

Schiff base functionalized silatrane based receptor as potential Chemo-sensor for detection of Al³⁺ ions

Gurjaspreet Singh^{a*}, Priyanka^a, Akshpreet Singh^b Pinky Satija^a, Sushma^a, Pawan^a, Mohit^a,
Jandeep Singh^c, Jasbhinder Singh^c

^aDepartment of Chemistry, Panjab University, Chandigarh, 160014, India

^bDepartment of Chemistry, GGSDS College, Sector-32C, Chandigarh, India

^cDepartment of Chemistry, Lovely Professional University, Phagwara, Punjab, India

*Corresponding Authors

Prof. Gurjaspreet Singh

Department of Chemistry & Centre of Advanced Studies

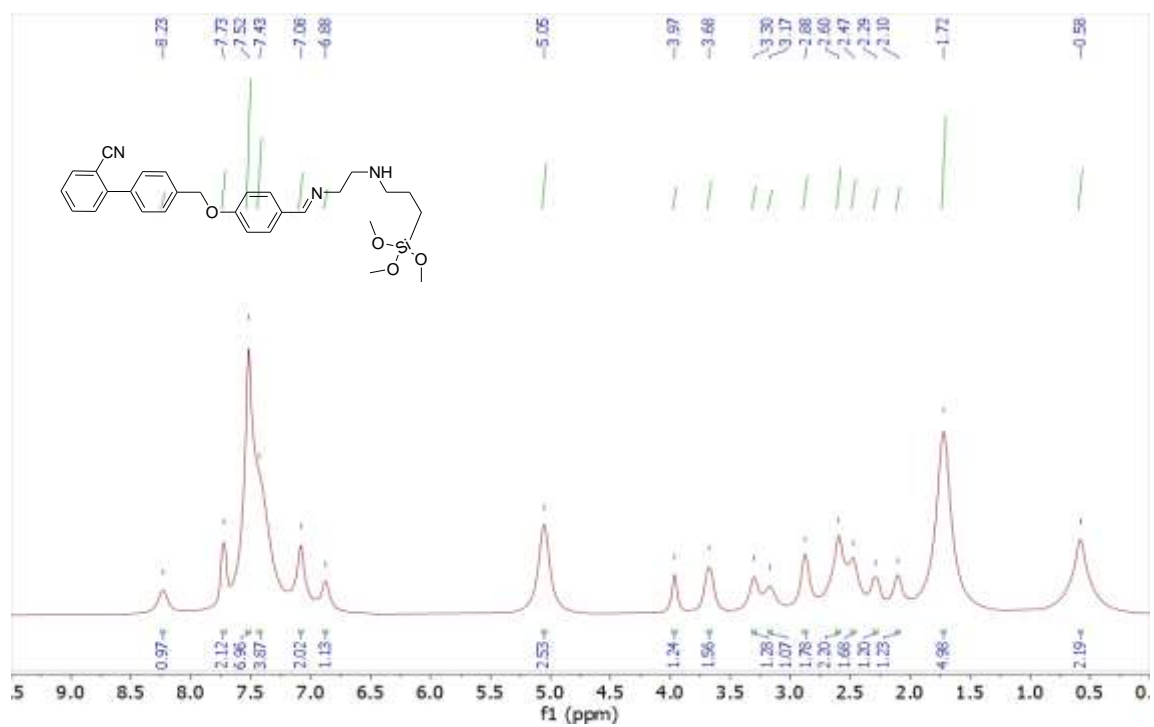
Panjab University, Chandigarh, India

Email: gjsingh@pu.ac.in

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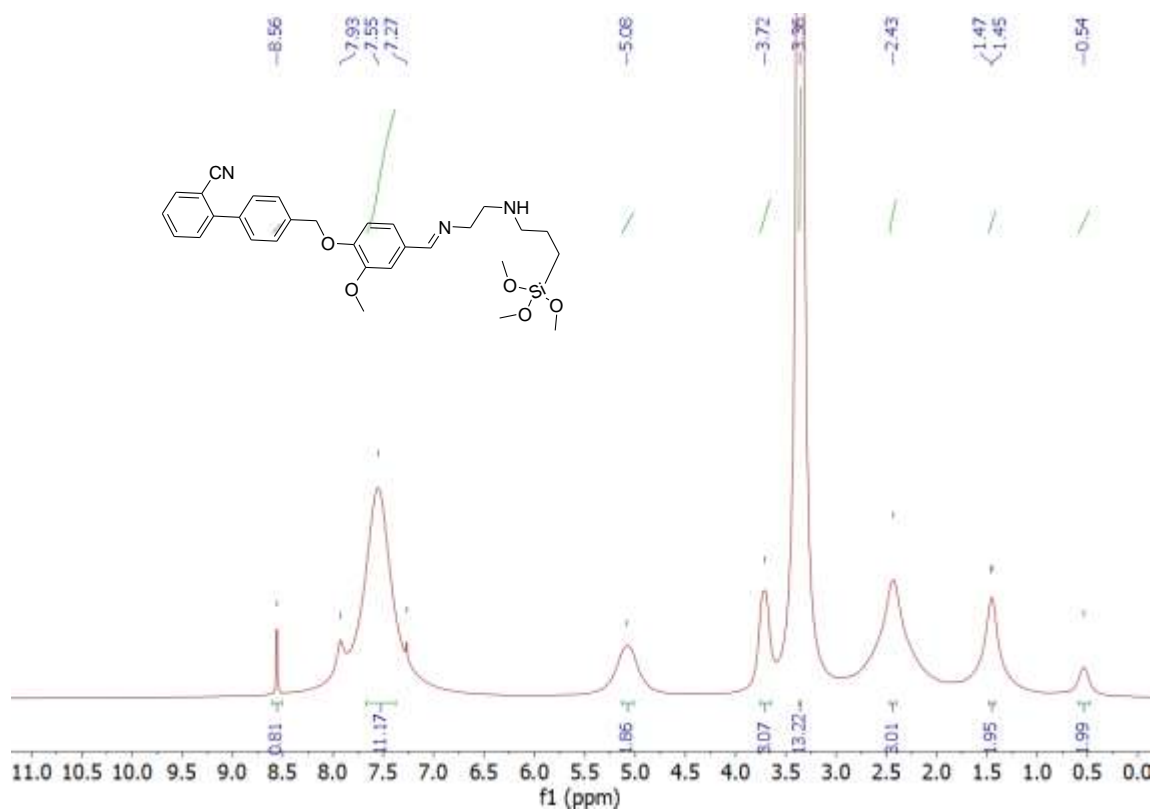
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3a



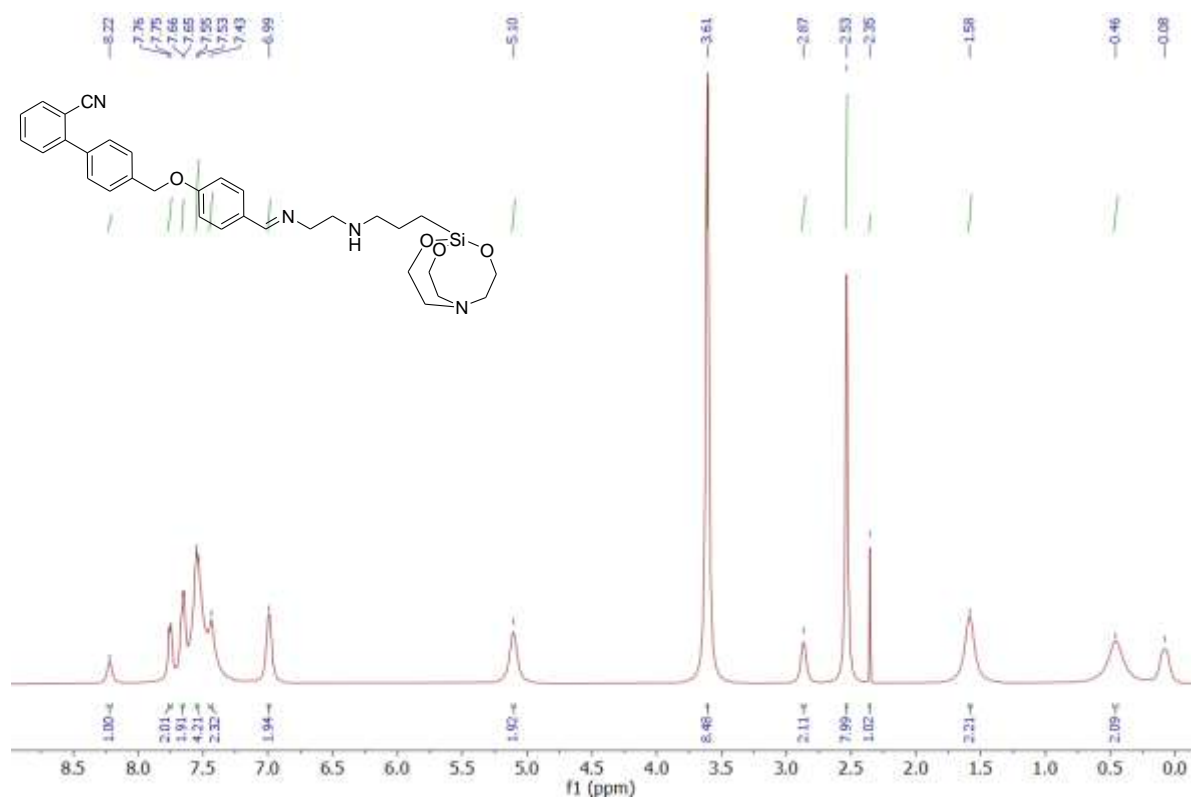
(Fig.S1) ¹H NMR spectrum of compound 3a

3b



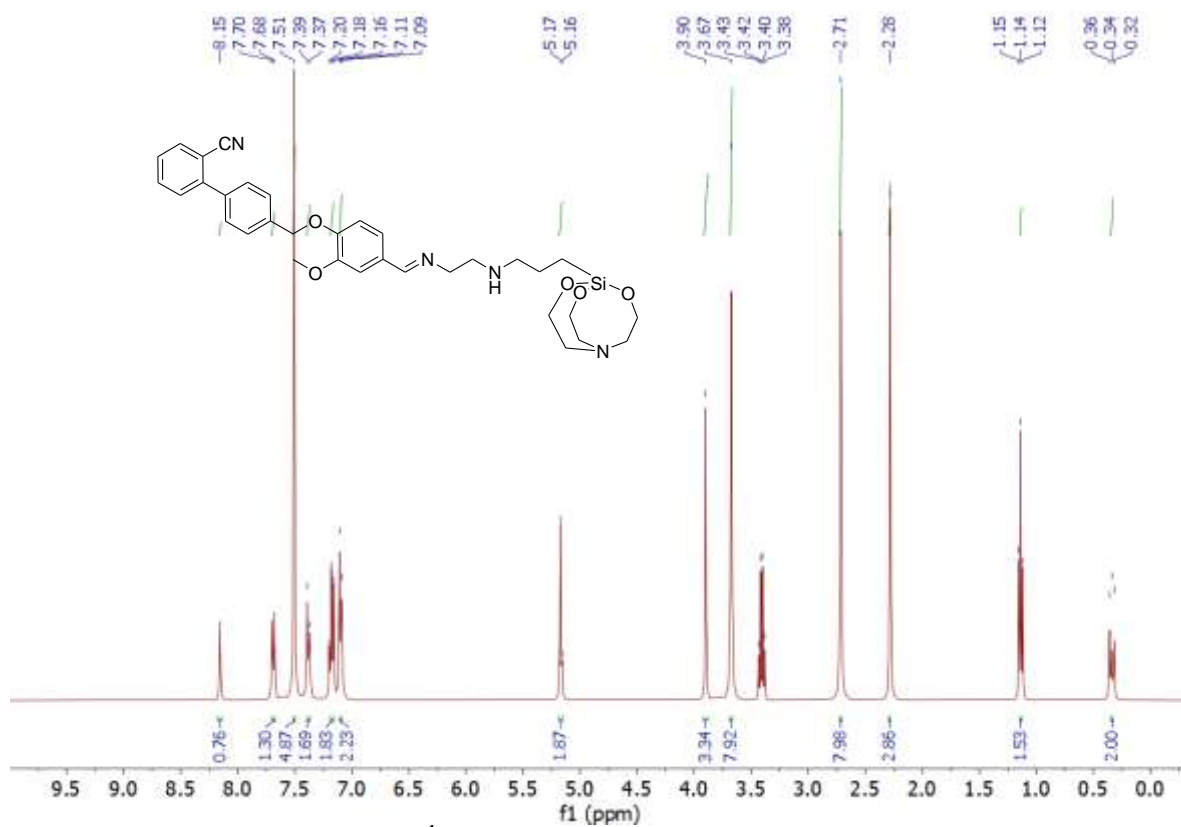
(Fig.S2) ¹H NMR spectrum of compound 3b

4a



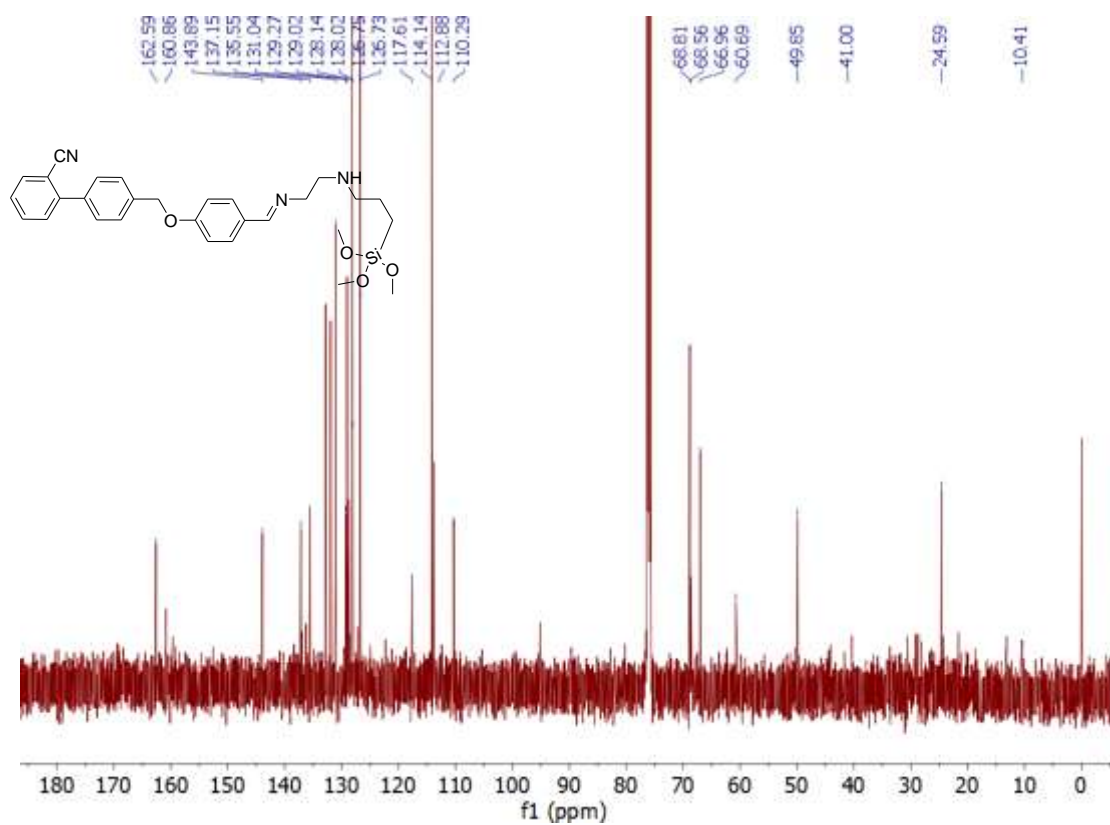
(Fig.S3) ¹H NMR spectrum of compound 4a

4b



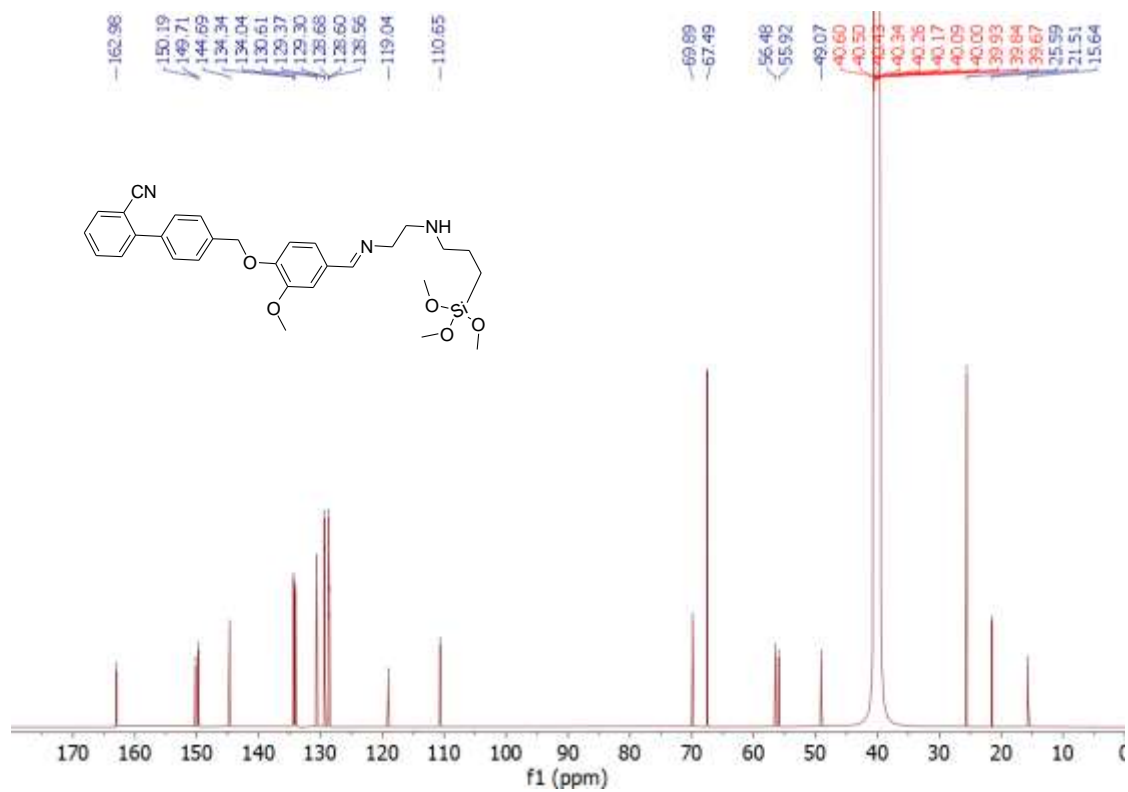
(Fig.S4) ¹H NMR spectrum of compound 4b

3a



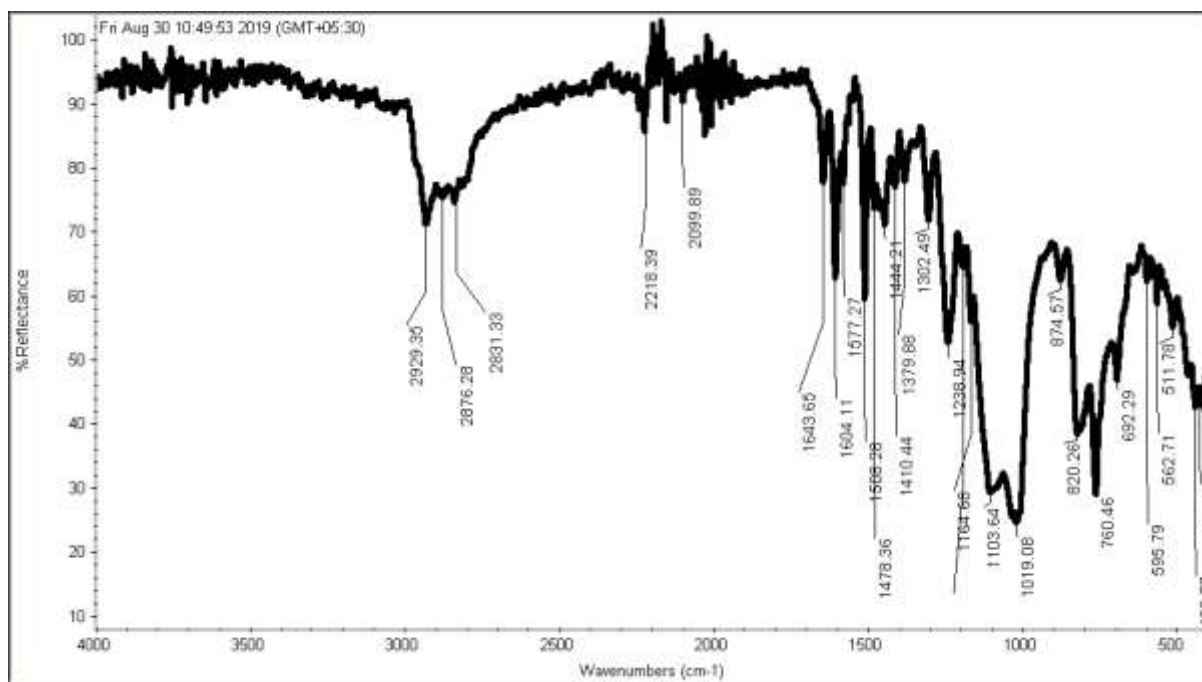
(Fig.S5) ¹³C NMR spectrum of compound 3a

3b



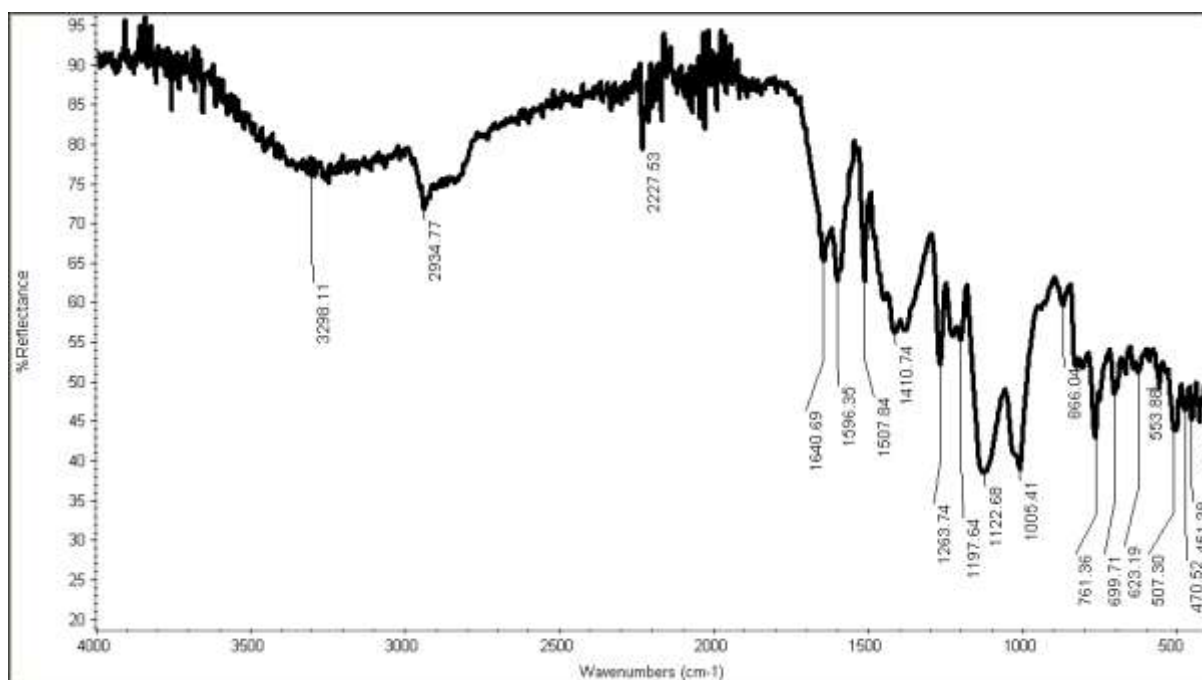
(Fig.S6) ¹³C NMR spectrum of compound 3b

3a



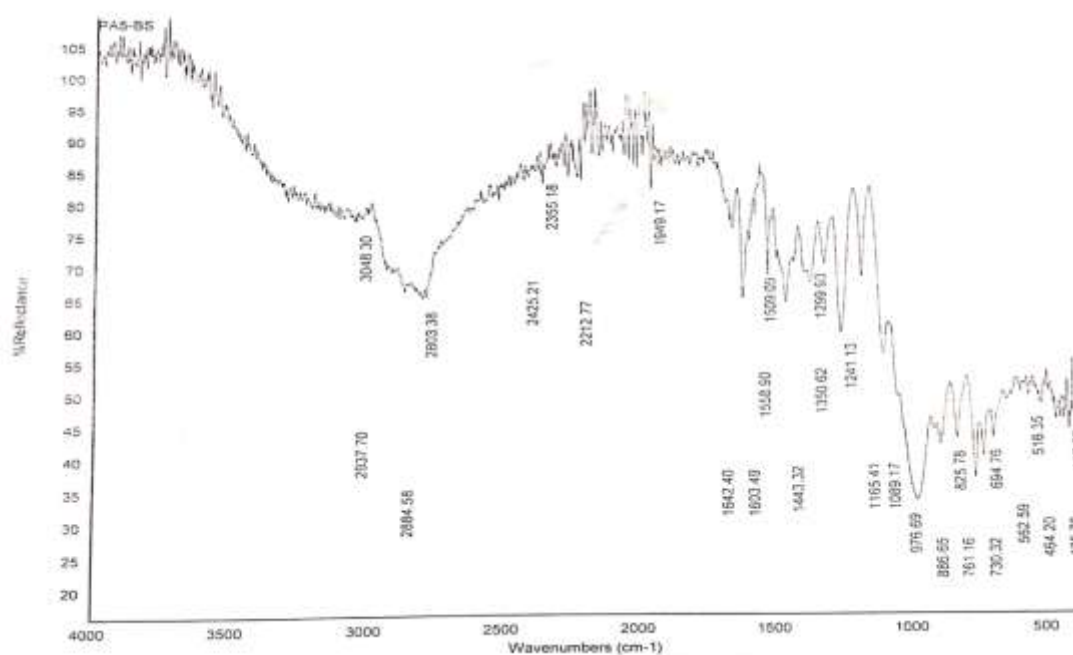
(Fig.S9) IR spectrum of compound 3a

3b



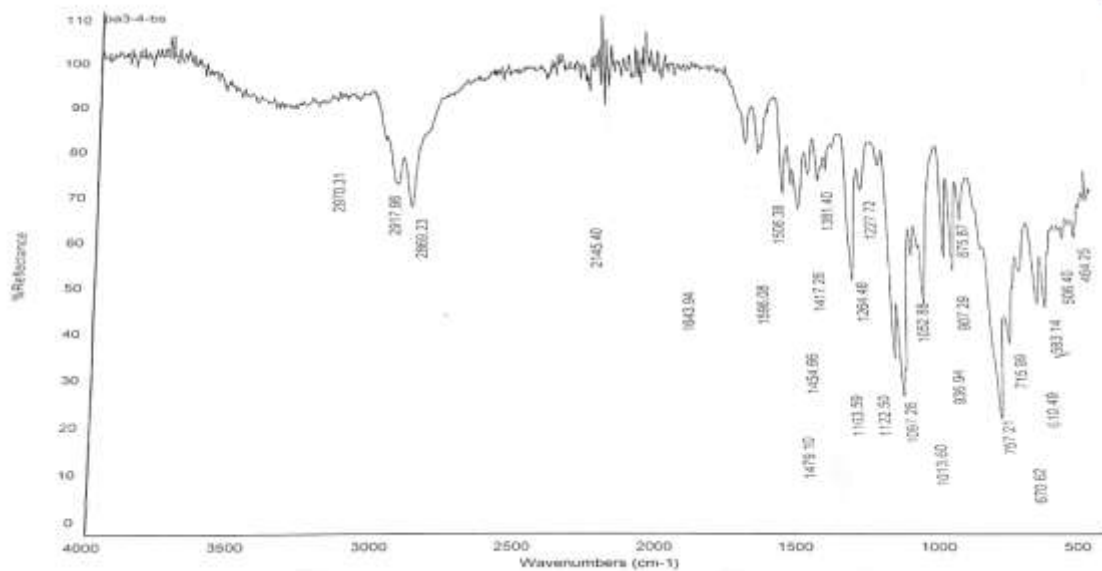
(Fig.S10) IR spectrum of compound 3b

4a



(Fig.S11) IR spectrum of compound 4a

4b

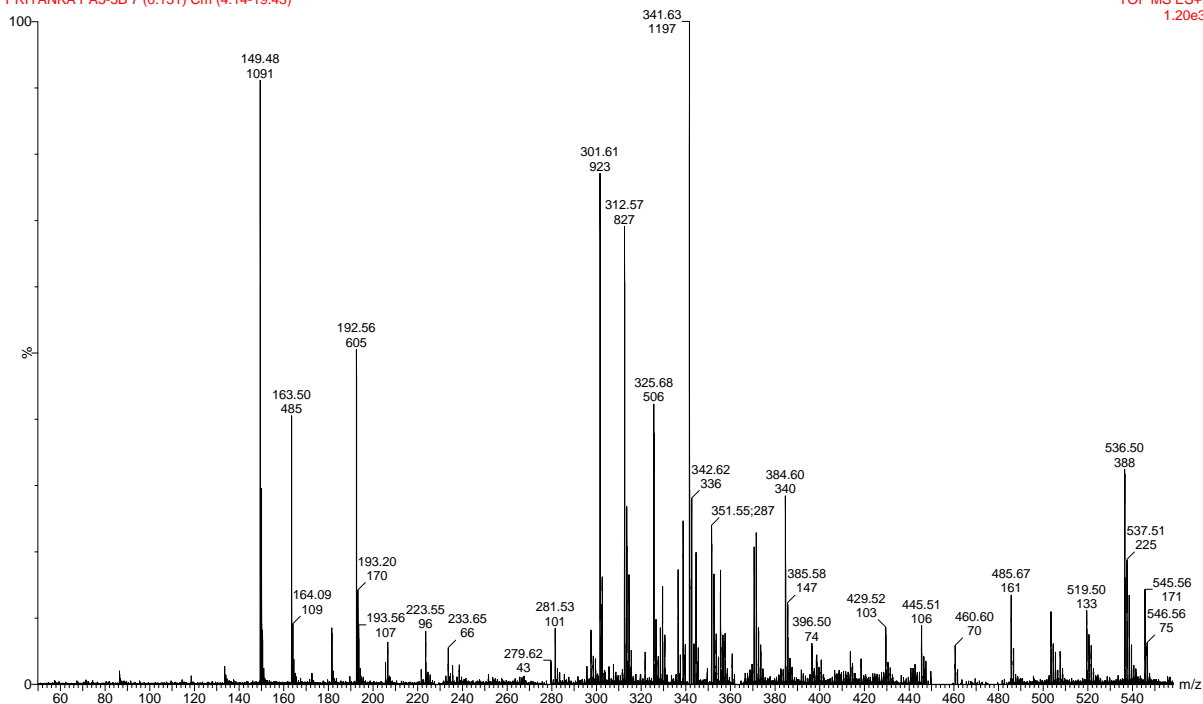


(Fig.S12) IR spectrum of compound 4b

3a

WATERS,Q-TOF MICROMASS (ESI-MS)
PRIYANKA PA3-5B 7 (0.131) Cm (4:14-19:43)

SAIF/CIL,PANJAB UNIVERSITY,CHANDIGARH
TOF MS ES+
1.20e3

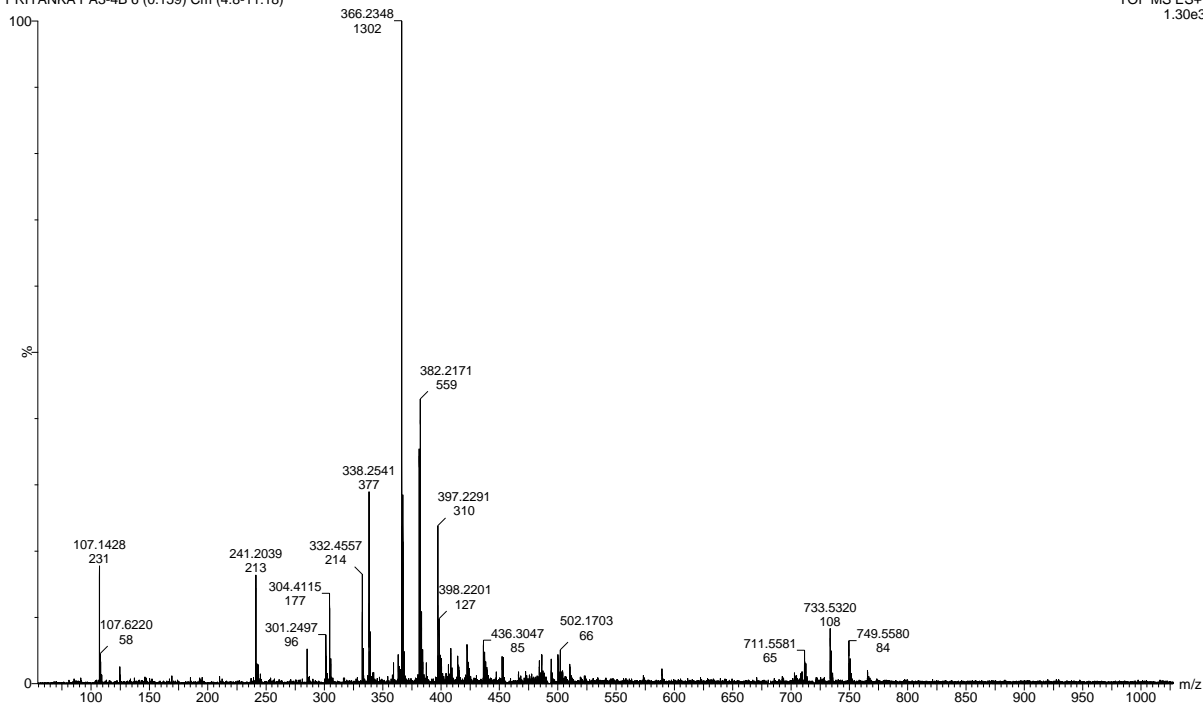


(Fig.S13) Mass spectrum of compound 3a

3b

WATERS,Q-TOF MICROMASS (ESI-MS)
PRIYANKA PA3-4B 6 (0.159) Cm (4:8-11:18)

SAIF/CIL,PANJAB UNIVERSITY,CHANDIGARH
TOF MS ES+
1.30e3

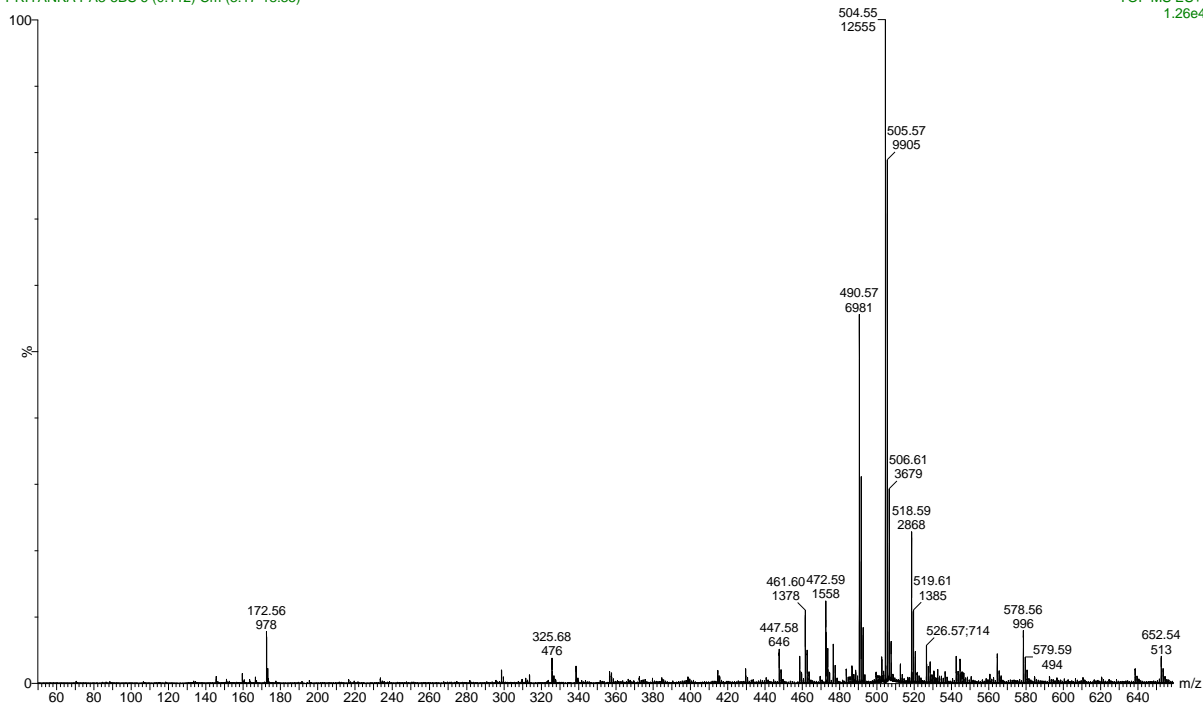


(Fig.S14) Mass spectrum of compound 3b

4a

WATERS,Q-TOF MICROMASS (ESI-MS)
PRIYANKA PA3-5BS 6 (0.112) Cm (3:17-18:35)

SAIF/CIL,PANJAB UNIVERSITY,CHANDIGARH
TOF MS ES+
1.26e4

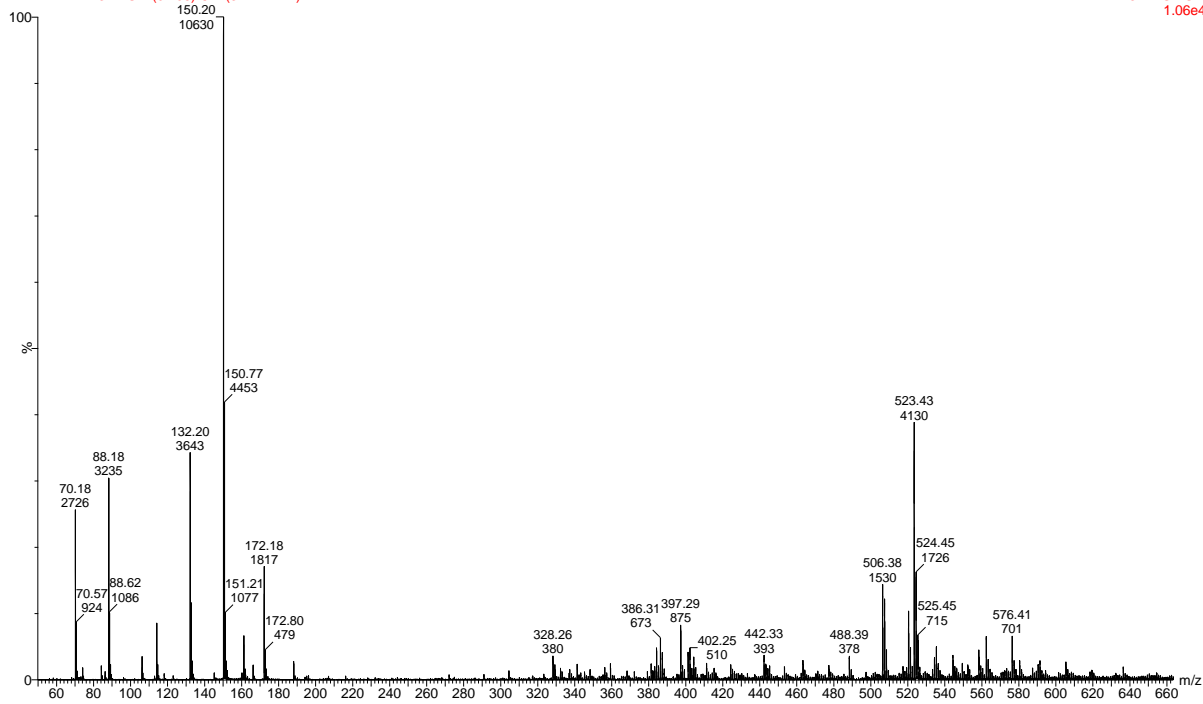


(Fig.S15) Mass spectrum of compound 4a

4b

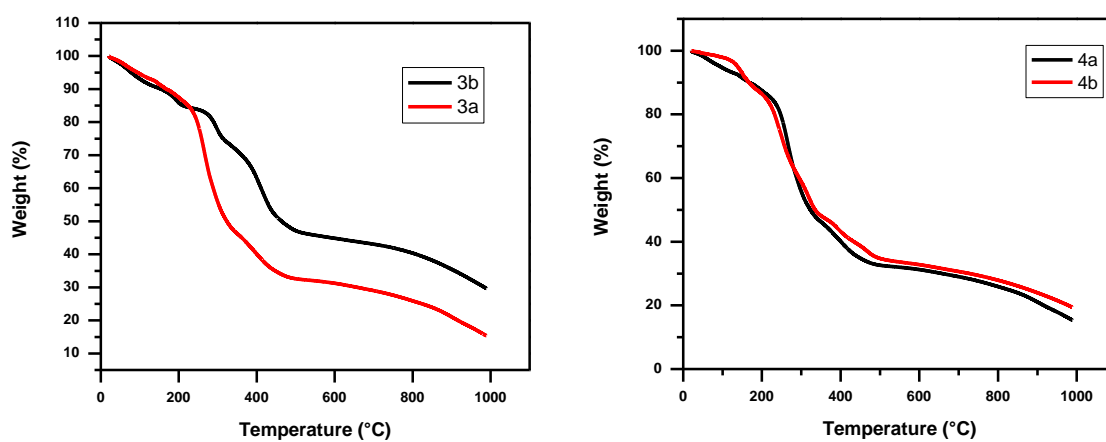
WATERS,Q-TOF MICROMASS (ESI-MS)
PRIYANKA PA3-4BS 4 (0.106) Cm (3:21-27:41)

SAIF/CIL,PANJAB UNIVERSITY,CHANDIGARH
TOF MS ES+
1.06e4



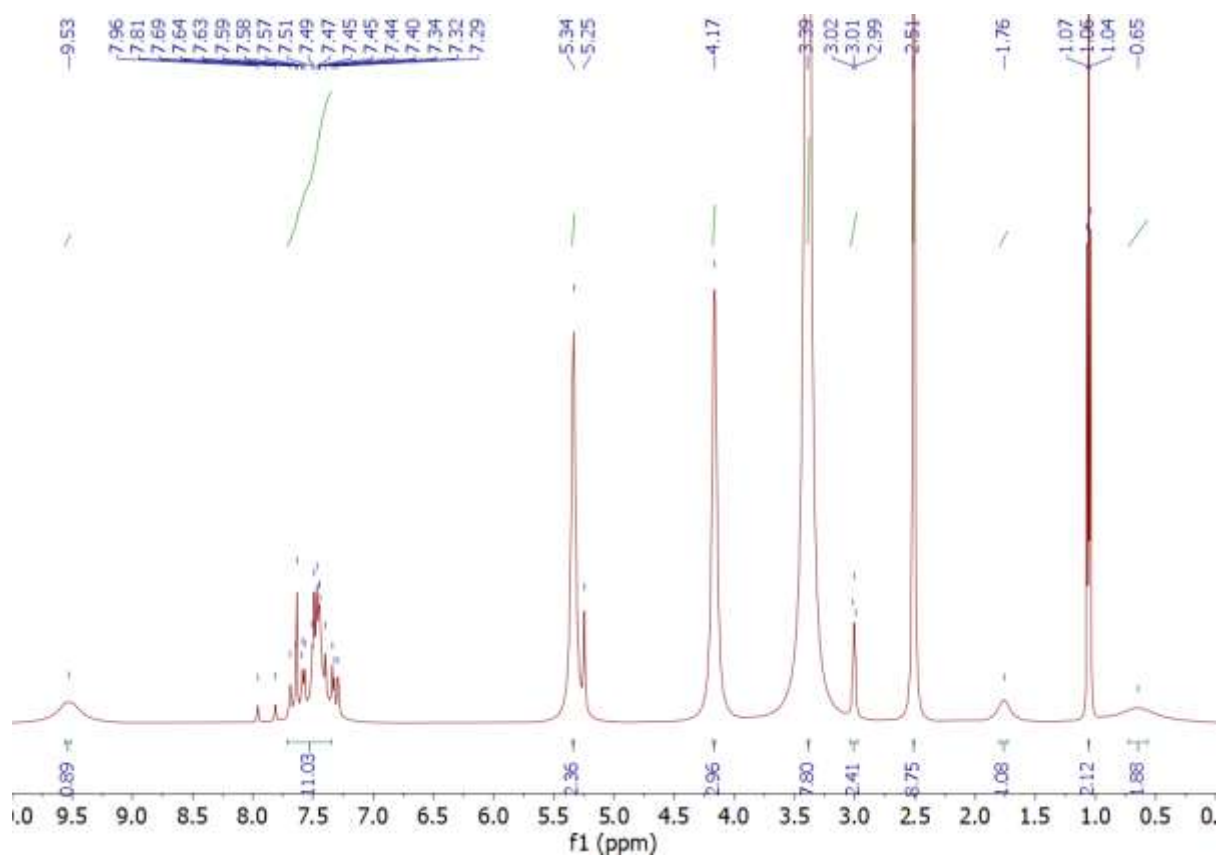
(Fig.S16) Mass spectrum of compound 4b

3(a-b) and 4(a-b)



(Fig.S17) TGA of compounds 3(a-b) and 4(a-b)

4b-Al³⁺ complex



(Fig.S18) ¹H NMR spectrum of compound 4b-Al³⁺ complex

