

Supporting Information

for

Preparation of a disulfide linked precipitative soluble support for solution-phase synthesis of trimeric oligodeoxyribonucleotide 3'- (2-chlorophenylphosphate) building blocks

Amit M. Jabgunde^{1,2*}, Alejandro Gimenez Molina¹, Pasi Virta¹ and Harri Lönnberg¹

Address: ¹Department of Chemistry, University of Turku, FIN-20014 Turku, Finland and ²current address: Rega Institute for Medical Research, Minderbroedersstraat 10, KU Leuven, 3000- Leuven, Belgium

Email: Amit M. Jabgunde - amit.jabgunde@gmail.com

*Corresponding author

¹H NMR, ¹³C NMR and DEPT spectra for 2, and 3, ³¹P NMR spectra of 10, mass spectra for 2, 3, 7a–10

Contents

Figure S1. ¹ H and ¹³ C spectra of 2	S2
Figure S2. DEPT spectra of 2	S3
Figure S3. ¹ H and ¹³ C spectra of 3	S4
Figure S4. DEPT spectra of 3	S5
Figure S5. ³¹ P spectra of 10	S6
Figure S6. MS (ESI) spectrum of 2	S7
Figure S7. MS (ESI) spectrum of 3	S8
Figure S8. MS (ESI) spectrum of 7A	S9
Figure S9. MS (ESI) spectrum of 7B	S10
Figure S10. MS (ESI) spectrum of 8A	S11
Figure S11. MS (ESI) spectrum of 8B	S12
Figure S12. MS (ESI) spectrum of 9	S13
Figure S13. MS (ESI) spectrum of 10	S14

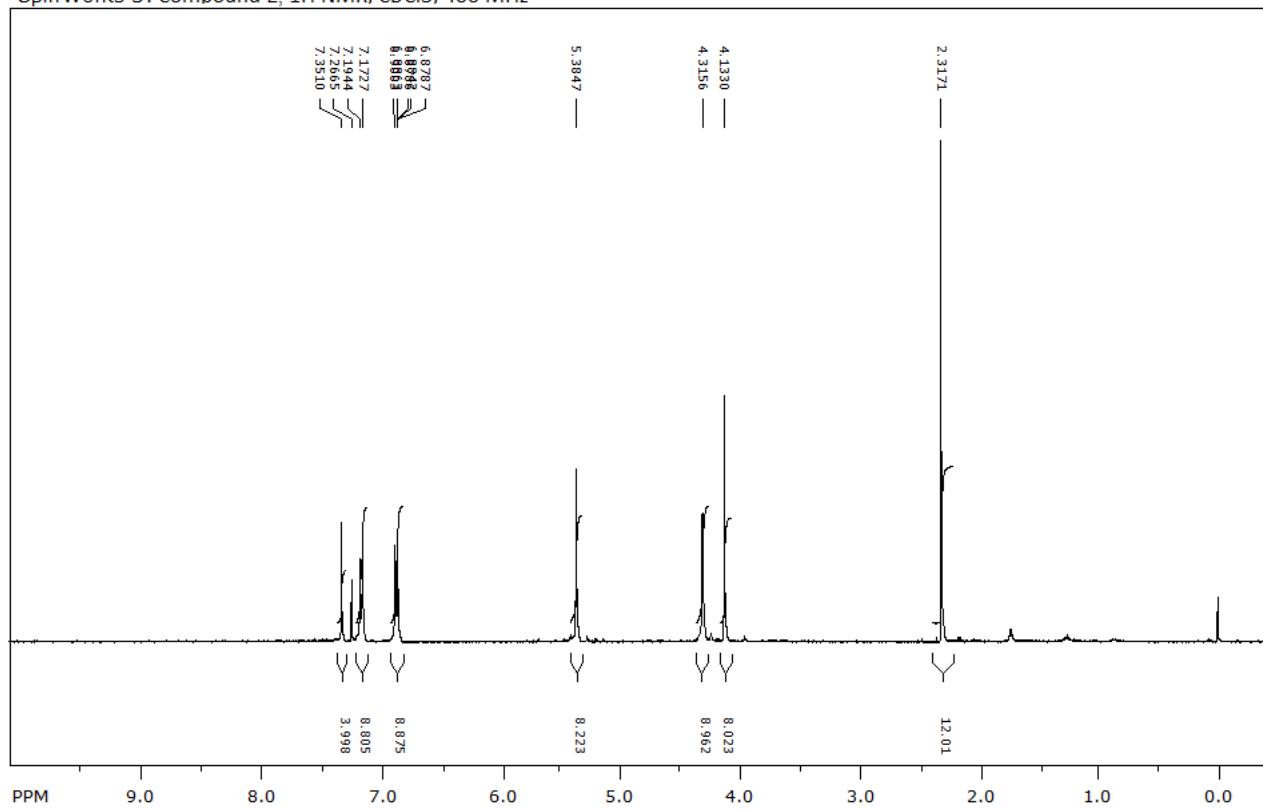
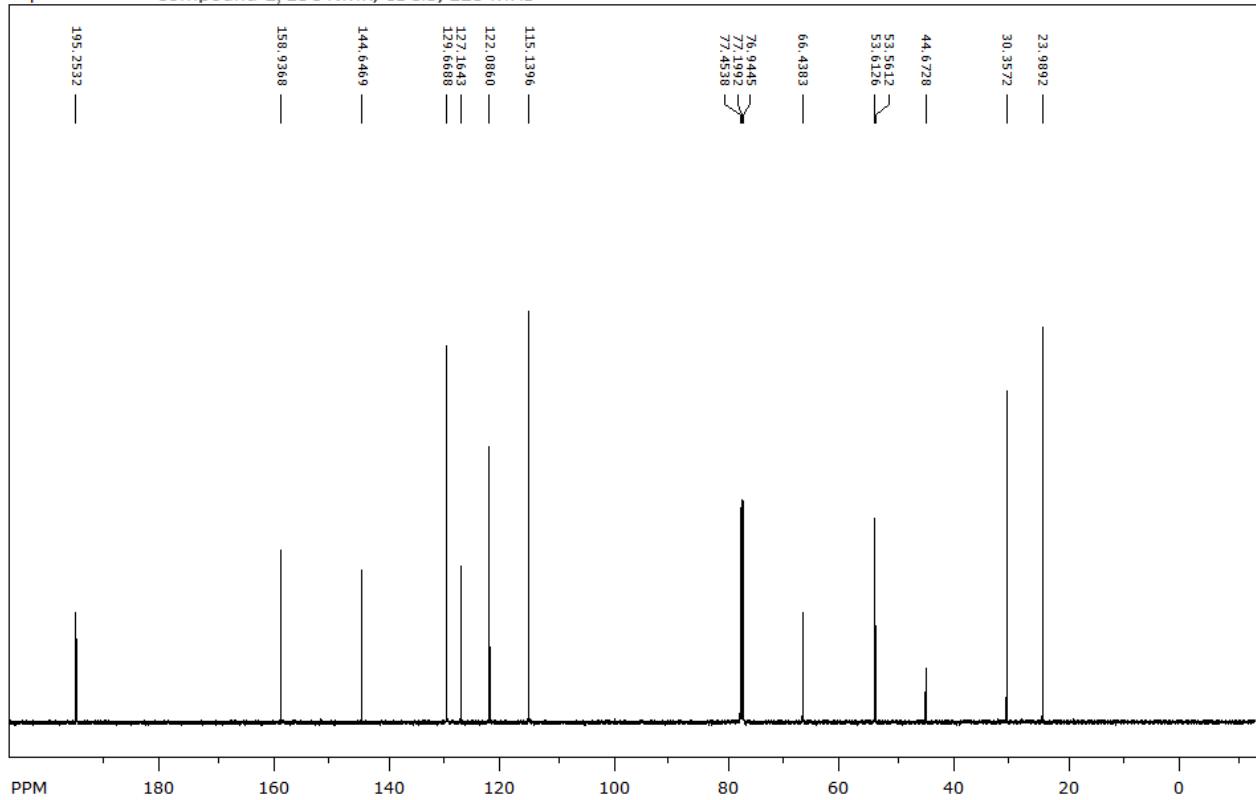
SpinWorks 3: Compound 2, ^1H NMR, CDCl_3 , 400 MHzSpinWorks 3: Compound 2, ^{13}C NMR, CDCl_3 , 125 MHz

Figure S1: ^1H and ^{13}C spectra of 2.

SpinWorks 3: Compound 2, DEPT, CDCl₃, 100 MHz

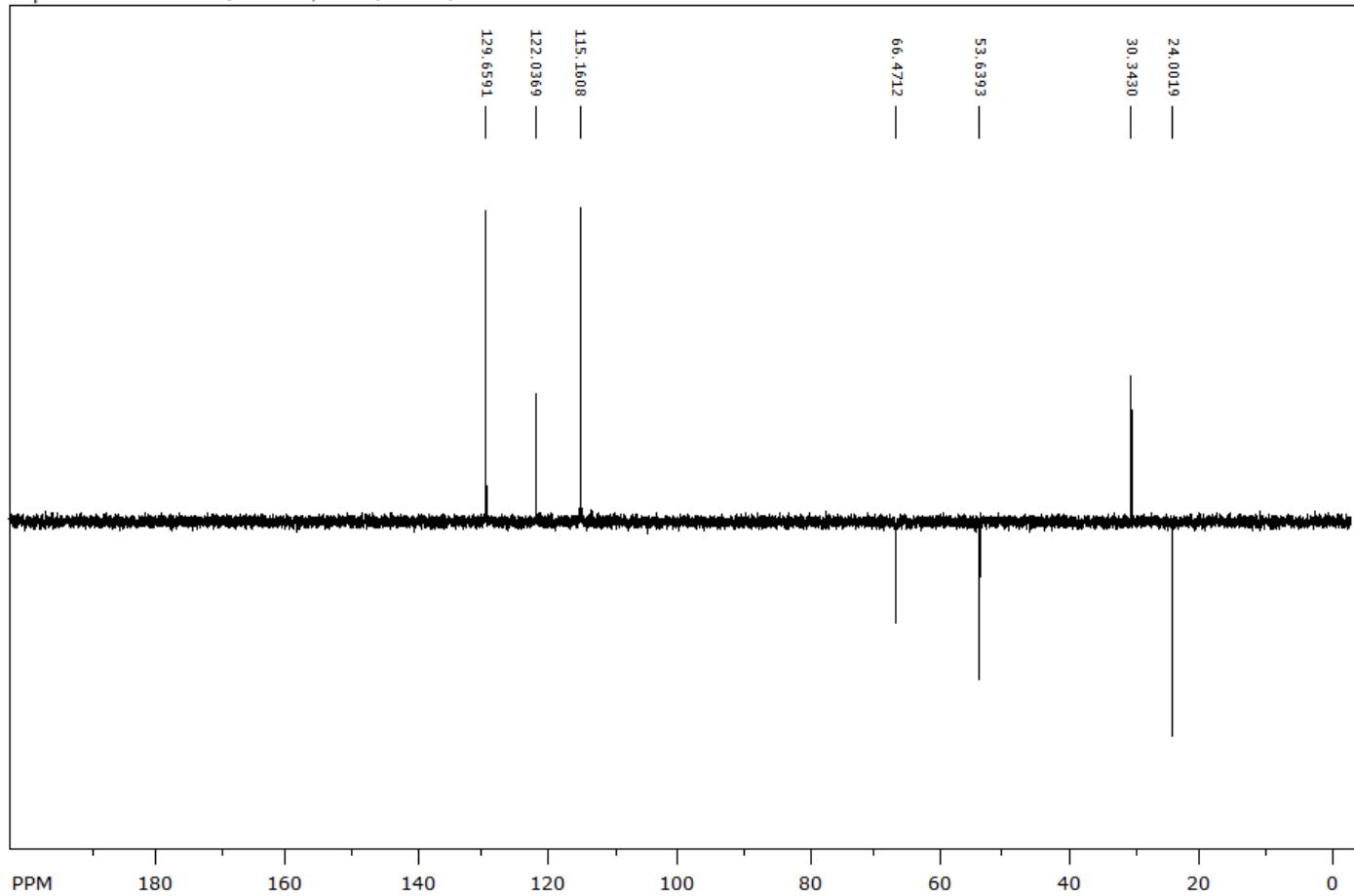
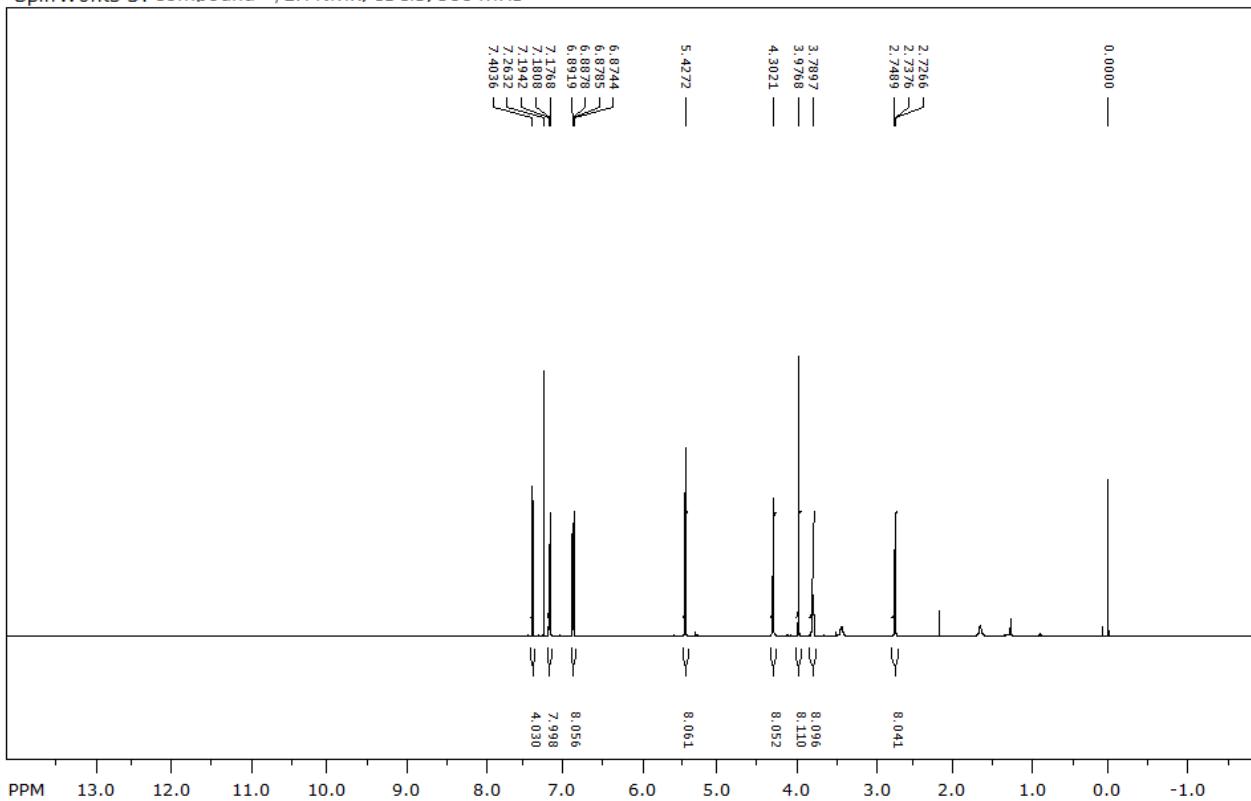


Figure S2: DEPT spectra of **2**.

SpinWorks 3: Compound 3, ^1H NMR, CDCl_3 , 500 MHz



SpinWorks 3: Compound 3, ^{13}C NMR, CDCl_3 , 100 MHz

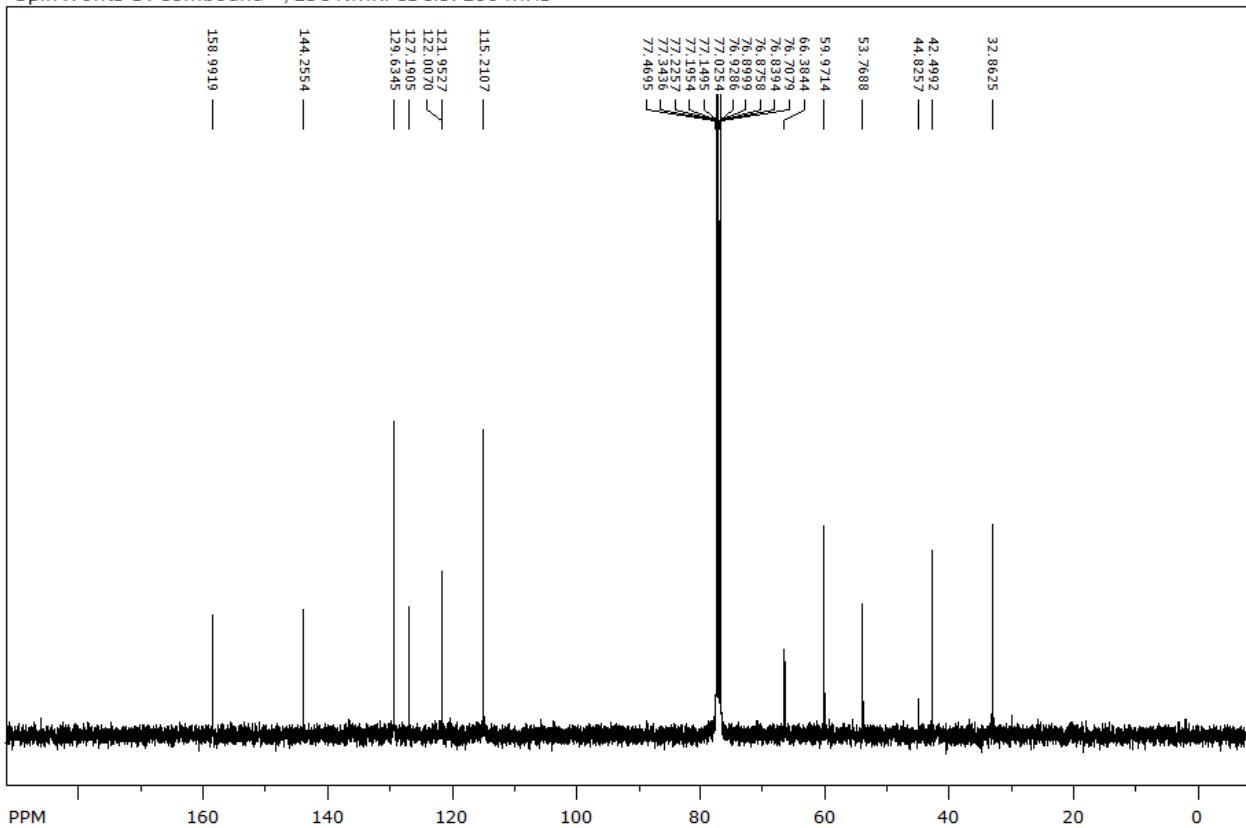


Figure S3: ^1H and ^{13}C spectra of 3.

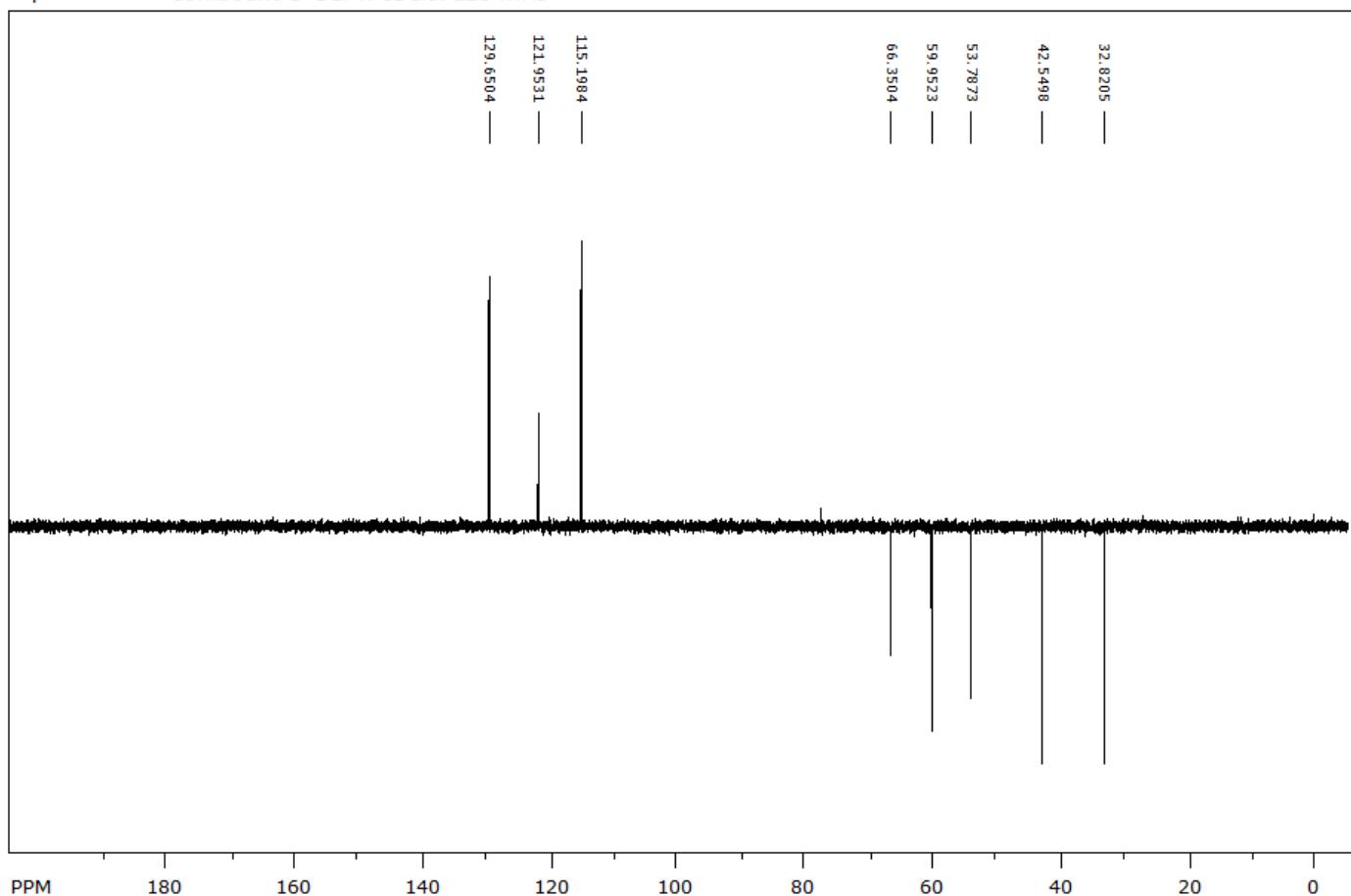
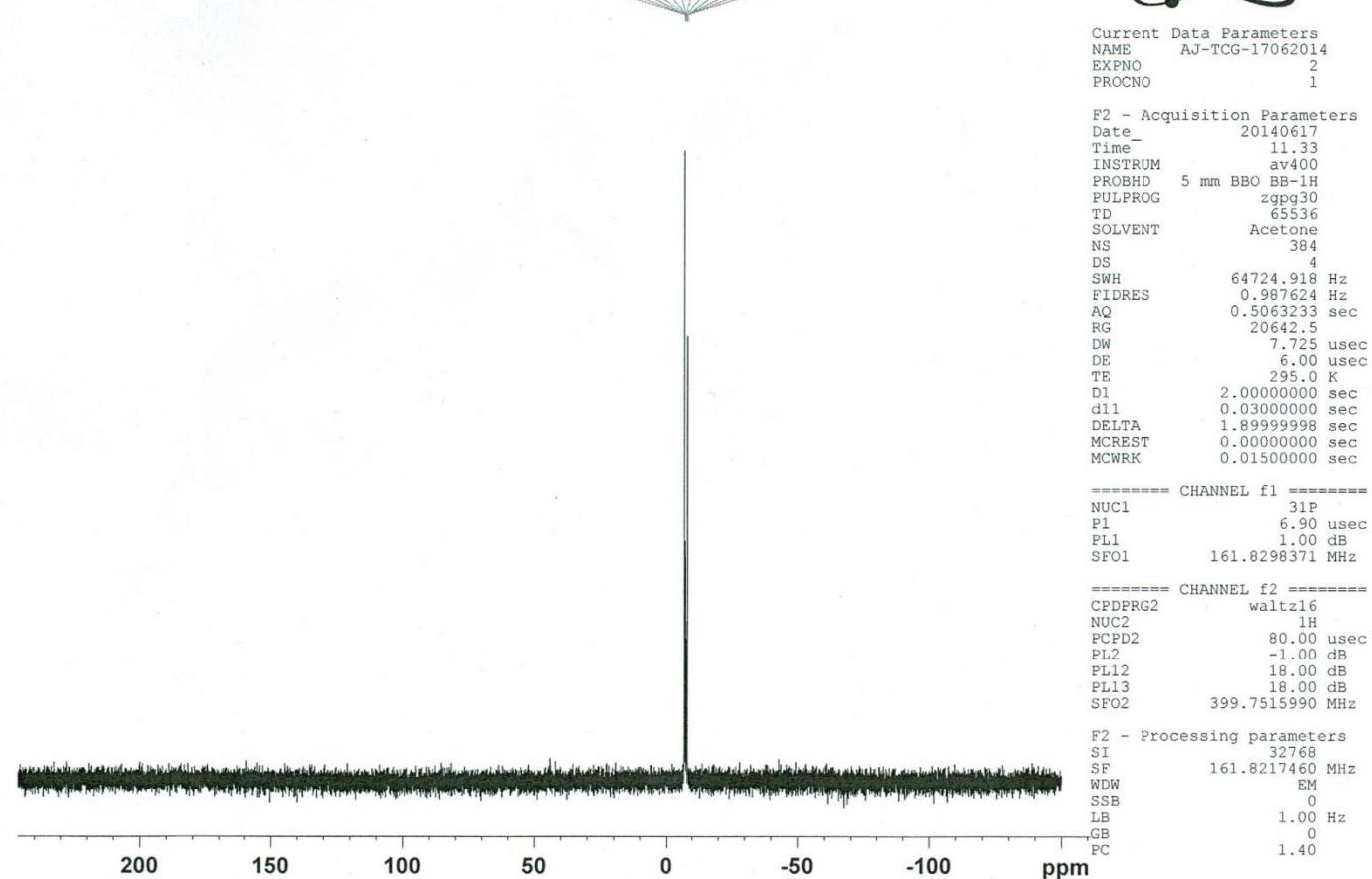


Figure S4: DEPT spectra of **3**.

**Figure S5:** ³¹P spectra of **10**.

Generic Display Report

Analysis Info

Analysis Name D:\Data\Amit\Jan-Mar 2013\AJ-Click-Fin- pos19.0313.d
Method tune_wide pos 12082011working.m
Sample Name AJ-Click-Fin- pos19.0313
Comment

Acquisition Date 3/19/2013 2:41:08 PM

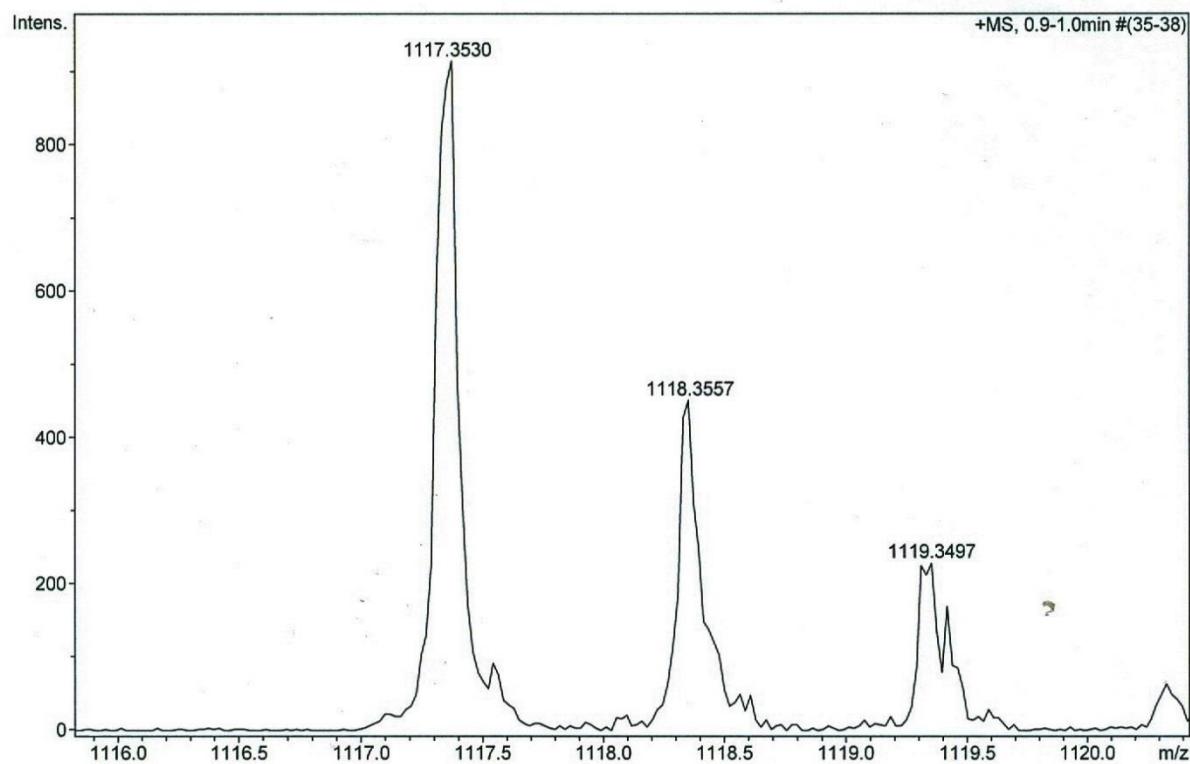
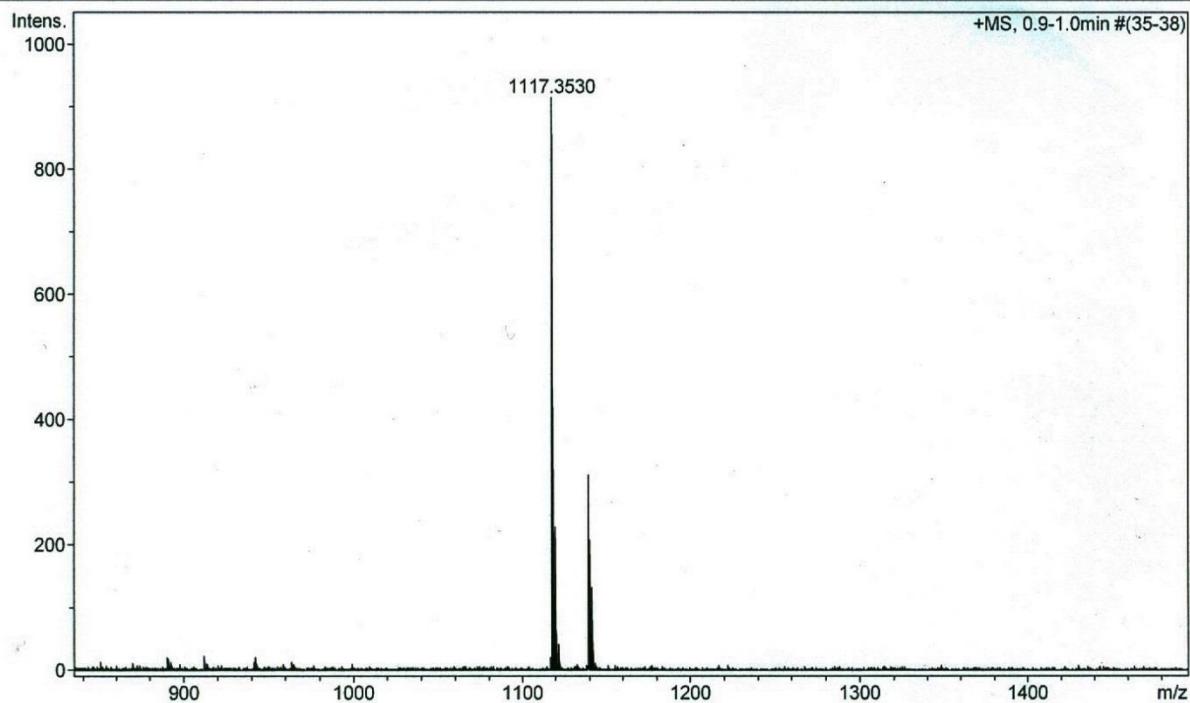
Operator Bruker07
Instrument micrOTOF-Q

Figure S6: MS (ESI) spectrum of **2**.

Generic Display Report

Analysis Info

Analysis Name D:\Data\Amit\April-Aug 2013\AJ-S-S-OH-pos-230513.d
Method tune_wide pos 12082011working.m
Sample Name AJ-S-S-OH-pos-230513
Comment

Acquisition Date 5/23/2013 10:48:59 AM

Operator Bruker07
Instrument micrOTOF-Q

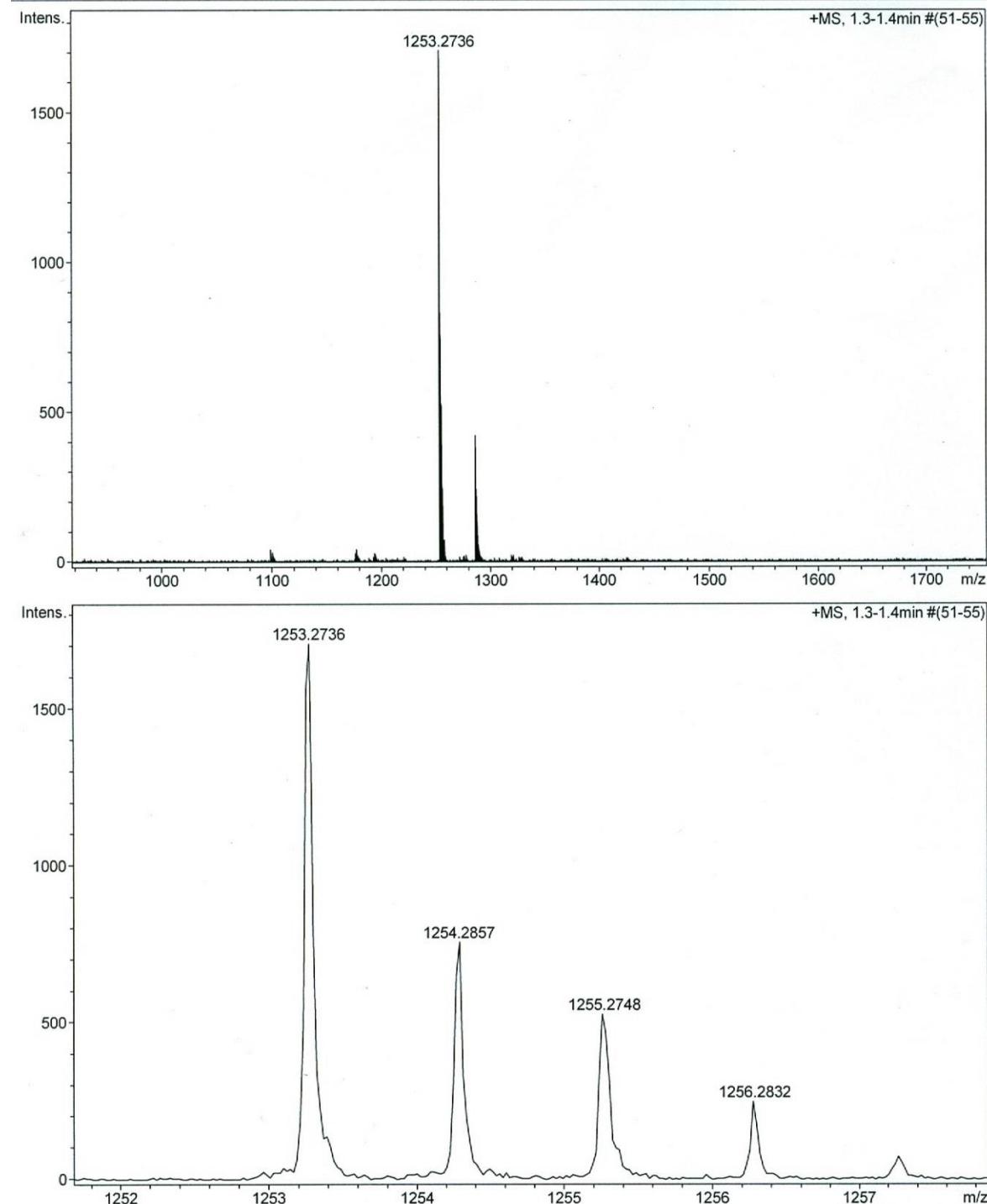


Figure S7: MS (ESI) spectrum of **3**.

Generic Display Report

Analysis Info

Analysis Name D:\Data\Amit\AJ-SST-Neg-after-ppt-21012014.d
 Method oligometodi.m
 Sample Name AJ-SST-Neg-after-ppt-21012014
 Comment

Acquisition Date 1/21/2014 5:19:21 PM

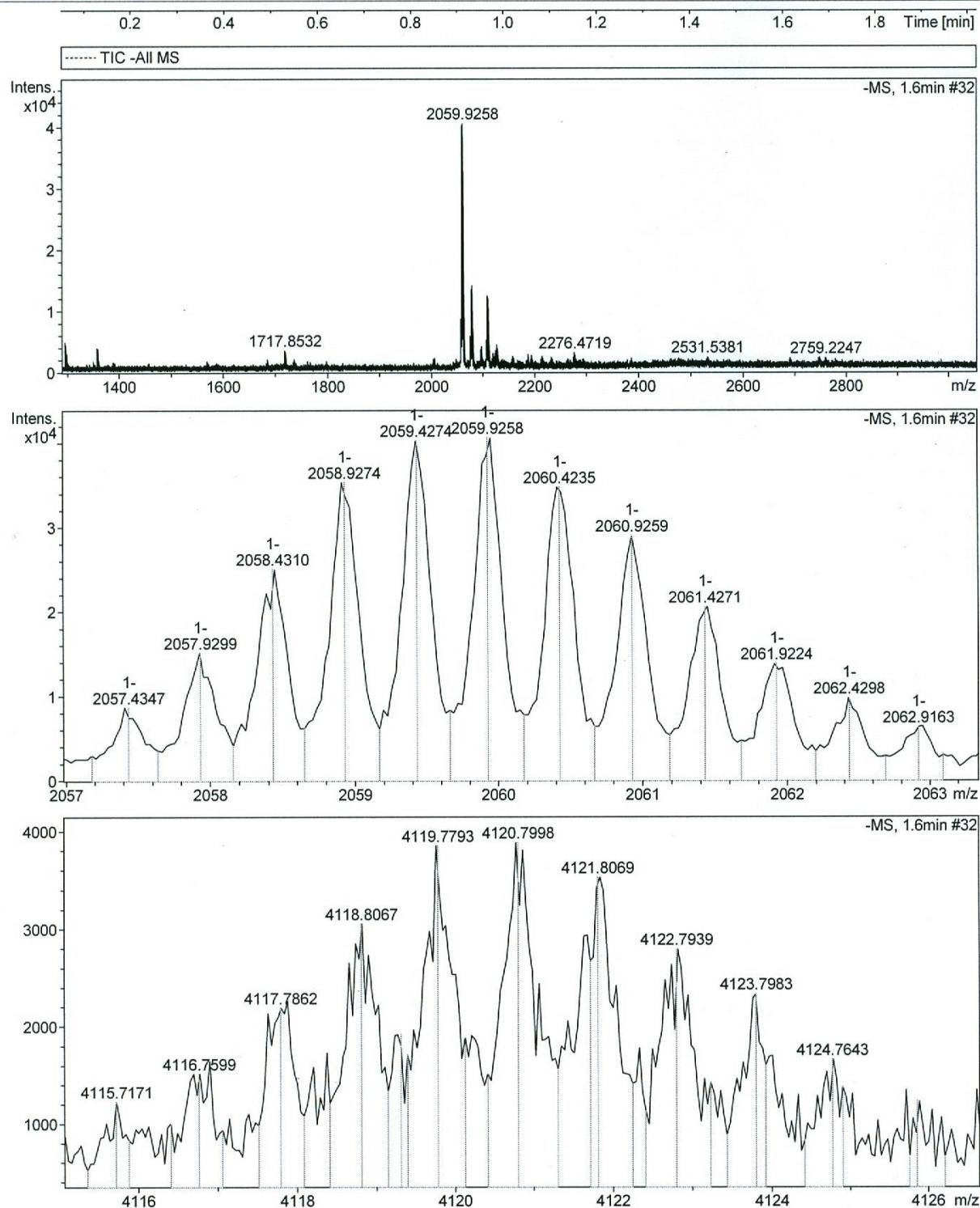
 Operator Bruker07
 Instrument micrOTOF-Q


Figure S8: MS (ESI) spectrum of 7A.

Generic Display Report

Analysis Info

Analysis Name D:\Data\Amit\AJ-SSTOH-HPLC-20.91-neg-28012014.d
 Method oligometodi A.m
 Sample Name AJ-SSTOH-HPLC-20.91-neg-28012014
 Comment

Acquisition Date 1/28/2014 1:41:07 PM

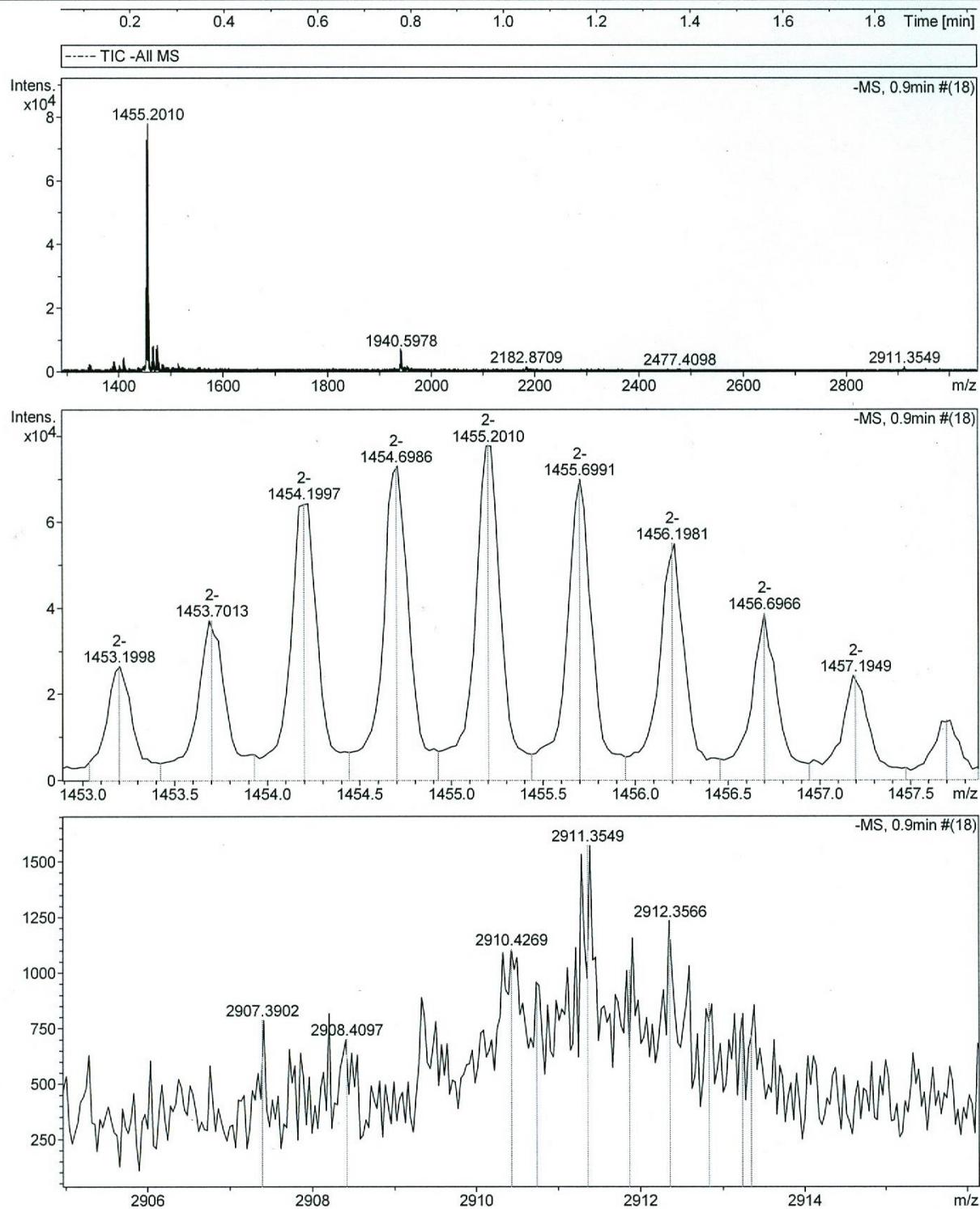
 Operator Bruker07
 Instrument micrOTOF-Q


Figure S9: MS (ESI) spectrum of **7B**.

Generic Display Report

Analysis Info

Analysis Name D:\Data\Amit\AJ-SSTCDMTr-HPLC-31.76-05022014-neg.d
 Method oligometodi.m
 Sample Name AJ-SSTCDMTr-HPLC-31.76-05022014-neg
 Comment

Acquisition Date 2/5/2014 10:49:56 AM
 Operator Bruker07
 Instrument micrOTOF-Q

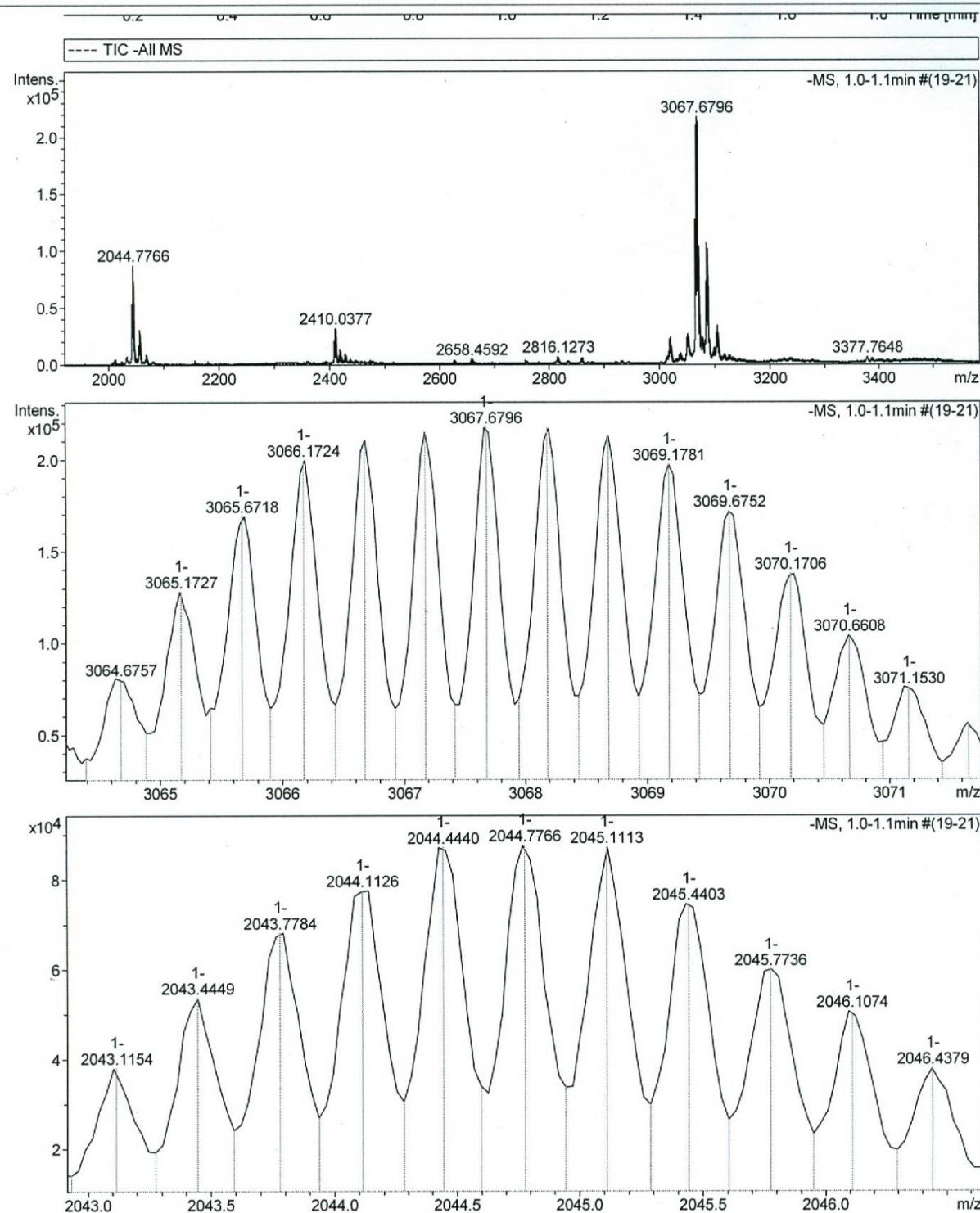


Figure S10: MS (ESI) spectrum of **8A**.

Generic Display Report

Analysis Info

Analysis Name D:\Data\Amit\AJ-SSTCOH-HPLC-29.27min-07022014-neg.d
 Method oligometodi.m
 Sample Name AJ-SSTCOH-HPLC-29.27min-07022014-neg
 Comment

Acquisition Date 2/7/2014 5:36:51 PM

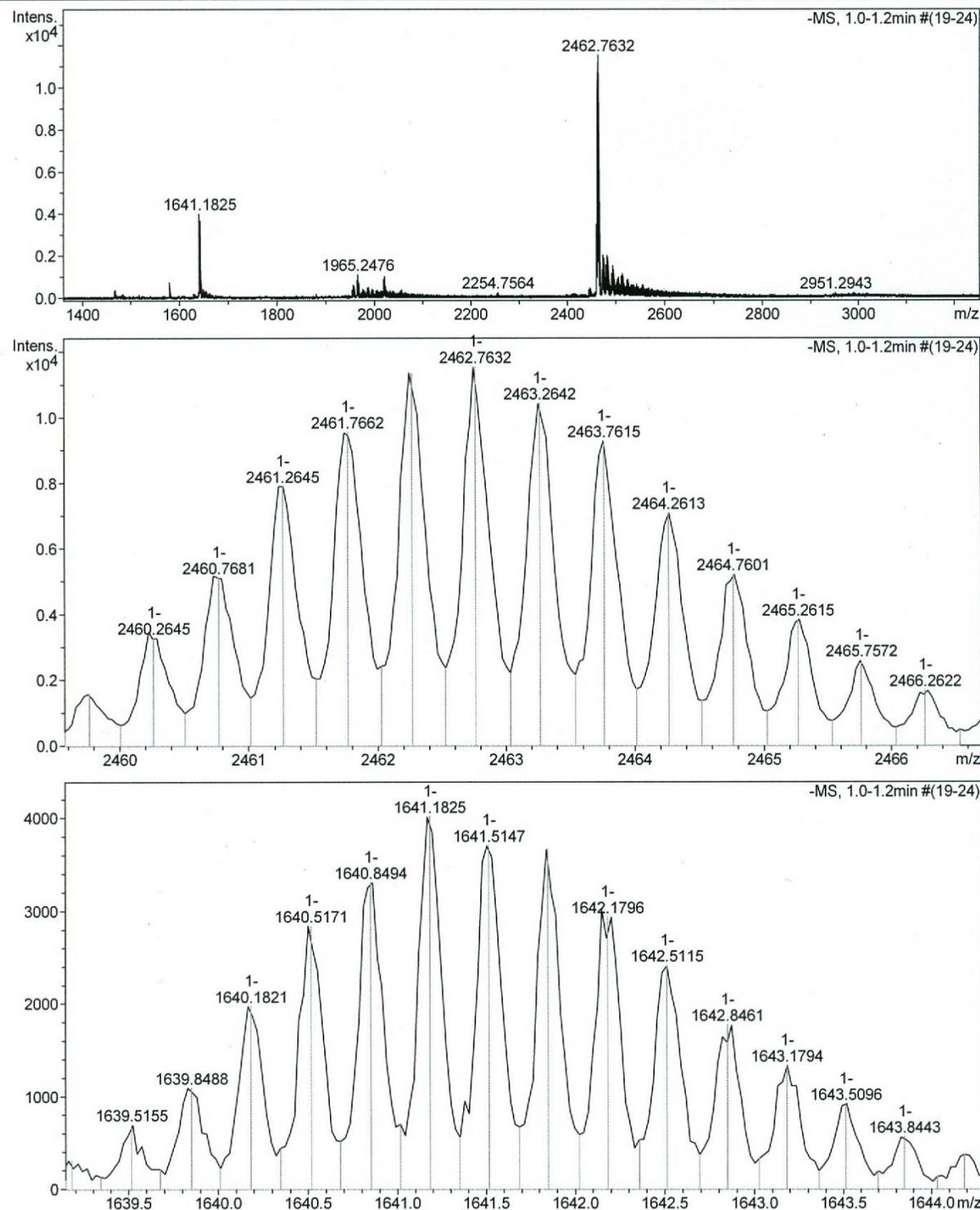
 Operator Bruker07
 Instrument micrOTOF-Q


Figure S11: MS (ESI) spectrum of **8B**.

Generic Display Report

Analysis Info

Analysis Name D:\Data\Amit\AJ-TCG-HPLC-30.1-min-neg-27022014.d
Method oligometodi.m
Sample Name AJ-TCG-HPLC-30.1-min-neg-27022014
Comment

Acquisition Date 2/27/2014 2:06:08 PM

Operator Bruker07
Instrument micrOTOF-Q

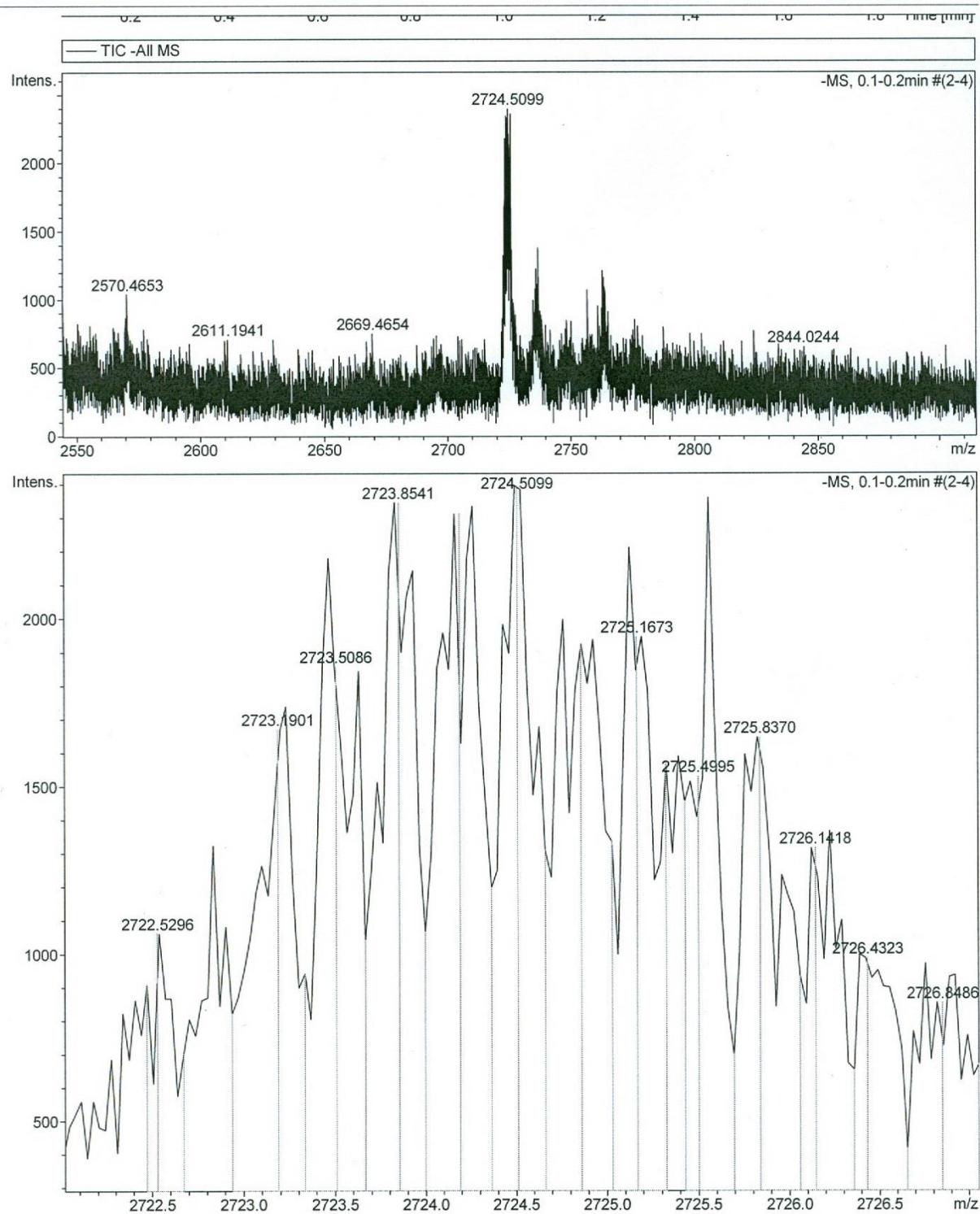


Figure S12: MS (ESI) spectrum of **9**.

Generic Display Report

Analysis Info

Analysis Name D:\Data\Amit\AJ-TCG-HPLC-16.78.12062014-pos.d
Method tune_wide pos 12082011working.m
Sample Name AJ-TCG-HPLC-16.78.12062014-pos
Comment

Acquisition Date 6/12/2014 9:39:46 AM
Operator Bruker07
Instrument micrOTOF-Q

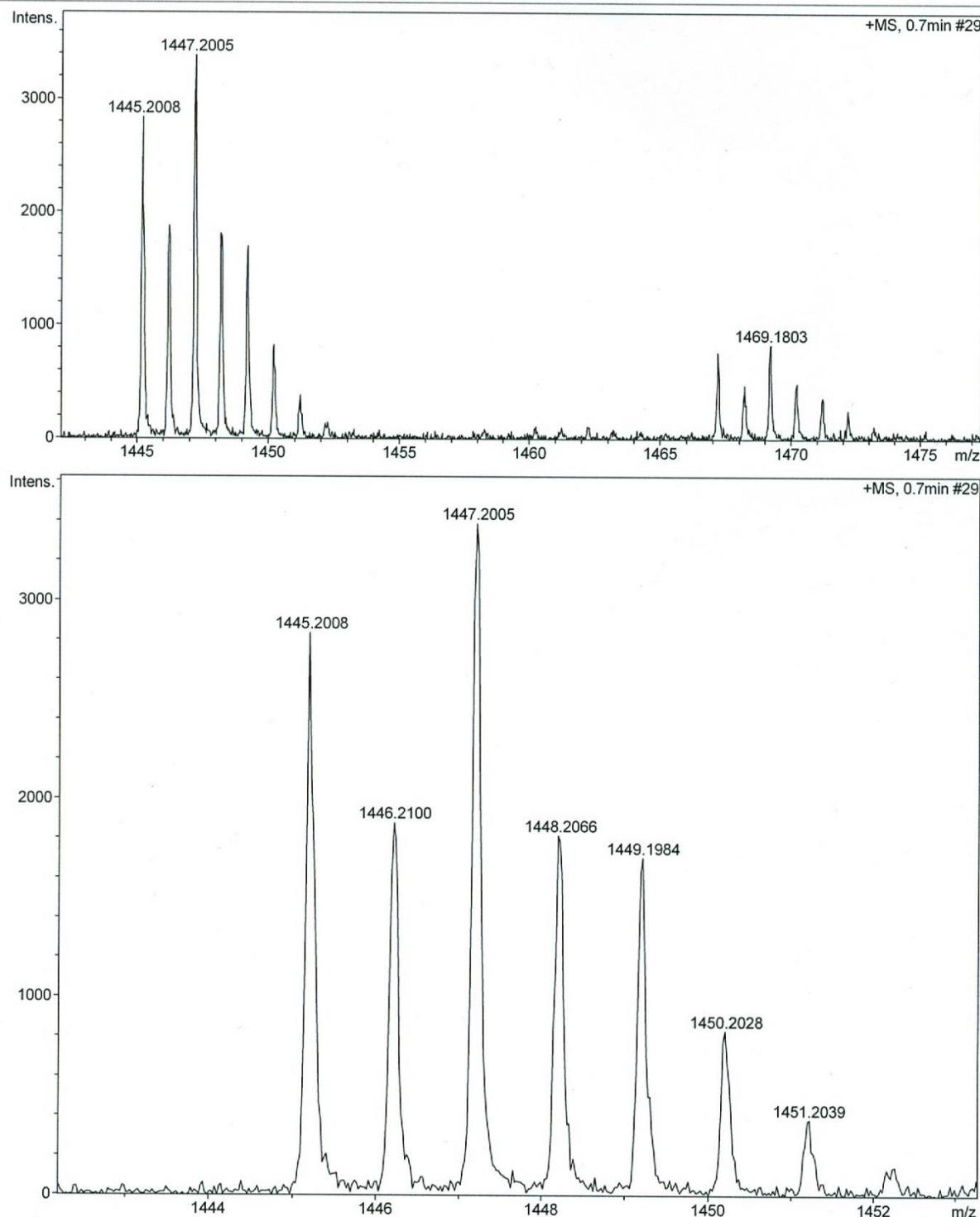


Figure S13: MS (ESI) spectrum of **10**.