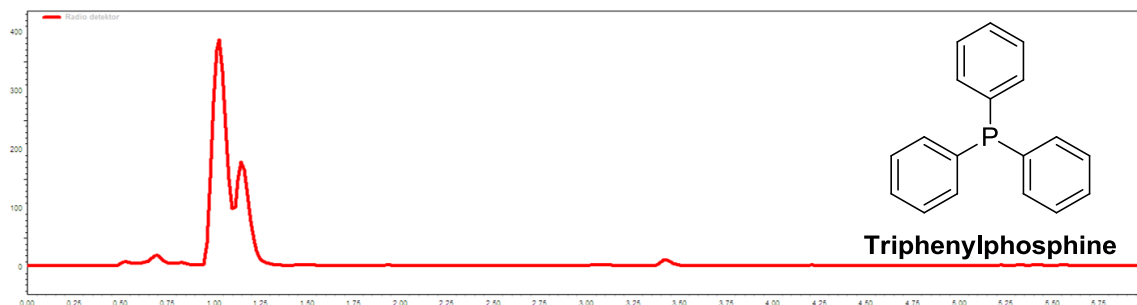
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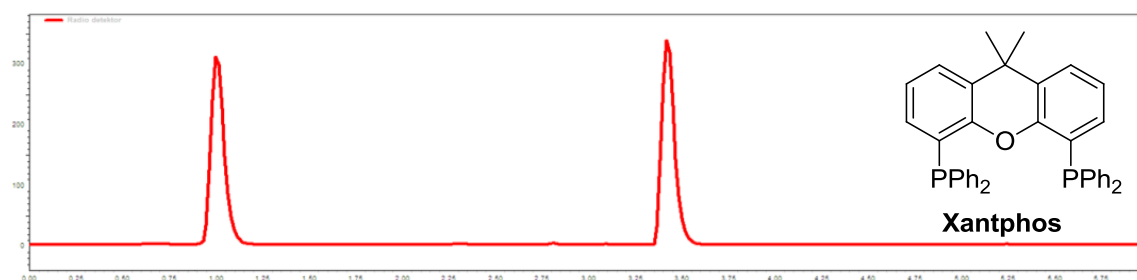
1. Radiochromatograms

From the optimization table 1 using analytical method 1. See general information for more information.
The compound ^{11}C -2a is eluting at 1.0 min.

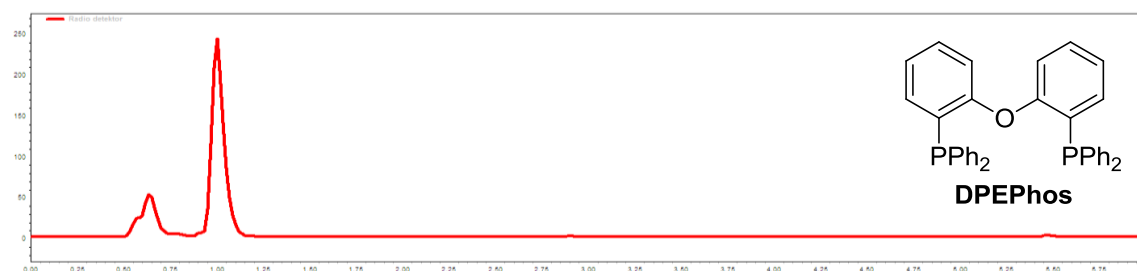
Entry 2, PPh_3 , 120 °C, RTE= 95%, RCP= 75%.



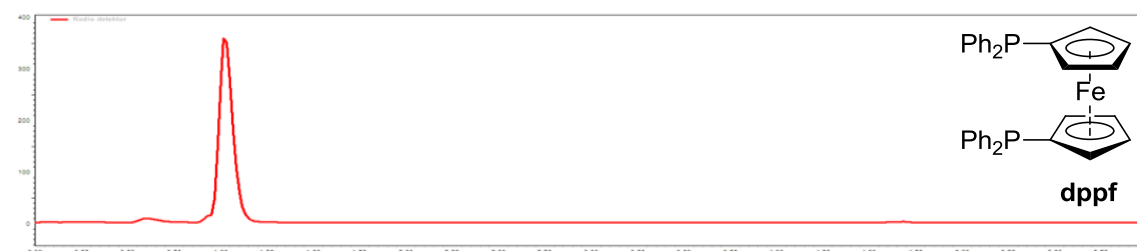
Entry 3, Xantphos, 120 °C, RTE= 91%, RCP= 61%.

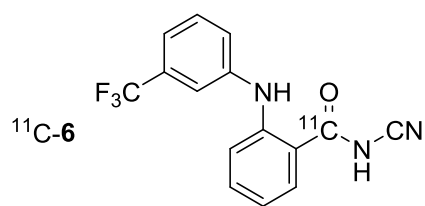


Entry 7, DPEphos, 150 °C, RTE= 82%, RCP= 86%.

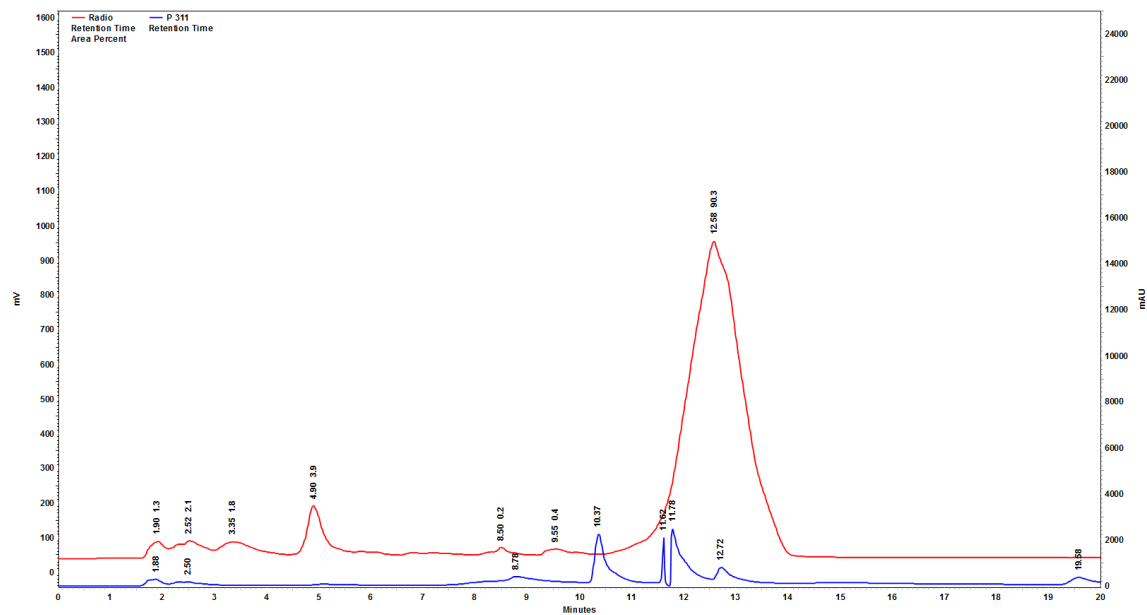


Entry 8, dppf, 120 °C, RTE= >99%, RCP= 94%.

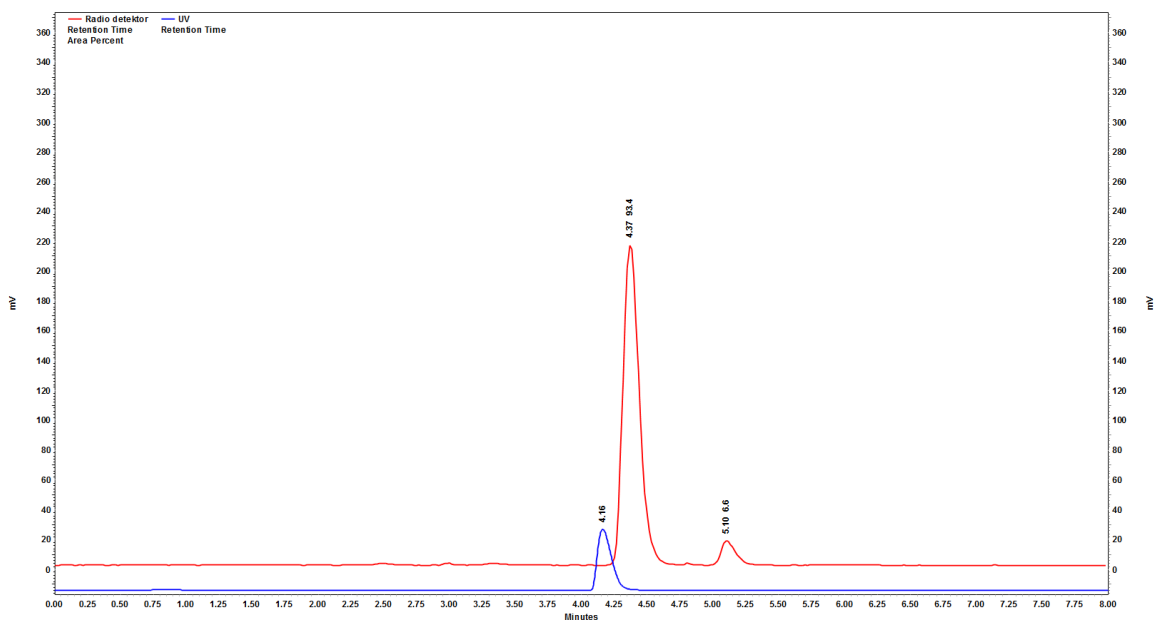


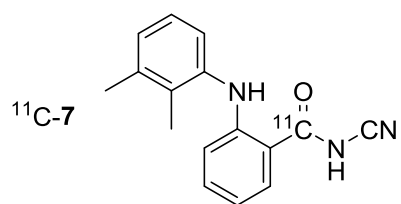


Semipreparative HPLC, collected fraction 12.0-14.0 min.

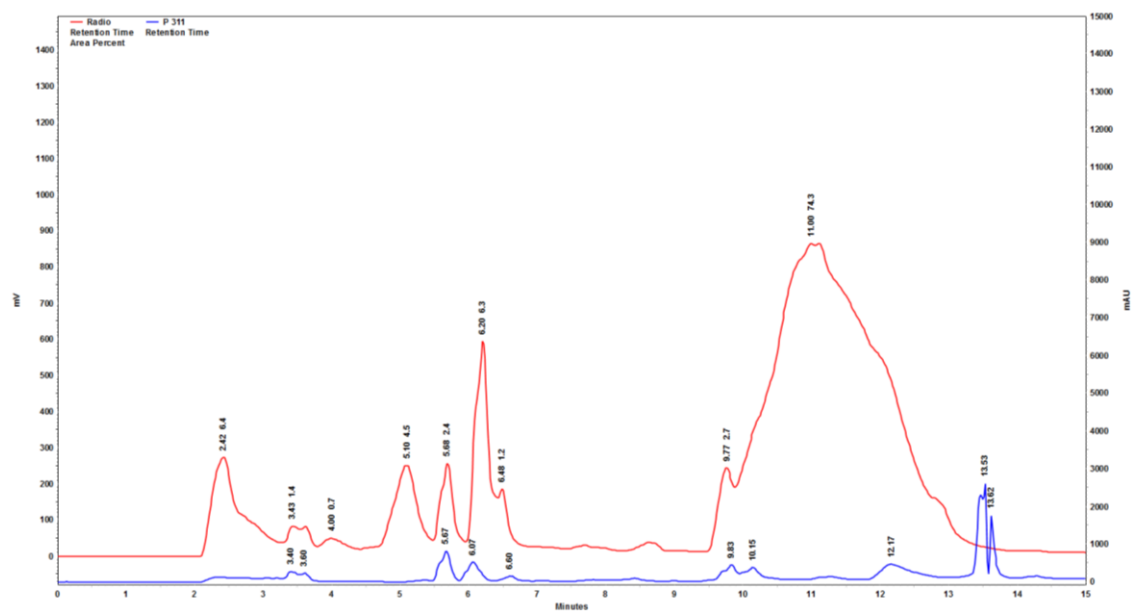


Pure fraction and reference using analytical method 2.

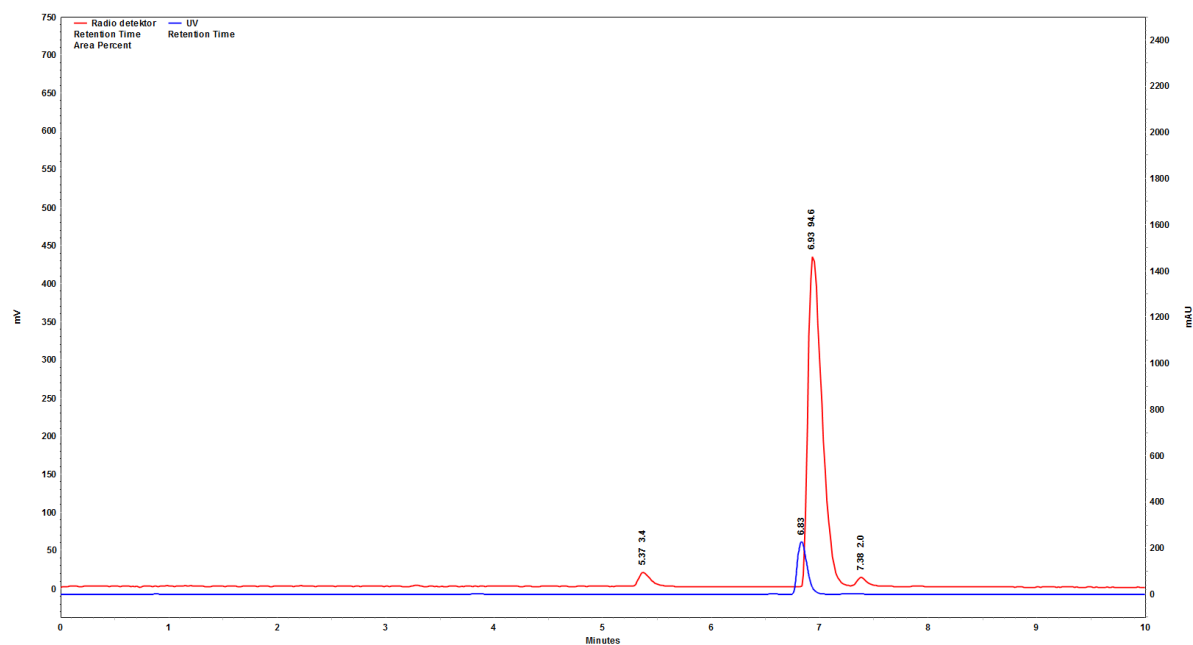


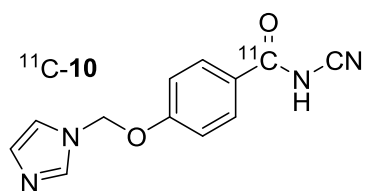


Semipreparative HPLC, collected fraction 10.5-12.5

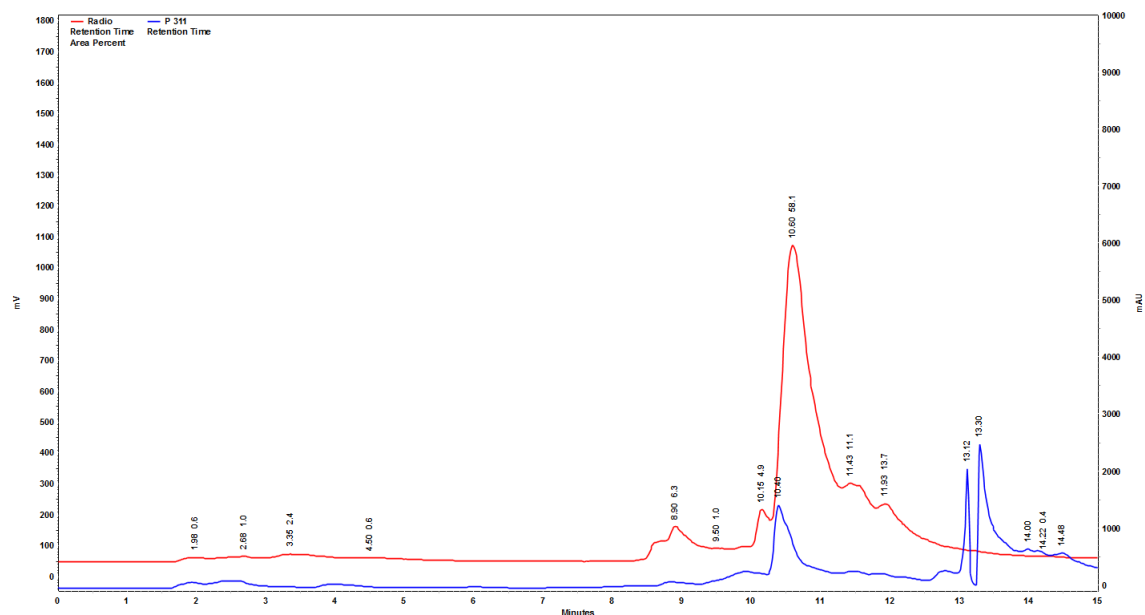


Pure fraction and reference using analytical method 1.

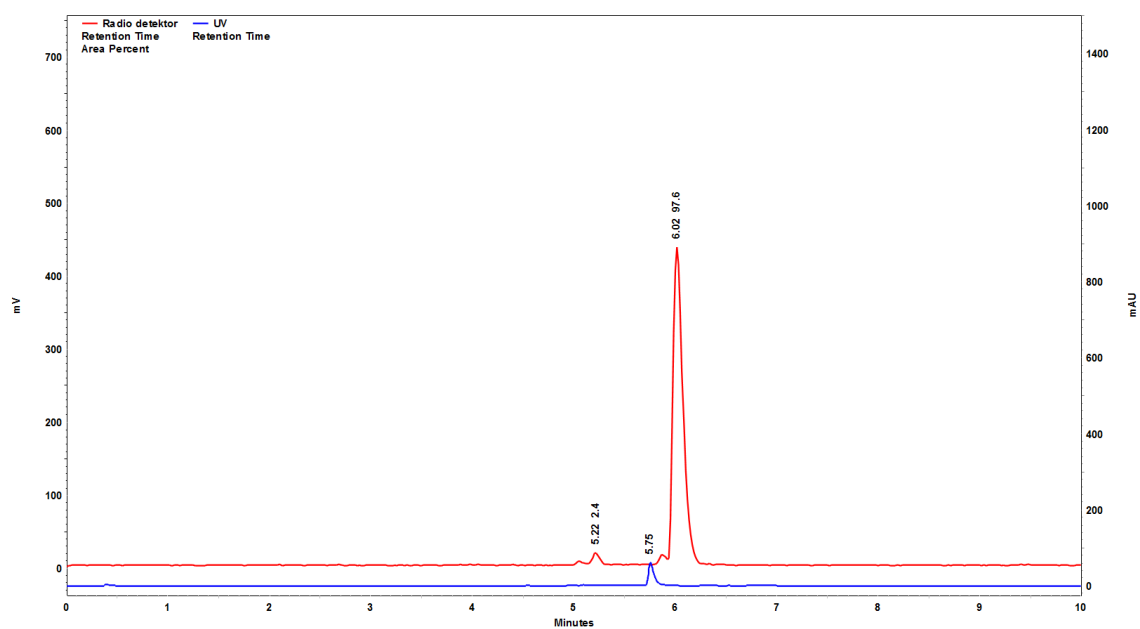


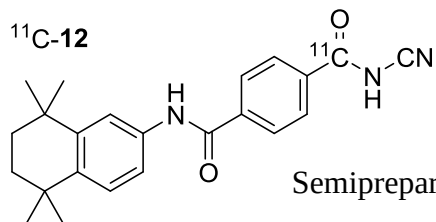


Semipreparative HPLC, collected fraction 10.5-11.0 min

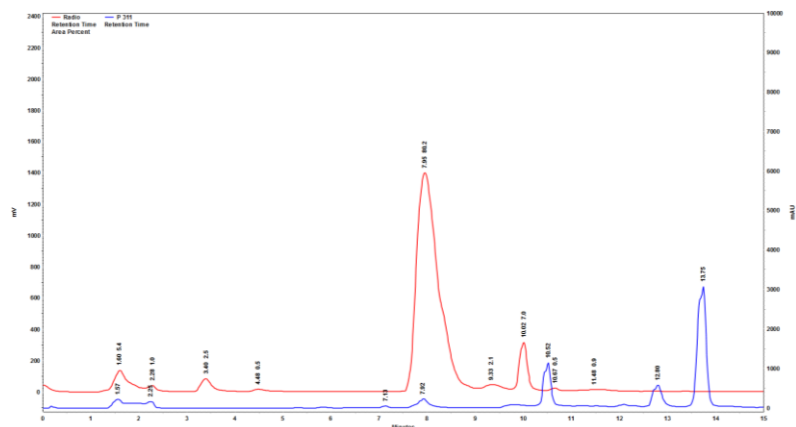


Collected fraction and reference using analytical method 1.

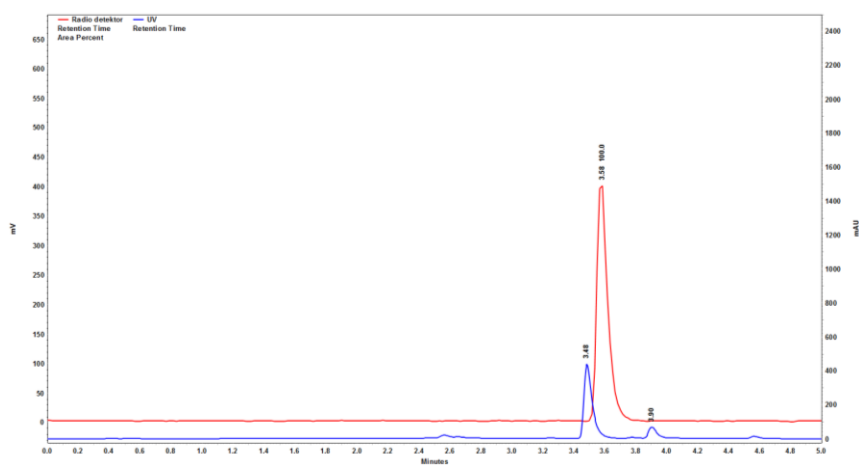




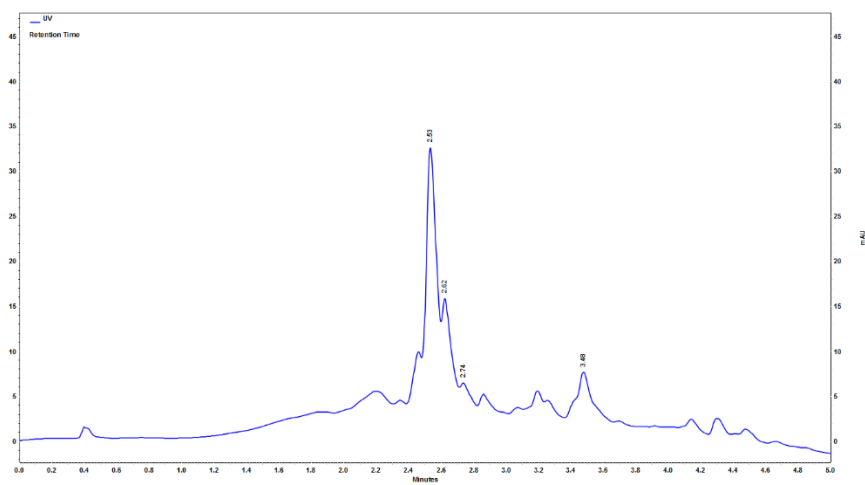
Semipreparative HPLC, collected fraction 7.6-8.6 min.

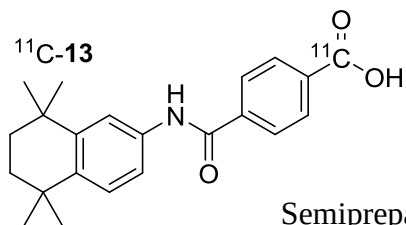


Radio and reference of collected fraction using analytical method 3.

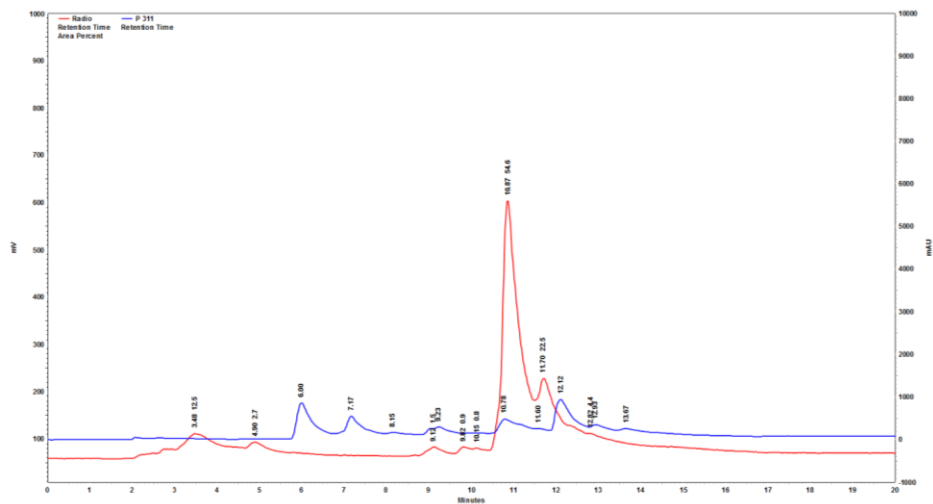


UV of purified fraction using analytical method 3.

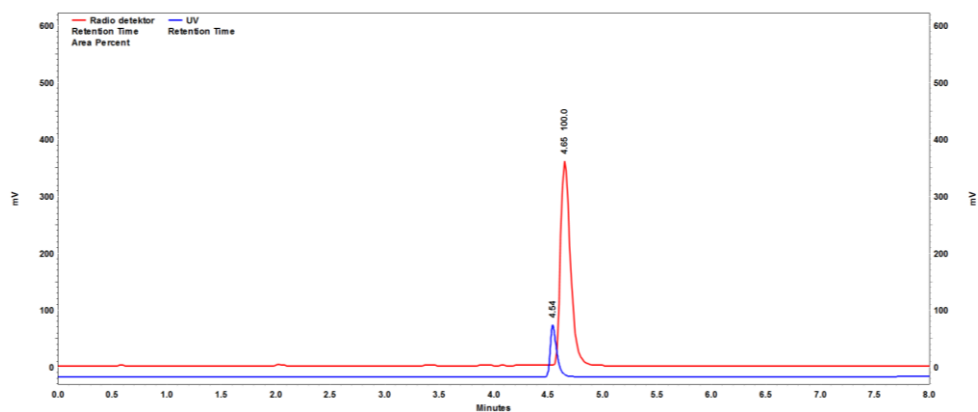




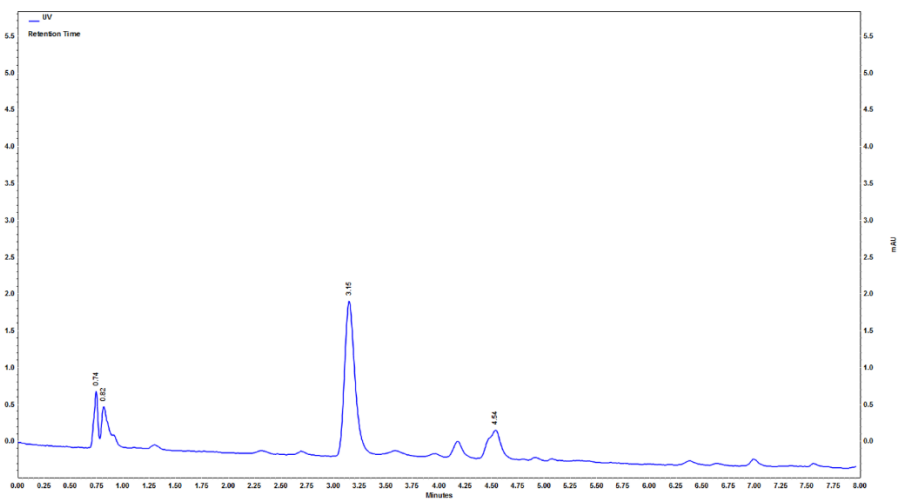
Semipreparative HPLC, collected fraction 10.5-11.2 min



Radio and reference of collected fraction using analytical method 2.



UV of collected fraction using analytical method 2.



2. NMR spectra

