

Supporting Material

Table S1. Properties of novel compounds calculated with Chemicalize.org program¹. The Lipinski's and Gelovani's parameters.

Compd.	Molecular formula	Number of atoms	MW	log <i>P</i>	H-bond donor	H-bond acceptor	Lipinski score ²	MR ³ (cm ³ /mol)	TPSA ⁴ (Å ²)
4a	C ₂₅ H ₂₇ FN ₄ O ₃	60	450.514	3.22	3	5	4	128.42	92.35
4b	C ₂₅ H ₂₇ FN ₄ O ₃	60	450.514	3.22	3	5	4	128.42	92.35
4c	C ₂₅ H ₂₇ CIN ₄ O ₃	60	466.970	3.68	3	5	4	133.00	92.35
4d	C ₂₅ H ₂₇ CIN ₄ O ₃	60	466.970	3.68	3	5	4	133.00	92.35
4e	C ₂₆ H ₂₇ F ₃ N ₄ O ₃	63	500.522	3.96	3	5	4	134.17	92.35
4f	C ₂₆ H ₂₇ F ₃ N ₄ O ₃	63	500.522	3.96	3	5	4	134.17	92.35
5a	C ₂₅ H ₂₉ FN ₄ O ₃	62	452.530	2.86	3	5	4	127.35	92.35
5b	C ₂₅ H ₂₉ FN ₄ O ₃	62	452.530	2.86	3	5	4	127.35	92.35
5c	C ₂₅ H ₂₉ CIN ₄ O ₃	62	468.980	3.32	3	5	4	131.93	92.35
5d	C ₂₅ H ₂₉ CIN ₄ O ₃	62	468.980	3.32	3	5	4	131.93	92.35
5e	C ₂₆ H ₂₉ F ₃ N ₄ O ₃	65	502.538	3.60	3	5	4	133.10	92.35
5f	C ₂₆ H ₂₉ F ₃ N ₄ O ₃	65	502.538	3.60	3	5	4	133.10	92.35

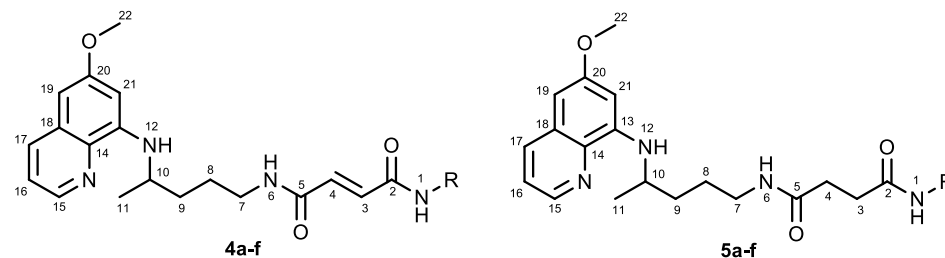
¹Chemicalize, 2017, ChemAxon Ltd. Available from: <http://www.chemicalize.org>; ² Out of four; ³MR – molar refractivity; ⁴TPSA – topological polar surface area.

Table S2. Analytical and spectral data of compounds **4a-f** and **5a-f**.

Compd.	Yield (%)	m.p. (°C)	IR (ATR): $\nu_{\max}$ (cm ⁻¹)	MS (<i>m/z</i>)	Molecular formula (<i>M_r</i>)	CHN analysis calcd./found (%)		
4a	34	203–204	3388, 3319, 3269, 3080, 2961, 2935, 2866, 1630, 1554, 1520, 1452, 1387, 1334, 1201, 1158, 782, 680	451.1	C ₂₅ H ₂₇ FN ₄ O ₃	66.65	6.04	12.44
				(<i>M</i> +1)	(450.514)	66.32	6.30	12.49
4b	58	226–227	3386, 3294, 3072, 2963, 2928, 2863, 1635, 1548, 1513, 1452, 1391, 1330, 1212, 1160, 1051, 973, 829, 673	451.1	C ₂₅ H ₂₇ FN ₄ O ₃	66.65	6.04	12.44
				(<i>M</i> +1)	(450.514)	66.47	6.38	12.35
4c	42	187–188	3381, 3298, 3068, 2959, 2928, 2863, 1635, 1591, 1521, 1465, 1419, 1386, 1331, 1210, 1163, 976, 821, 783, 670	467.0	C ₂₅ H ₂₇ CIN ₄ O ₃	64.30	5.83	12.00
				(<i>M</i> +1)	(466.970)	64.21	6.05	11.78

4d	49	223–226	3381, 3289, 3071, 2959, 2931, 2864, 1640, 1526, 1452, 1388, 1331, 1210,	467.0	C ₂₅ H ₂₇ ClN ₄ O ₃	64.30	5.83	12.00
			1163, 1094, 1049, 973, 822, 787, 686, 631, 507	(M+1)	(466.970)	64.21	5.56	11.83
4e	31	149–150	3399, 3357, 3282, 3094, 2960, 2935, 2867, 1651, 1621, 1563, 1526, 1452,	501.1	C ₂₆ H ₂₇ F ₃ N ₄ O ₃	62.39	5.44	11.19
			1388, 1331, 1168, 1122, 973, 893, 788, 694	(M+1)	(500.522)	62.25	5.76	11.08
4f	34	189–191	3387, 3309, 3071, 2963, 2932, 1636, 1527, 1457, 1417, 1390, 1328, 1213,	501.1	C ₂₆ H ₂₇ F ₃ N ₄ O ₃	62.39	5.44	11.19
			1166, 1122, 1065, 970, 832, 681	(M+1)	(500.522)	62.17	5.61	11.40
5a	63	140–142	3391, 3283, 3145, 3080, 2959, 2926, 1744, 1646, 1615, 1555, 1507, 1387,	453.3	C ₂₅ H ₂₉ FN ₄ O ₃	66.35	6.46	12.38
			1224, 1202, 1167, 1157, 838, 815, 786, 681	(M+1)	(452.530)	66.25	6.50	12.20
5b	80	118–120	3391, 3283, 3145, 3080, 2959, 2926, 1744, 1646, 1615, 1555, 1507, 1387,	453.4	C ₂₅ H ₂₉ FN ₄ O ₃	66.35	6.46	12.38
			1224, 1202, 1167, 1157, 838, 815, 786, 681	(M+1)	(452.530)	66.53	6.29	12.55
5c	49	156–158	3390, 3287, 3242, 3180, 3102, 3074, 2962, 2922, 2856, 1738, 1650, 1612,	469.2	C ₂₅ H ₂₉ ClN ₄ O ₃	64.03	6.23	11.95
			1591, 1572, 1539, 1516, 1422, 1388, 1202, 1066, 816, 787, 698, 682	(M+1)	(468.980)	63.91	6.33	11.70
5d	60	152–153	3390, 3287, 3242, 3180, 3102, 3074, 2962, 2922, 2856, 1738, 1650, 1612,	469.3	C ₂₅ H ₂₉ ClN ₄ O ₃	64.03	6.23	11.95
			1591, 1572, 1539, 1516, 1422, 1388, 1202, 1066, 816, 787, 698, 682	(M+1)	(468.980)	64.35	6.57	12.13
5e	90	146–149	3394, 3302, 3263, 3216, 3164, 3097, 2963, 2928, 2859, 1651, 1617, 1562,	503.3	C ₂₆ H ₂₉ F ₃ N ₄ O ₃	62.14	5.82	11.15
			1518, 1450, 1389, 1331, 1265, 1173, 1127, 1064, 894, 816	(M+1)	(502.538)	62.25	5.99	11.08
5f	50	163–165	3387, 3287, 3256, 3198, 3123, 3071, 2963, 2925, 2859, 1652, 1614, 1547,	503.3	C ₂₆ H ₂₉ F ₃ N ₄ O ₃	62.14	5.82	11.15
			1515, 1452, 1419, 1389, 1327, 1264, 1169, 1124, 1064, 846, 784	(M+1)	(502.538)	62.39	5.76	11.41

Table S3. ^1H and ^{13}C NMR spectra of amides **4a-f** and **5a-f**



Compd.	R	^1H NMR (DMSO- d_6 , δ ppm, J/Hz)	^{13}C NMR (DMSO- d_6 , δ ppm, J/Hz)
4a		10.63 (s, 1H, 1), 8.55-8.53 (dd, 1H, 15, J = 1.6, 4.2), 8.52 (t, 1H, 6, J = 5.4), 8.09-8.06 (dd, 1H, 17, J = 1.5, 8.3), 7.69 (d, 2H, 6', J = 11.7), 7.45-7.41 (m, 1H, 16), 7.39-7.36 (m, 2H, 2', 4'), 7.06-7.96 (m, 2H, 3, 4), 6.96-6.92 (m, 1H, 5'), 6.47 (d, 1H, 21, J = 2.4), 6.28 (d, 1H, 19, J = 2.4), 6.15 (d, 1H, 12, J = 8.8), 3.82 (s, 3H, 22), 3.70-3.61 (m, 1H, 10), 3.24-3.18 (m, 2H, 7), 1.74-1.64, 1.63-1.52 (2m, 4H, 8, 9), 1.22 (d, 3H, 11, J = 6.3)	163.25 (5), 162.62 (2), 162.09 (3', J = 242.0), 159.00 (20), 144.63 (13), 144.23 (15), 140.50 (1', d, J = 11.5), 134.79 (17), 134.52 (14), 134.40 (3), 132.28 (4), 130.50 (5', d, J = 9.5), 129.57 (18), 122.09 (16), 115.14 (6'), 110.28 (2', d, J = 18.8), 106.13 (4', d, J = 27.2), 96.14 (21), 91.62 (19), 54.96 (22), 46.97 (10), 38.95 (7), 33.45 (9), 25.77 (8), 20.21 (11)
4b		10.49 (s, 1H, 1), 8.55-8.53 (dd, 1H, 15, J = 1.6, 4.2), 8.52 (t, 1H, 6, J = 5.4), 8.09-8.06 (dd, 1H, 17, J = 1.5, 8.3), 7.72-7.68 (dd, 2H, 2', 6', J = 5.0, J = 8.9), 7.45-7.41 (m, 1H, 16), 7.18 (t, 2H, 3', 5', J = 8.8), 7.05-6.93 (m, 2H, 3, 4), 6.47 (d, 1H, 21, J = 2.1), 6.28 (d, 1H, 19, J = 2.1), 6.15 (d, 1H, 12, J = 8.8), 3.82 (s, 3H, 22), 3.69-3.61 (m, 1H, 10), 3.24-3.18 (m, 2H, 7), 1.74-1.64, 1.63-1.52 (2m, 4H, 8, 9), 1.22 (d, 3H, 11, J = 6.3)	163.34 (5), 162.21 (2), 159.00 (20), 158.26 (4', d, J = 239.99), 144.63 (13), 144.23 (15), 135.22 (1'), 134.79 (17), 134.53 (14), 133.98 (3), 132.52 (4), 129.58 (18), 122.09 (16), 121.05 (2', 6', d, J = 7.6), 115.44 (3', 5', d, J = 21.89), 96.14 (21), 91.62 (19), 54.96 (22), 46.97 (10), 38.95 (7), 33.45 (9), 25.79 (8), 20.21 (11)
4c		10.59 (s, 1H, 1), 8.54-8.53 (dd, 1H, 15, J = 1.5, 4.1), 8.50 (t, 1H, 6, J = 5.5), 8.08-8.06 (dd, 1H, 17, J = 1.4, 8.2), 7.90 (s, 1H, 2'), 7.51 (d, 1H, 6', J = 8.1), 7.43-7.41 (m, 1H, 16), 7.37 (t, 1H, 5', J = 8.1), 7.16-7.14 (dd, 1H, 4', J = 1.2, J = 8.0), 7.00 (q, 2H, 3, 4, J = 15.1), 6.47 (d, 1H, 21, J = 2.4), 6.28 (d, 1H, 19, J = 2.3), 6.14 (d, 1H, 12, J = 8.8), 3.82 (s, 3H, 22), 3.67-3.63 (m, 1H, 10), 3.23-3.20 (m, 2H, 7), 1.73-1.67, 1.63-1.53 (2m, 4H, 8, 9), 1.22 (d, 3H, 11, J = 6.3)	163.21 (5), 162.60 (2), 158.97 (20), 144.60 (13), 144.19 (15), 140.19 (1'), 134.74 (17), 134.50 (14), 134.41 (3), 133.10 (3'), 132.19 (4), 130.48 (5'), 129.54 (18), 123.45 (6'), 122.03 (16), 118.74 (2'), 117.72 (4'), 96.11 (21), 91.63 (19), 54.93 (22), 46.98 (10), 39.23 (7), 33.44 (9), 25.72 (8), 20.18 (11)
4d		10.56 (s, 1H, 1), 8.55-8.53 (dd, 1H, 15, J = 1.7, 4.2), 8.50 (t, 1H, 6, J = 5.6), 8.09-8.06 (dd, 1H, 17, J = 1.6, 8.3), 7.72-7.68 (m, 2H, 2', 6'), 7.45-7.37 (m, 3H, 16, 3', 5'), 7.06-6.94 (m, 2H, 3, 4), 6.47 (d, 1H, 21, J = 2.5), 6.27 (d, 1H, 19, J = 2.4), 6.14 (d, 1H, 12, J = 8.8), 3.82 (s, 3H, 22), 3.69-3.60 (m, 1H, 10), 3.24-3.18 (m, 2H, 7), 1.74-1.64, 1.63-1.51 (2m, 4H, 8, 9), 1.22 (d, 3H, 11, J = 6.3)	163.29 (5), 162.43 (2), 159.00 (20), 144.63 (13), 144.23 (15), 137.76 (1'), 134.79 (17), 134.52 (14), 134.21 (3), 132.38 (4), 129.57 (18), 128.75 (3', 5'), 127.36 (4'), 122.09 (16), 120.84 (2', 6'), 96.14 (21), 91.61 (19), 54.96 (22), 46.97 (10), 38.82 (7), 33.44 (9), 25.77 (8), 20.21 (11)

4e		10.75 (s, 1H, 1), 8.55-8.52 (m, 2H, 6, 15), 8.18 (s, 1H, 2'), 8.08-8.06 (dd, 1H, 17, $J = 1.1, 8.2$), 7.83 (d, 1H, 6'), 7.59 (t, 1H, 5', $J = 7.9$), 7.45-7.42 (m, 2H, 16, 4'), 7.00-6.98 (q, 2H, 3, 4, $J = 15.1$), 6.47 (d, 1H, 21, $J = 2.4$), 6.28 (d, 1H, 19, $J = 2.0$), 6.15 (d, 1H, 12, $J = 8.7$), 3.82 (s, 3H, 22), 3.67-3.63 (m, 1H, 10), 3.23-3.20 (m, 2H, 7), 1.73-1.67, 1.63-1.53 (2m, 4H, 8, 9), 1.22 (d, 3H, 11, $J = 6.3$)	163.19 (5), 162.81 (2), 158.99 (20), 144.62 (13), 144.21 (15), 139.54 (1'), 134.77 (17), 134.55 (14), 134.52 (3), 132.15 (4), 130.09 (5'), 129.56 (18), 129.82-129.19 (3', q, $J = 31.7$), 126.73-121.32 (7', q, $J = 273.1$), 122.88 (6'), 122.07 (16), 120.09 (4'), 115.33 (2'), 96.13 (21), 91.62 (19), 54.95 (22), 46.19 (10), 39.23 (7), 33.45 (9), 25.76 (8), 20.20 (11)
4f		10.75 (s, 1H, 1), 8.54-8.53 (m, 1H, 15), 8.51 (t, 1H, 6, $J = 5.3$), 8.07 (d, 1H, 17, $J = 8.2$), 7.88 (d, 2H, 3', 5', $J = 8.5$), 7.71 (d, 2H, 2', 6', $J = 8.5$), 7.43-7.41 (m, 1H, 16), 7.07-6.99 (q, 2H, 3, 4, $J = 15.1$), 6.47 (d, 1H, 21, $J = 2.2$), 6.28 (d, 1H, 19, $J = 2.2$), 6.14 (d, 1H, 12, $J = 8.7$), 3.82 (s, 3H, 22), 3.67-3.63 (m, 1H, 10), 3.23-3.20 (dd, 2H, 7, $J = 6.1, 12.1$), 2.59 (t, 2H, 3, $J = 7.0$), 1.73-1.67, 1.61-1.53 (2m, 4H, 8, 9), 1.22 (d, 3H, 11, $J = 6.3$)	161.17 (5), 162.83 (2), 158.97 (20), 144.60 (13), 144.17 (15), 142.28 (1'), 134.72 (17), 134.66 (3), 134.50 (14), 132.11 (4), 129.53 (18), 126.95-121.55 (7', q, $J = 271.6$), 126.11-126.04 (3', 5', q, $J = 3.0$), 124.02-123.39 (4', q, $J = 31.7$), 122.02 (16), 119.26 (2', 6'), 96.10 (21), 91.63 (19), 54.92 (22), 46.96 (10), 38.80 (7), 33.43 (9), 25.70 (8), 20.17 (11)
5a		10.13 (s, 1H, 1), 8.54-8.53 (dd, 1H, 15, $J = 1.7, 4.2$), 8.08-8.06 (dd, 1H, 17, $J = 1.6, 8.3$), 7.86 (t, 1H, 6, $J = 5.6$), 7.60-7.58 (m, 1H, 6'), 7.43-7.41 (m, 1H, 16), 7.31-7.27 (m, 2H, 2', 5'), 6.85-6.81 (m, 1H, 4'), 6.47 (d, 1H, 21, $J = 2.5$), 6.26 (d, 1H, 19, $J = 2.5$), 6.11 (d, 1H, 12, $J = 8.7$), 3.82 (s, 3H, 22), 3.64-3.59 (m, 1H, 10), 3.10-3.03 (m, 2H, 7), 2.55 (t, 2H, 3, $J = 7.2$), 2.37 (t, 2H, 4, $J = 7.2$), 1.67-1.63, 1.55-1.45 (2m, 4H, 8, 9), 1.19 (d, 3H, 11, $J = 6.3$)	170.86 (5, 2), 162.10 (3', d, $J = 240.06$), 158.98 (20), 144.61 (13), 144.19 (15), 141.03 (1', d, $J = 13.1$), 134.75 (17), 134.51 (14), 130.19 (5', d, $J = 9.0$), 129.55 (18), 122.05 (16), 114.55 (6'), 109.22 (2', d, $J = 20.1$), 105.61 (4', d, $J = 23.5$), 96.07 (21), 91.59 (19), 54.94 (22), 46.99 (10), 38.46 (7), 33.38 (9), 31.75 (3), 30.16 (4), 25.95 (8), 20.15 (11)
5b		9.98 (s, 1H, 1), 8.55-8.53 (dd, 1H, 15, $J = 1.6, 4.2$), 8.09-8.06 (dd, 1H, 17, $J = 1.5, 8.3$), 7.87 (t, 1H, 6, $J = 5.5$), 7.62-7.57 (m, 2H, 2', 6'), 7.45-7.40 (m, 1H, 16), 7.14-7.08 (m, 2H, 3', 5'), 6.47 (d, 1H, 21, $J = 2.4$), 6.26 (d, 1H, 19, $J = 2.4$), 6.12 (d, 1H, 12, $J = 8.8$), 3.82 (s, 3H, 22), 3.65-3.57 (m, 1H, 10), 3.10-3.04 (m, 2H, 7), 2.54 (t, 2H, 3, $J = 7.1$), 2.37 (t, 2H, 4, $J = 7.0$), 1.69-1.59, 1.58-1.43 (2m, 4H, 8, 9), 1.19 (d, 3H, 11, $J = 6.3$)	170.96 (5), 170.35 (2), 159.00 (20), 157.72 (4', d, $J = 246.3$), 144.63 (13), 144.22 (15), 135.76 (1'), 134.79 (17), 134.52 (14), 129.57 (18), 122.09 (16), 120.53 (2', 6', d, $J = 7.8$), 115.14 (3', 5', d, $J = 22.1$), 96.09 (21), 91.58 (19), 54.97 (22), 47.00 (10), 38.48 (7), 33.39 (9), 31.66 (3), 30.34 (4), 25.99 (8), 20.17 (11)
5c		10.11 (s, 1H, 1), 8.54-8.53 (dd, 1H, 15, $J = 1.6, 4.2$), 8.08-8.06 (dd, 1H, 17, $J = 1.6, 8.3$), 7.86 (t, 1H, 6, $J = 5.5$), 7.81 (t, 1H, 2', $J = 2.0$), 7.43-7.41 (m, 2H, 16, 6'), 7.31-7.28 (m, 1H, 5'), 7.07-7.05 (m, 1H, 4'), 6.47 (d, 1H, 21, $J = 2.5$), 6.25 (d, 1H, 19, $J = 2.5$), 6.11 (d, 1H, 12, $J = 8.2$), 3.82 (s, 3H, 22), 3.63-3.59 (m, 1H, 10), 3.10-3.03 (m, 2H, 7), 2.55 (t, 2H, 3, $J = 7.1$), 2.37 (t, 2H, 4, $J = 7.2$), 1.67-1.63, 1.56-1.44 (2m, 4H, 8, 9), 1.19 (d, 3H, 11, $J = 6.3$)	170.89 (5), 170.85 (2), 158.98 (20), 144.60 (13), 144.19 (15), 140.73 (1'), 134.77 (17), 134.49 (14), 132.97 (3'), 130.29 (5'), 129.55 (18), 122.51 (4'), 122.06 (16), 118.31 (6'), 117.19 (2'), 96.08 (21), 91.59 (19), 54.95 (22), 46.99 (10), 38.46 (7), 33.38 (9), 31.74 (3), 30.16 (4), 25.96 (8), 20.16 (11)
5d		10.07 (s, 1H, 1), 8.55-8.53 (dd, 1H, 15, $J = 1.5, 4.2$), 8.10-8.07 (dd, 1H, 17, $J = 1.4, 8.3$), 7.88 (t, 1H, 6, $J = 5.4$), 7.61 (d, 2H, 2', 6', $J = 8.9$), 7.45-7.41 (m, 1H, 16), 7.32 (d, 2H, 3', 5', $J = 8.9$), 6.48 (d, 1H, 21, $J = 2.3$), 6.26 (d, 1H, 19, $J = 2.3$), 6.13 (bs, 1H, 12), 3.81 (s, 3H, 22), 3.63-3.57 (m, 1H, 10), 3.09-3.03 (m, 2H, 7), 2.55 (t, 2H, 3, $J = 7.4$), 2.39 (t, 2H, 4, $J = 7.0$), 1.70-1.59, 1.58-1.43 (2m, 4H, 8, 9), 1.19 (d, 3H, 11, $J = 6.3$)	170.92 (5), 170.64 (2), 159.01 (20), 144.55 (13), 144.18 (15), 138.28 (1'), 134.89 (17), 134.42 (14), 129.59 (18), 128.51 (3', 5'), 126.33 (4'), 122.09 (16), 120.37 (2', 6'), 96.19 (21), 91.63 (19), 54.98 (22), 47.02 (10), 38.47 (7), 33.37 (9), 31.73 (3), 30.23 (4), 25.98 (8), 20.15 (11)

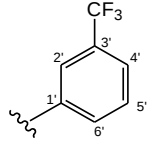
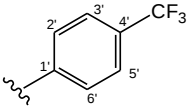
5e		10.26 (s, 1H, 1), 8.54-8.53 (dd, 1H, 15, $J = 1.6, 4.2$), 8.11 (s, 1H, 2'), 8.08-8.06 (dd, 1H, 17, $J = 1.6, 8.3$), 7.88 (t, 1H, 6, $J = 5.5$), 7.74 (d, 1H, 6', $J = 8.1$), 7.52 (t, 1H, 4', $J = 8.0$), 7.43-7.41 (m, 1H, 16), 7.36 (d, 1H, 5', $J = 7.8$), 6.47 (d, 1H, 21, $J = 2.5$), 6.25 (d, 1H, 19, $J = 2.5$), 6.11 (d, 1H, 12, $J = 8.7$), 3.82 (s, 3H, 22), 3.63-3.58 (m, 1H, 10), 3.10-3.04 (m, 2H, 7), 2.57 (t, 2H, 3, $J = 7.2$), 2.41 (t, 2H, 4, $J = 7.2$), 1.67-1.63, 1.56-1.44 (2m, 4H, 8, 9), 1.19 (d, 3H, 11, $J = 6.3$)	171.11 (5), 170.84 (2), 158.98 (20), 144.61 (13), 144.19 (15), 140.03 (1'), 134.75 (17), 134.50 (14), 129.83 (5'), 129.55 (18), 129.67-129.04 (3', q, $J = 31.9$), 126.81-121.40 (7', q, $J = 269.8$), 122.33 (6'), 122.05 (16), 119.14 (4'), 114.88 (2'), 96.06 (21), 91.58 (19), 54.94 (22), 46.98 (10), 38.46 (7), 33.38 (9), 31.72 (3), 30.11 (4), 25.96 (8), 20.14 (11)
5f		10.31 (s, 1H, 1), 8.54-8.52 (dd, 1H, 15, $J = 1.5, 4.2$), 8.09-8.06 (dd, 1H, 17, $J = 1.5, 8.3$), 7.89 (t, 1H, 6, $J = 5.3$), 7.79 (d, 2H, 2', 6', $J = 8.5$), 7.63 (d, 2H, 3', 5', $J = 8.7$), 7.44-7.40 (m, 1H, 16), 6.47 (d, 1H, 21, $J = 2.4$), 6.25 (d, 1H, 19, $J = 2.4$), 6.11 (d, 1H, 12, $J = 8.7$), 3.82 (s, 3H, 22), 3.65-3.57 (m, 1H, 10), 3.09-3.04 (m, 2H, 7), 2.59 (t, 2H, 3, $J = 7.0$), 2.40 (t, 2H, 4, $J = 7.0$), 1.71-1.58, 1.57-1.43 (2m, 4H, 8, 9), 1.19 (d, 3H, 11, $J = 6.2$)	171.18 (5), 170.86 (2), 158.99 (20), 144.61 (13), 144.20 (15), 142.83 (1'), 134.77 (17), 134.51 (14), 129.55 (18), 125.95 (3', 5'), 127.05-121.68 (7', q, $J = 274.2$), 123.15-122.52 (4', q, $J = 28.2$), 122.06 (16), 118.69 (2', 6'), 96.08 (21), 91.59 (19), 54.95 (22), 46.99 (10), 38.47 (7), 33.38 (9), 31.79 (3), 30.10 (4), 25.96 (8), 20.14 (11)

Table S4. Interaction of fumardiamide **4b** with GSH

Time (h)	Reaction			Control		
	4b	standard	4b/standard	4b	standard	4b/standard
0	1.09E+09	1.49E+09	0.732	6.05E+08	1.26E+09	0.479
5	8.64E+08	1.21E+09	0.715	5.51E+08	1.07E+09	0.516
26	7.65E+08	1.09E+09	0.704	5.27E+08	1.03E+09	0.509
52	5.80E+08	8.71E+08	0.665	5.06E+08	1.02E+09	0.498
124	5.96E+08	9.29E+08	0.642	5.64E+08	1.16E+09	0.488
216	6.64E+08	1.11E+09	0.598	6.06E+08	1.21E+09	0.500

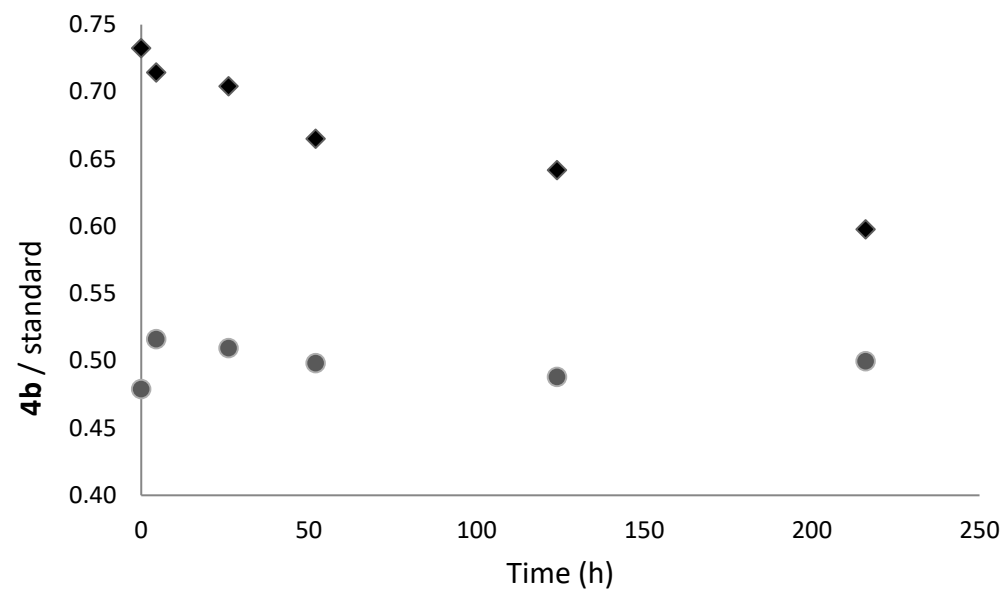
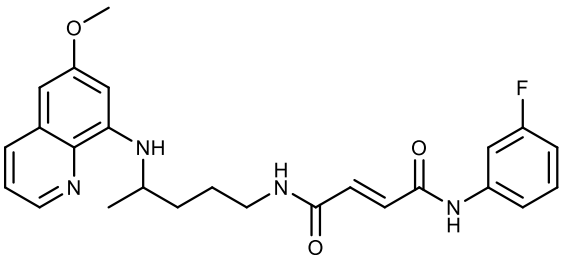
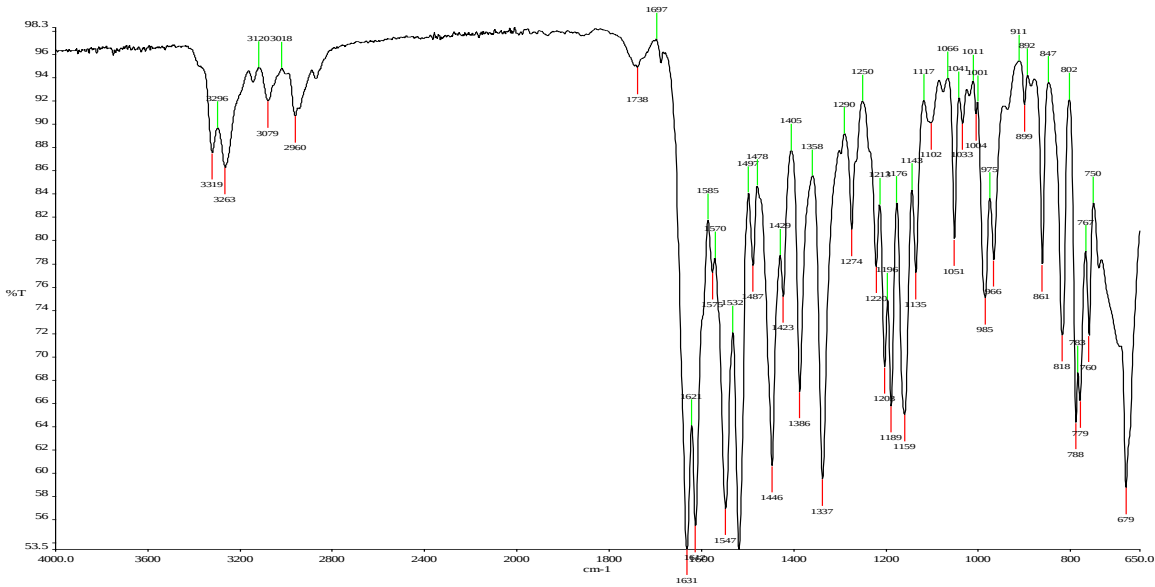


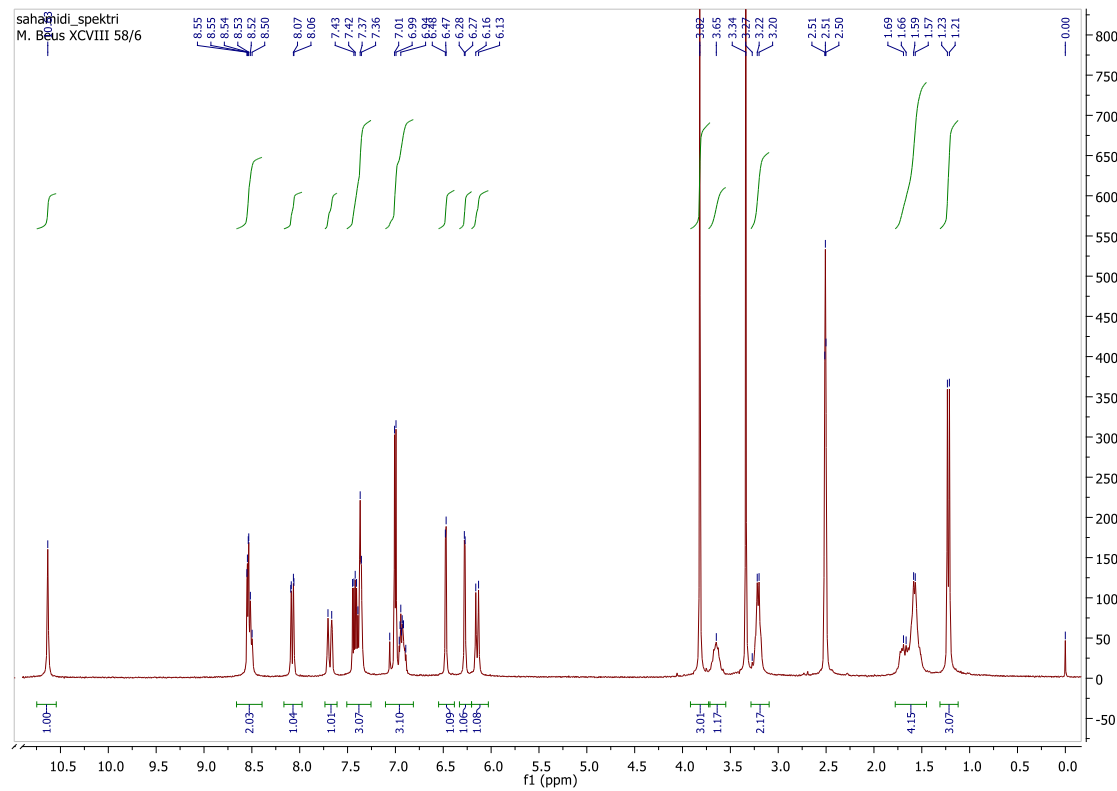
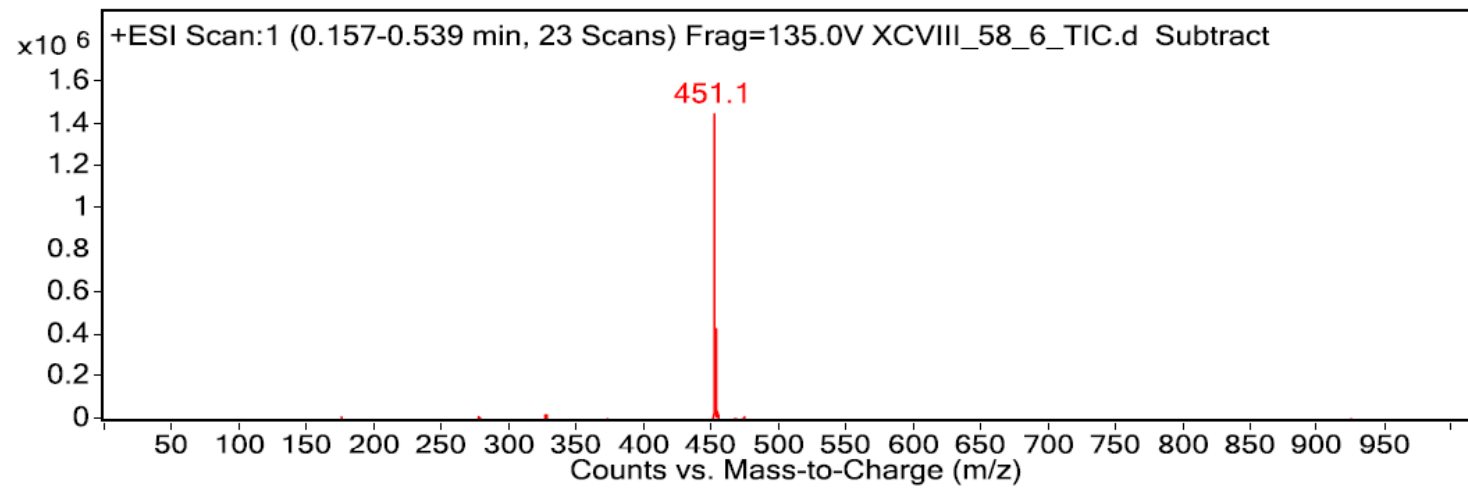
Figure S1. Interaction of fumardiamide **4b** with GSH (♦). Control: (*N*-(benzyloxy)-*N'*-{4-[(6-methoxyquinolin-8-yl)amino]pentyl}butanediamide) (●).

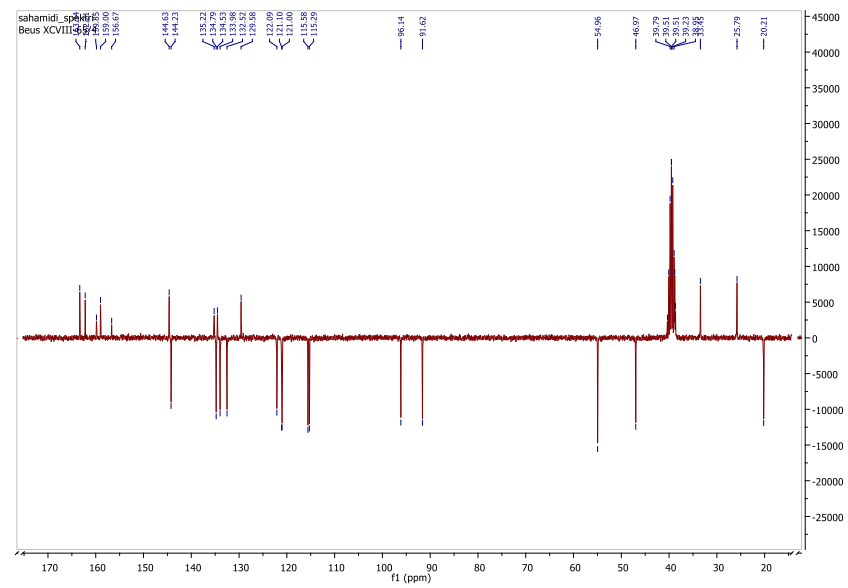
Spectra:

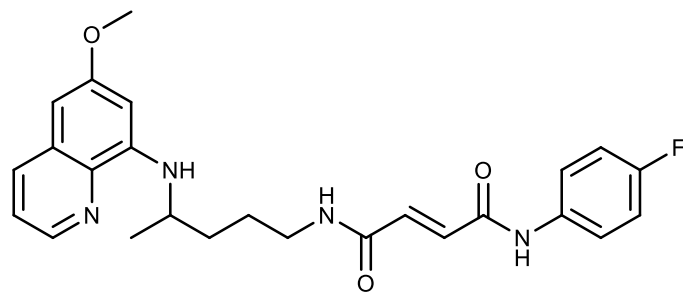


4a

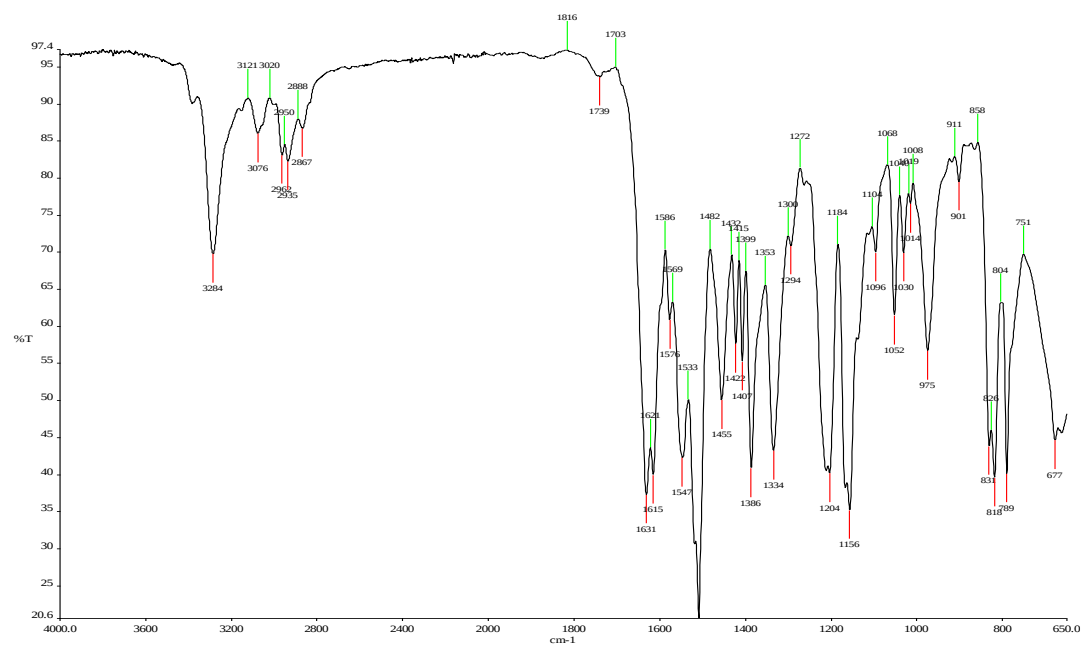








4b

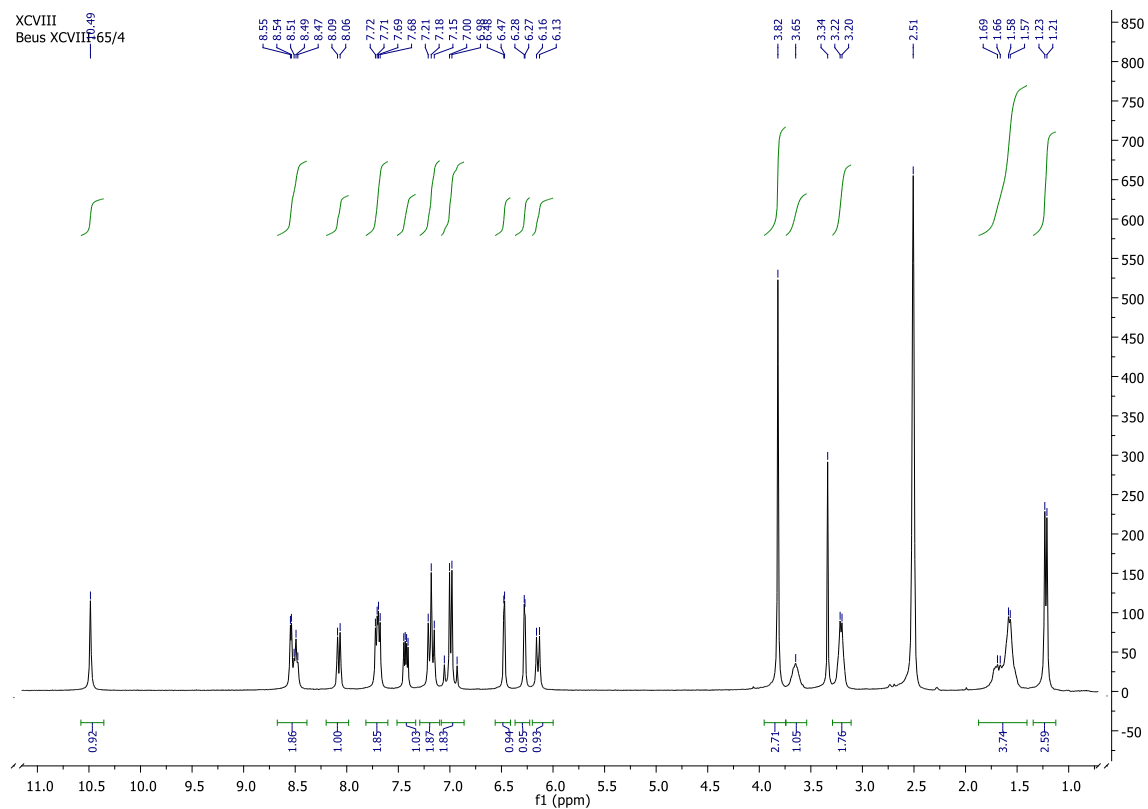
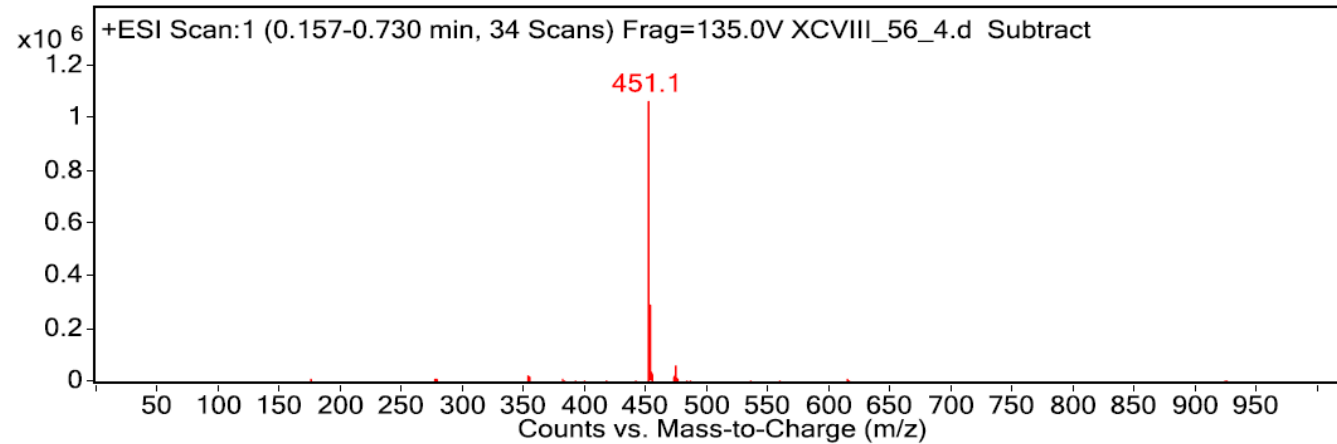


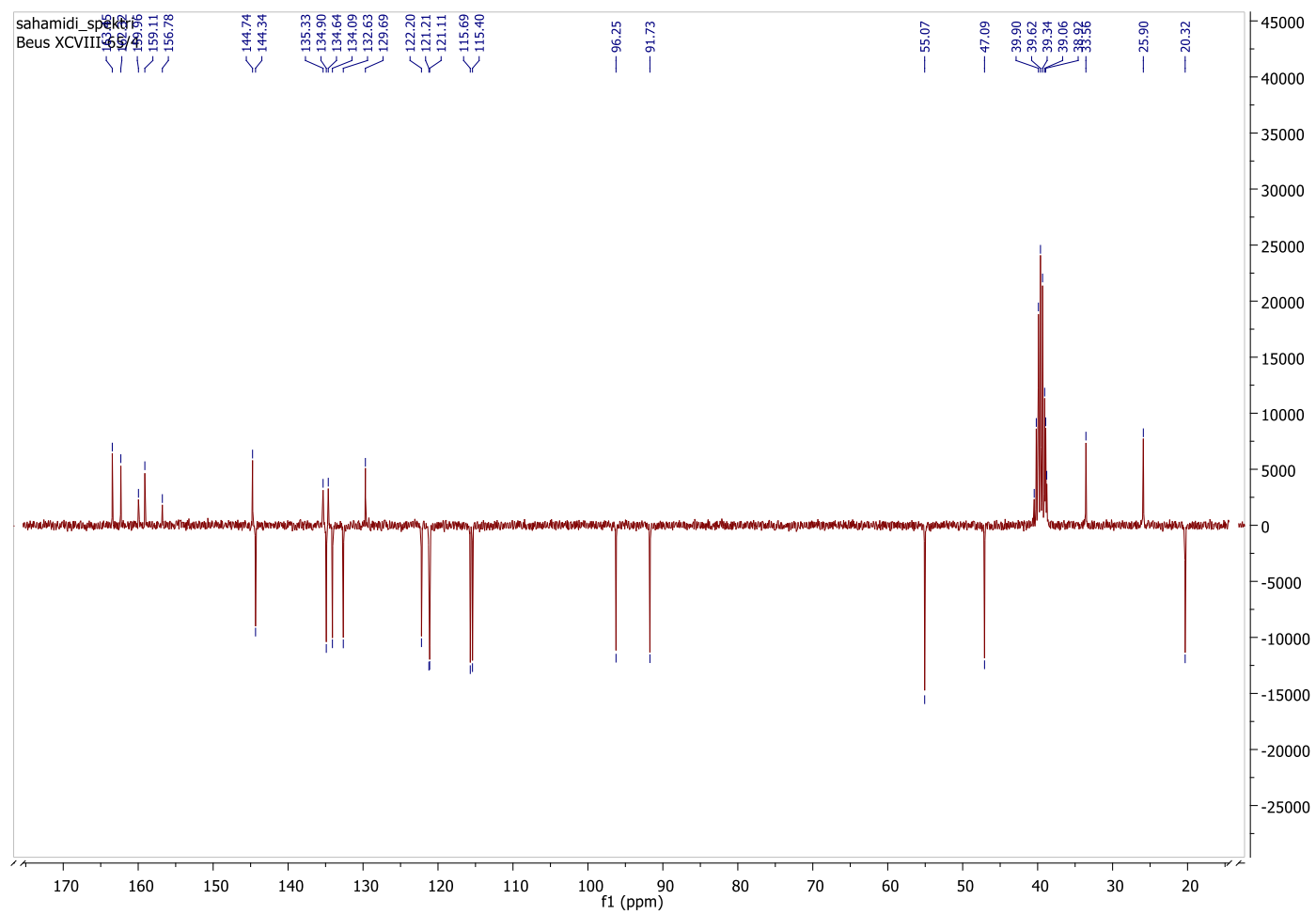
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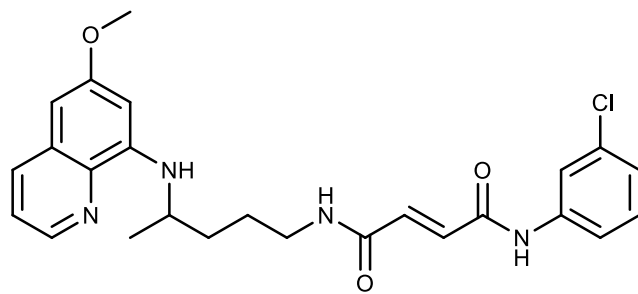
Fragmentor Voltage
135

Collision Energy
0

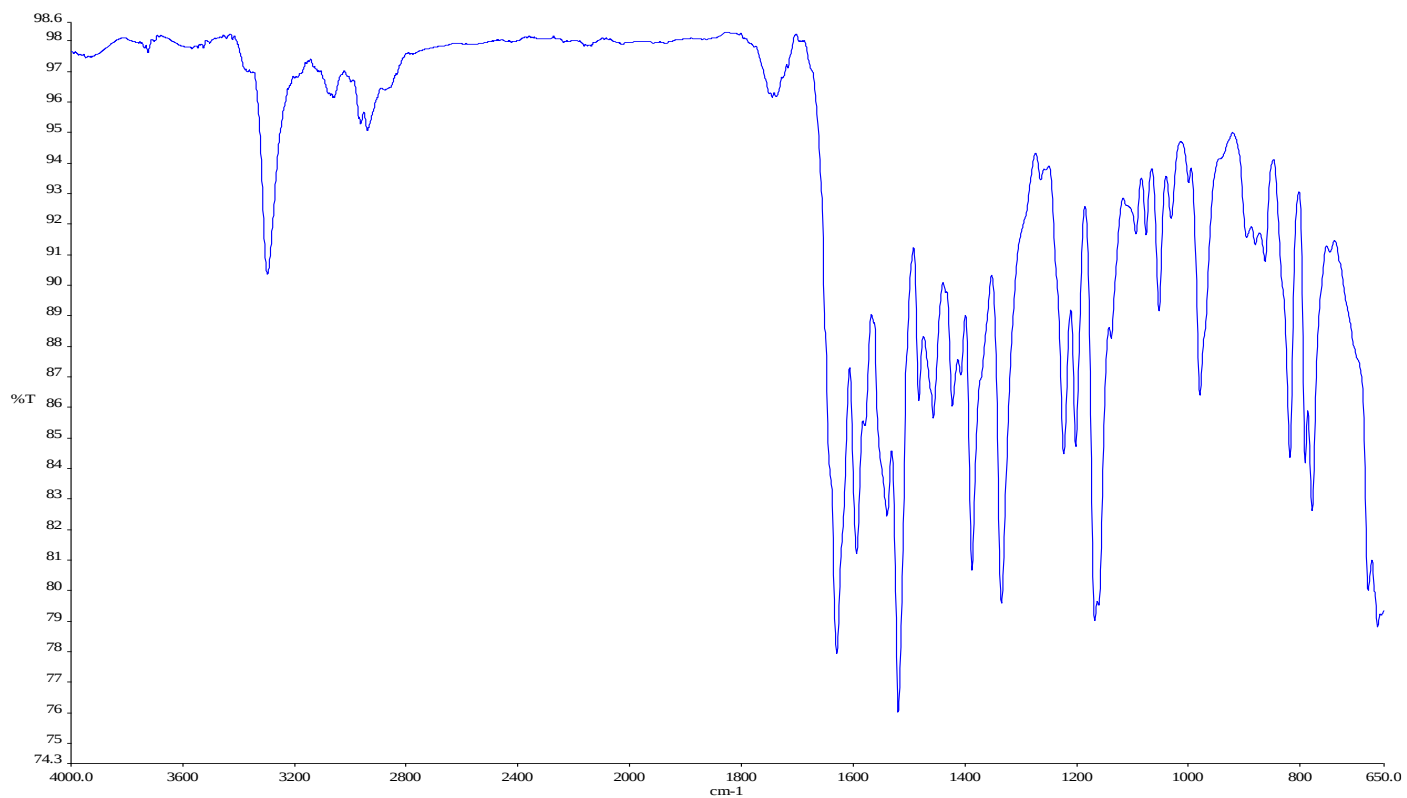
Ionization Mode
ESI







4c

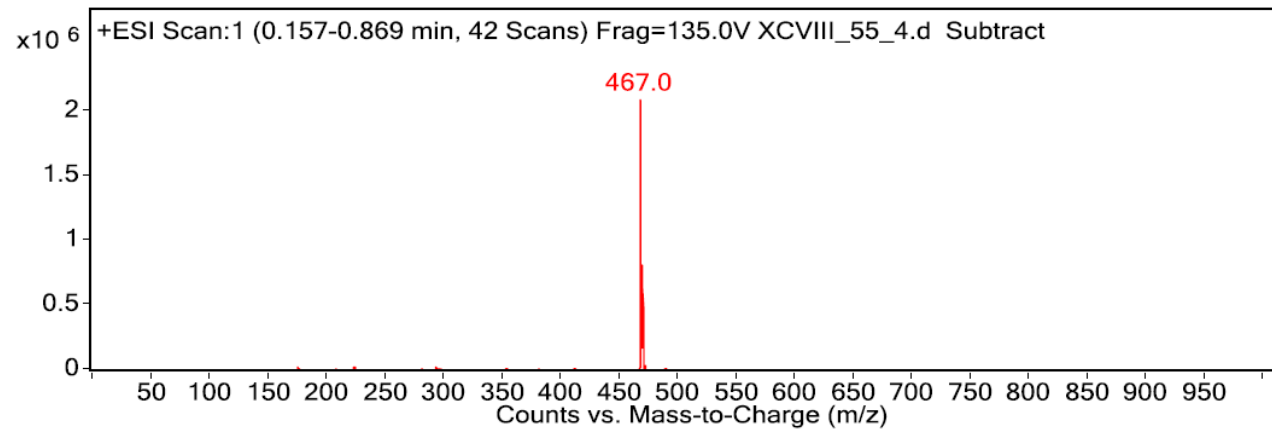


Spectrum Source
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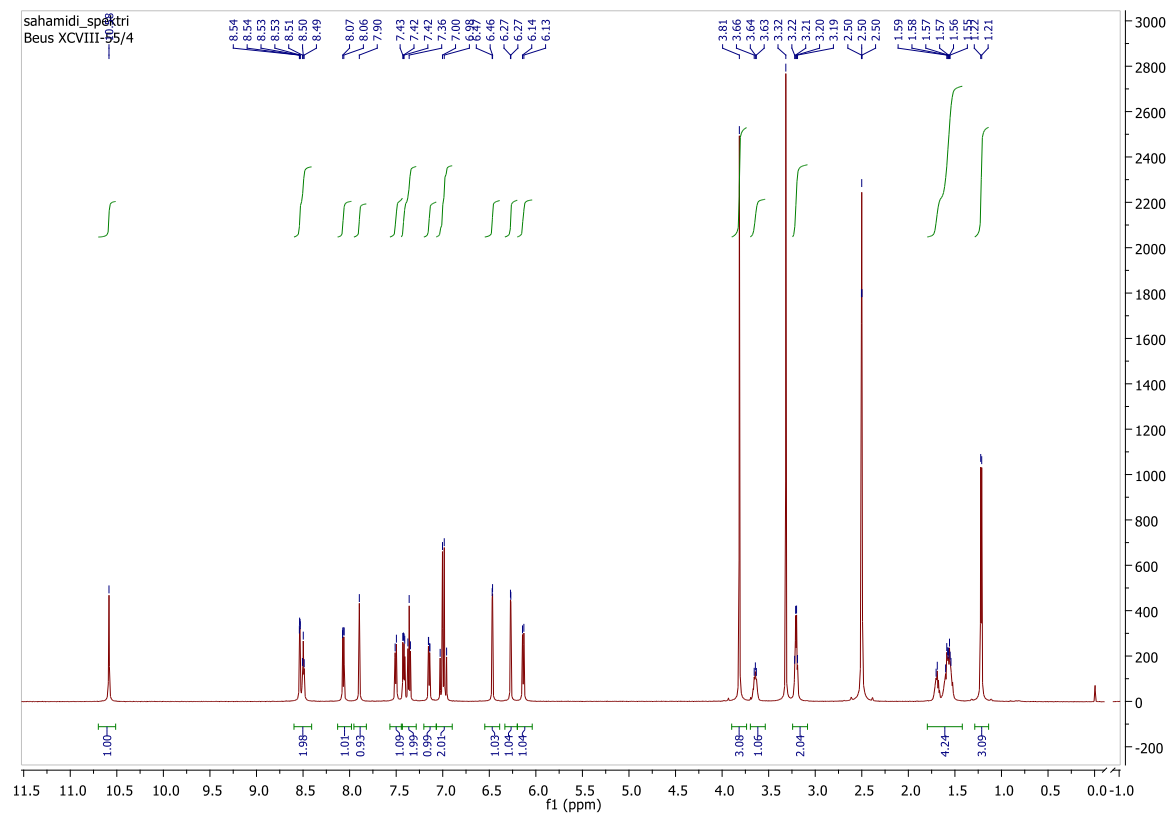
Fragmentor Voltage
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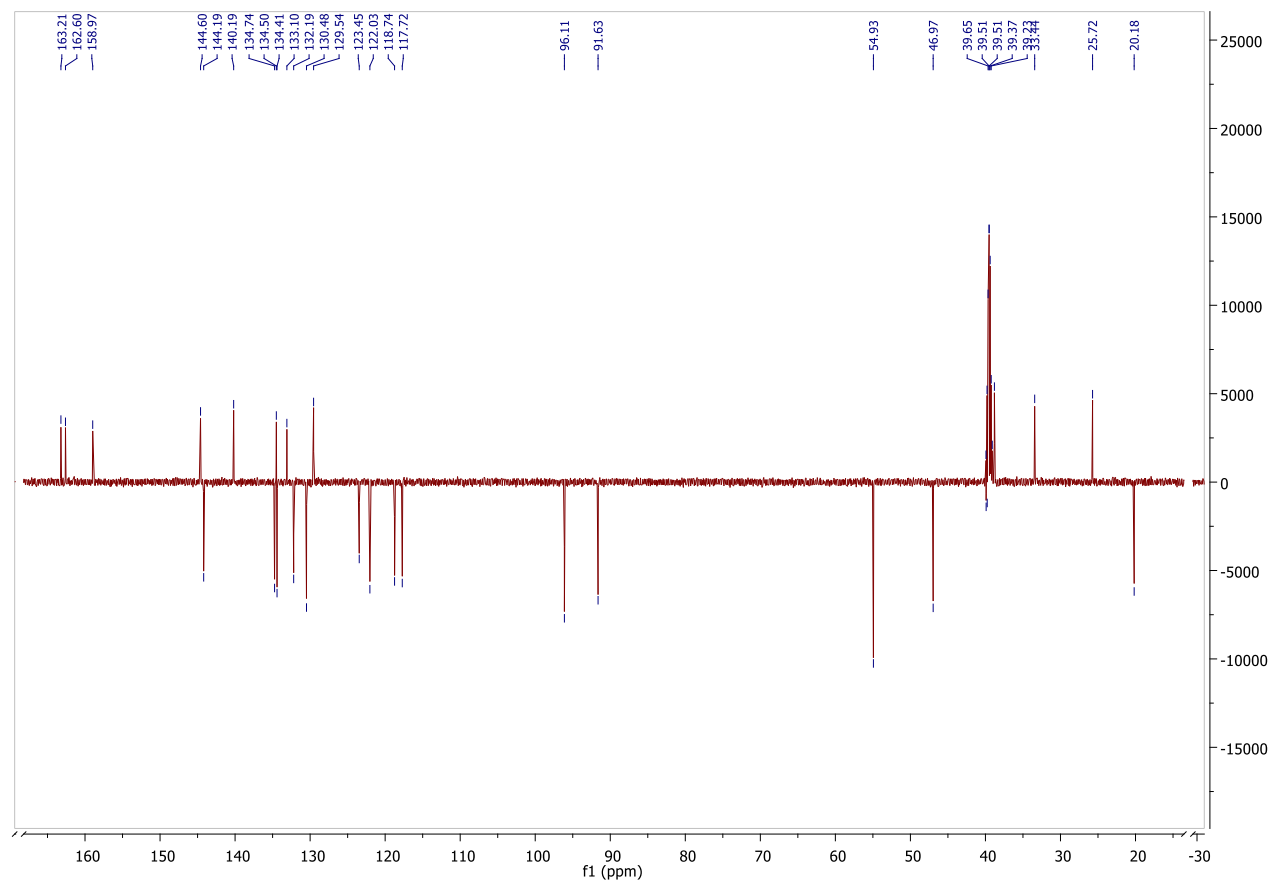
Collision Energy
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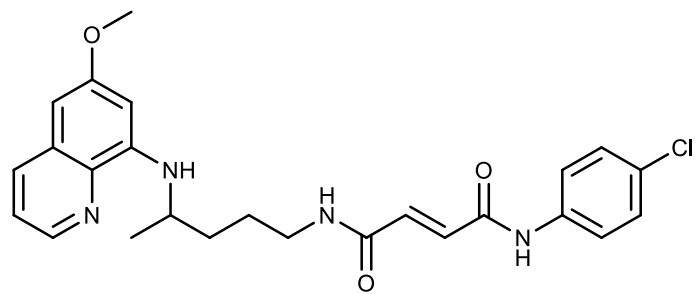
Ionization Mode
ESI



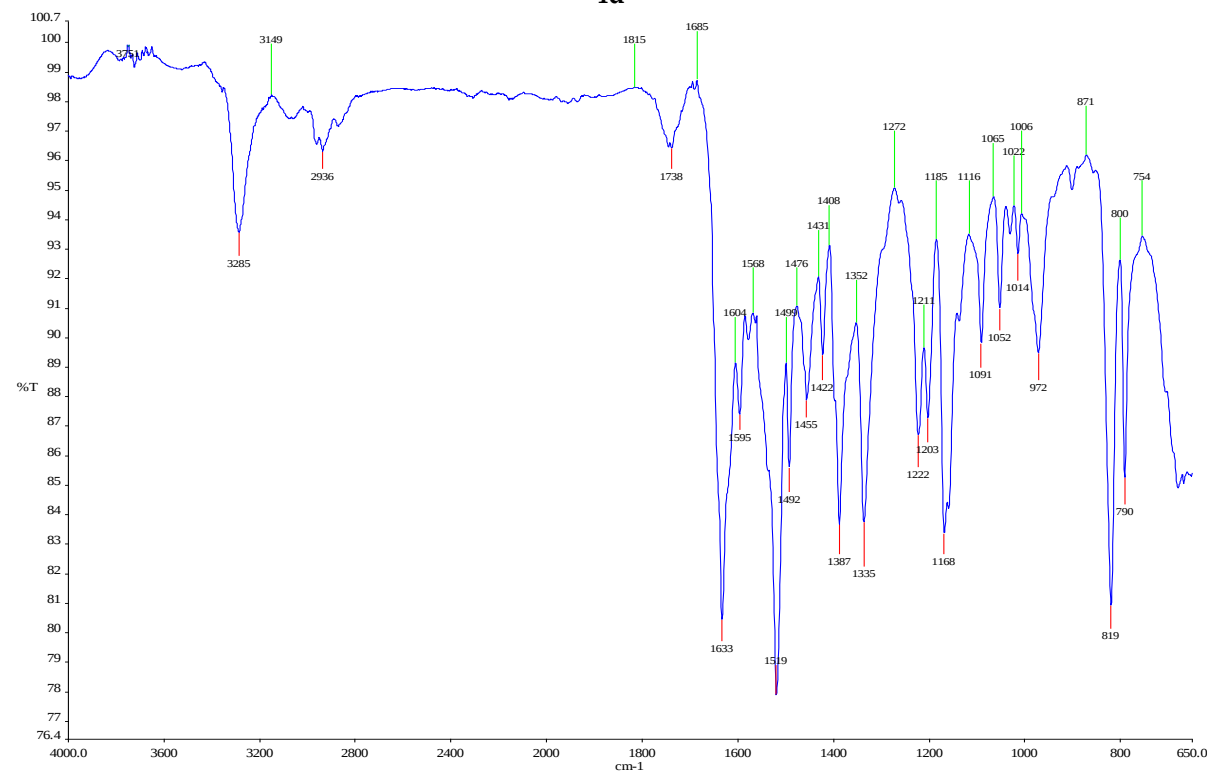
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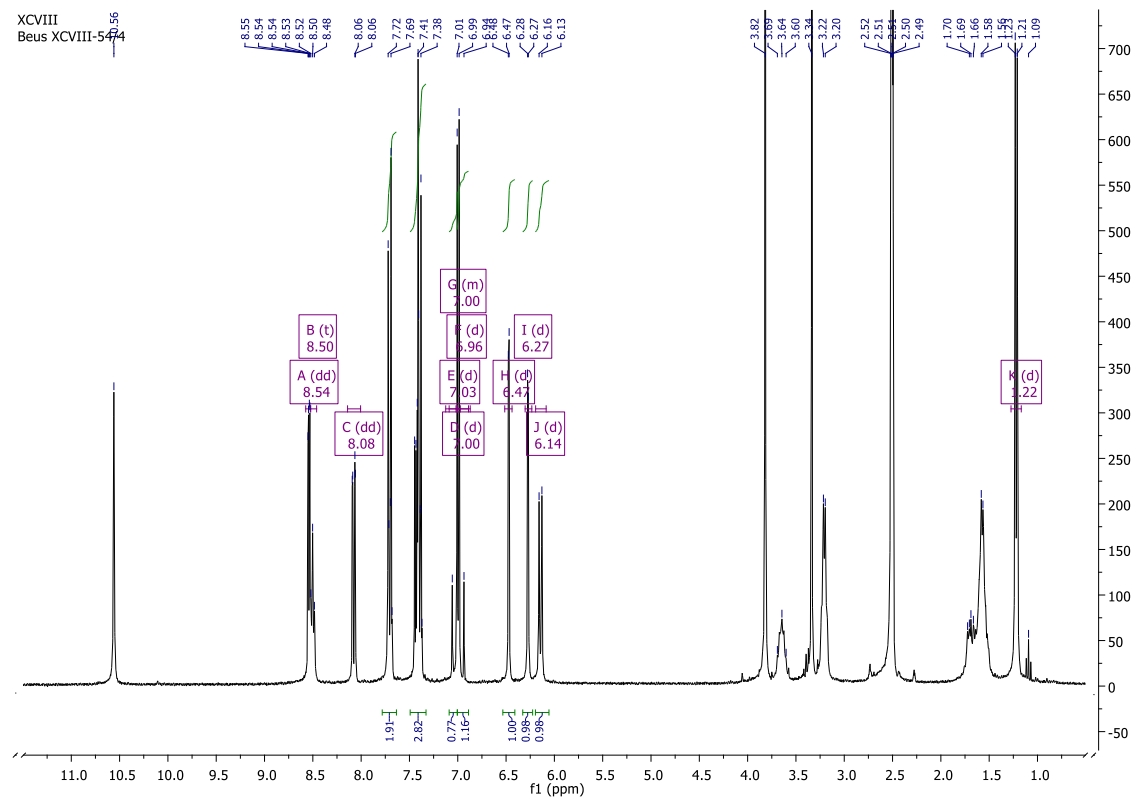
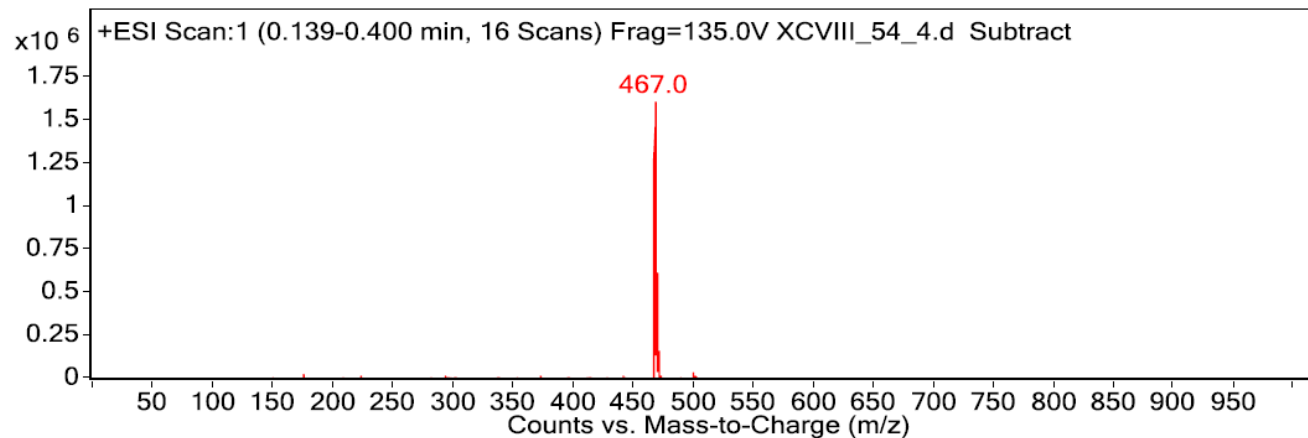


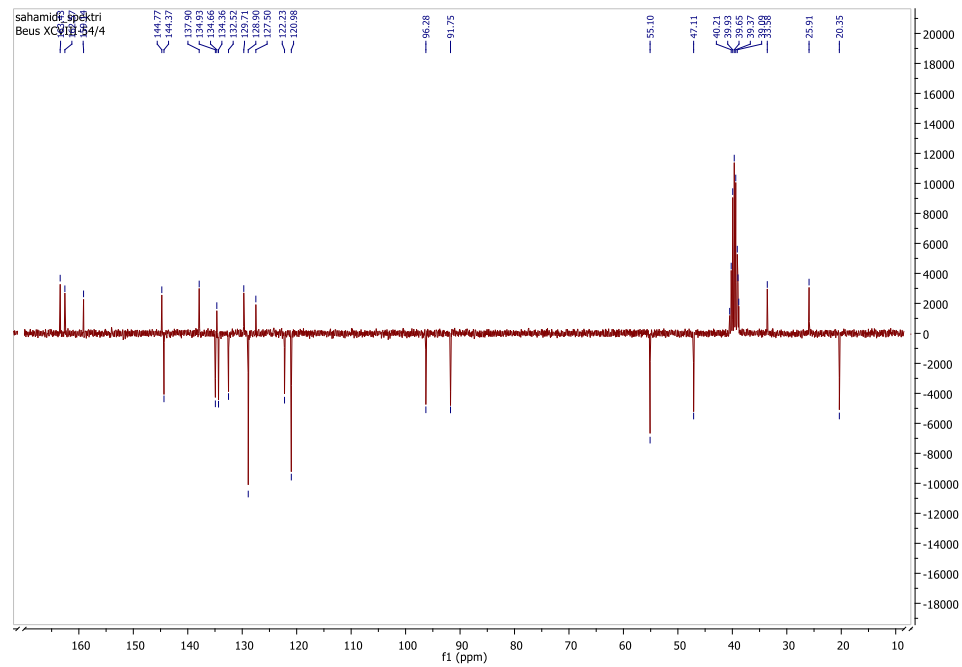


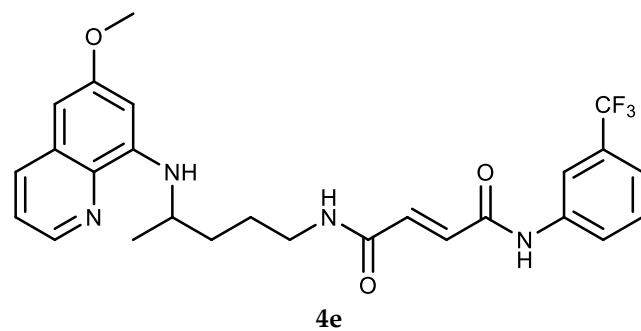
4d



Ionization Mode
ESI





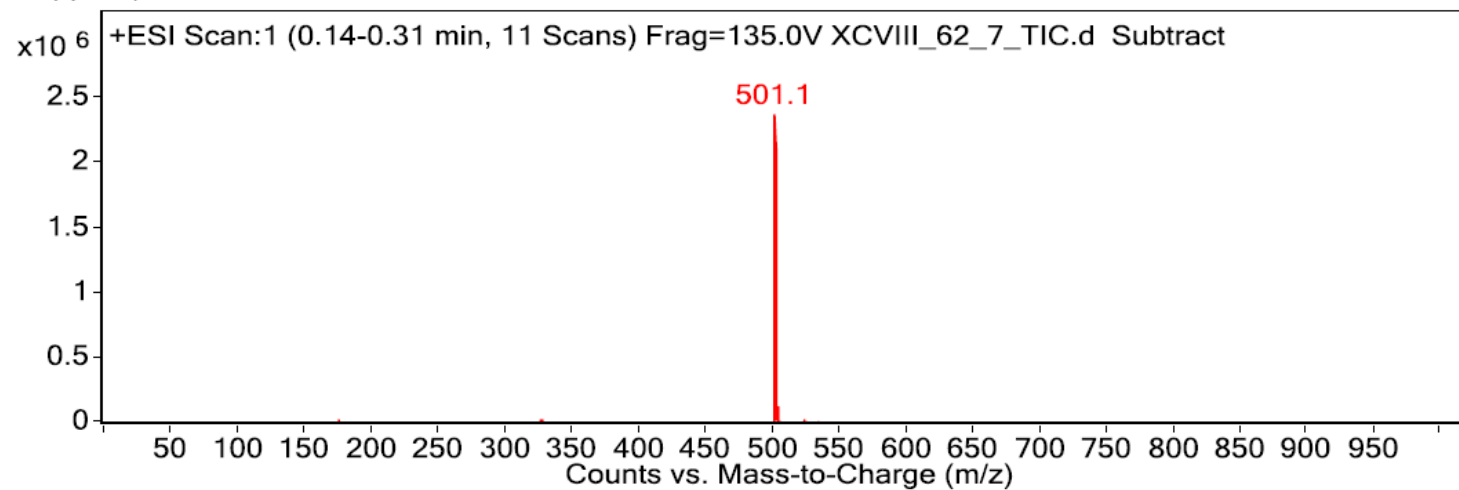


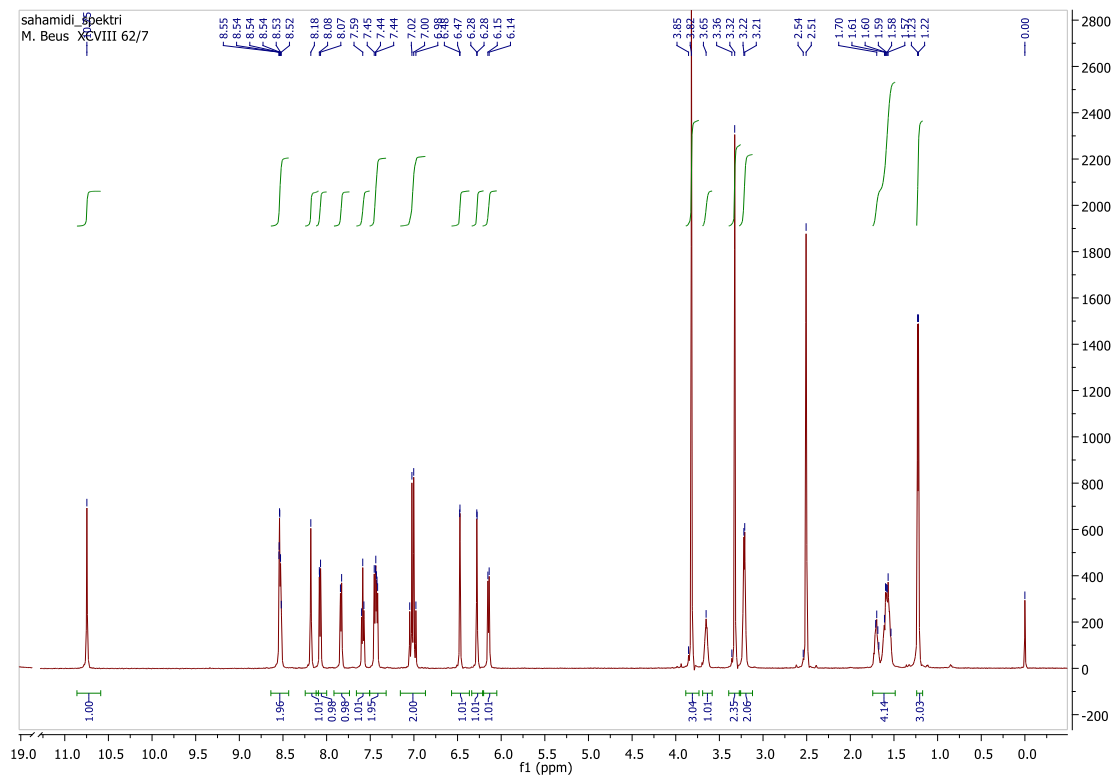
Spectrum Source
Peak (1) in "+/- TIC Scan"

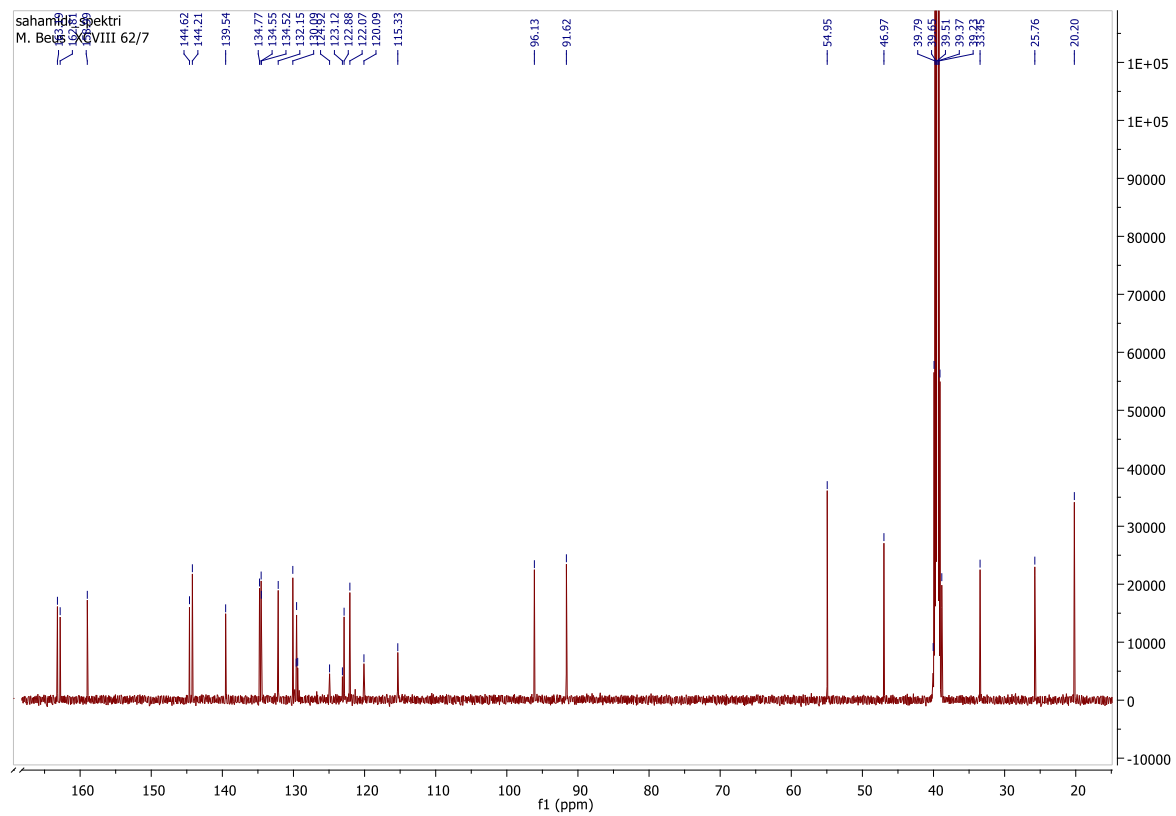
Fragmentor Voltage
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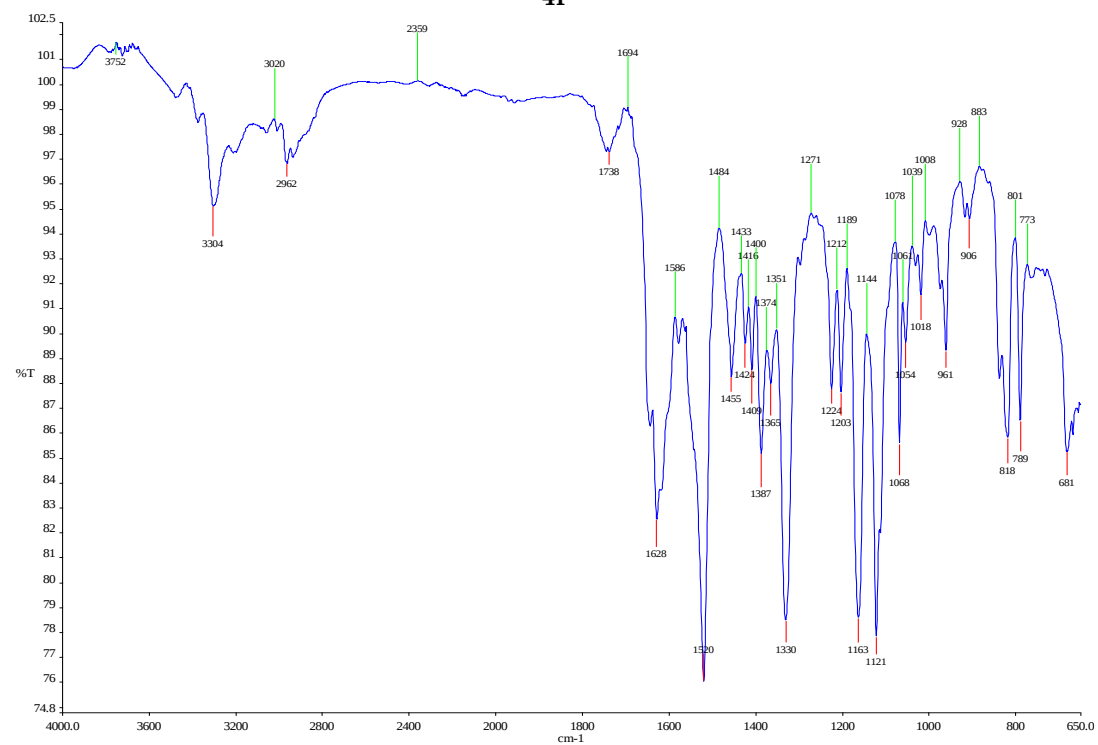
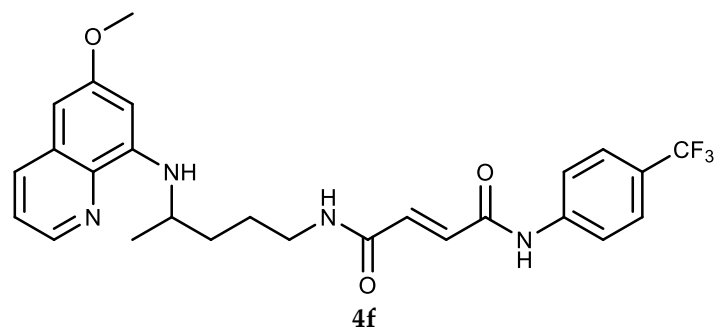
Collision Energy
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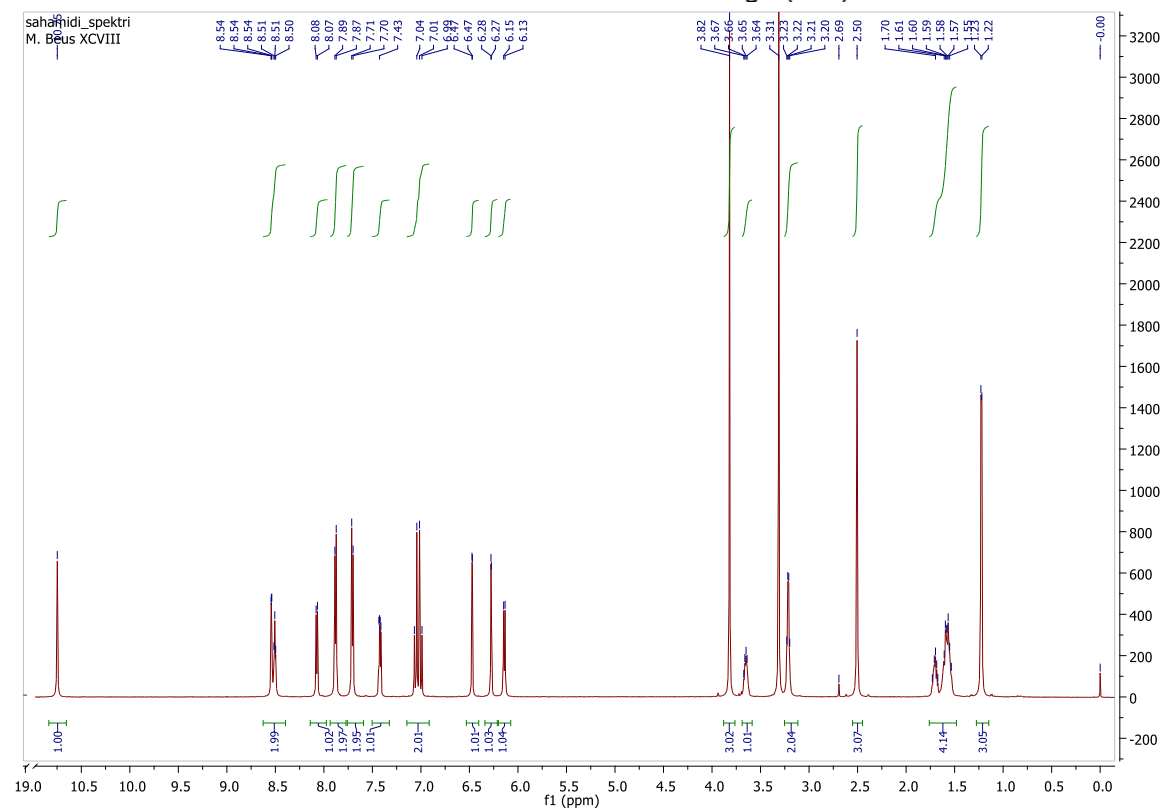
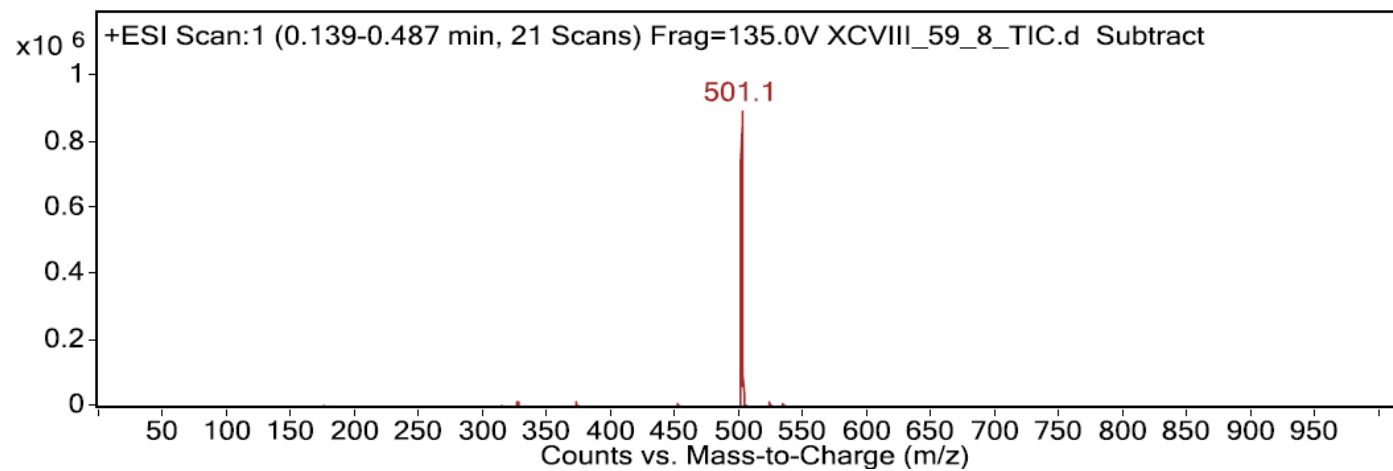
Ionization Mode
ESI

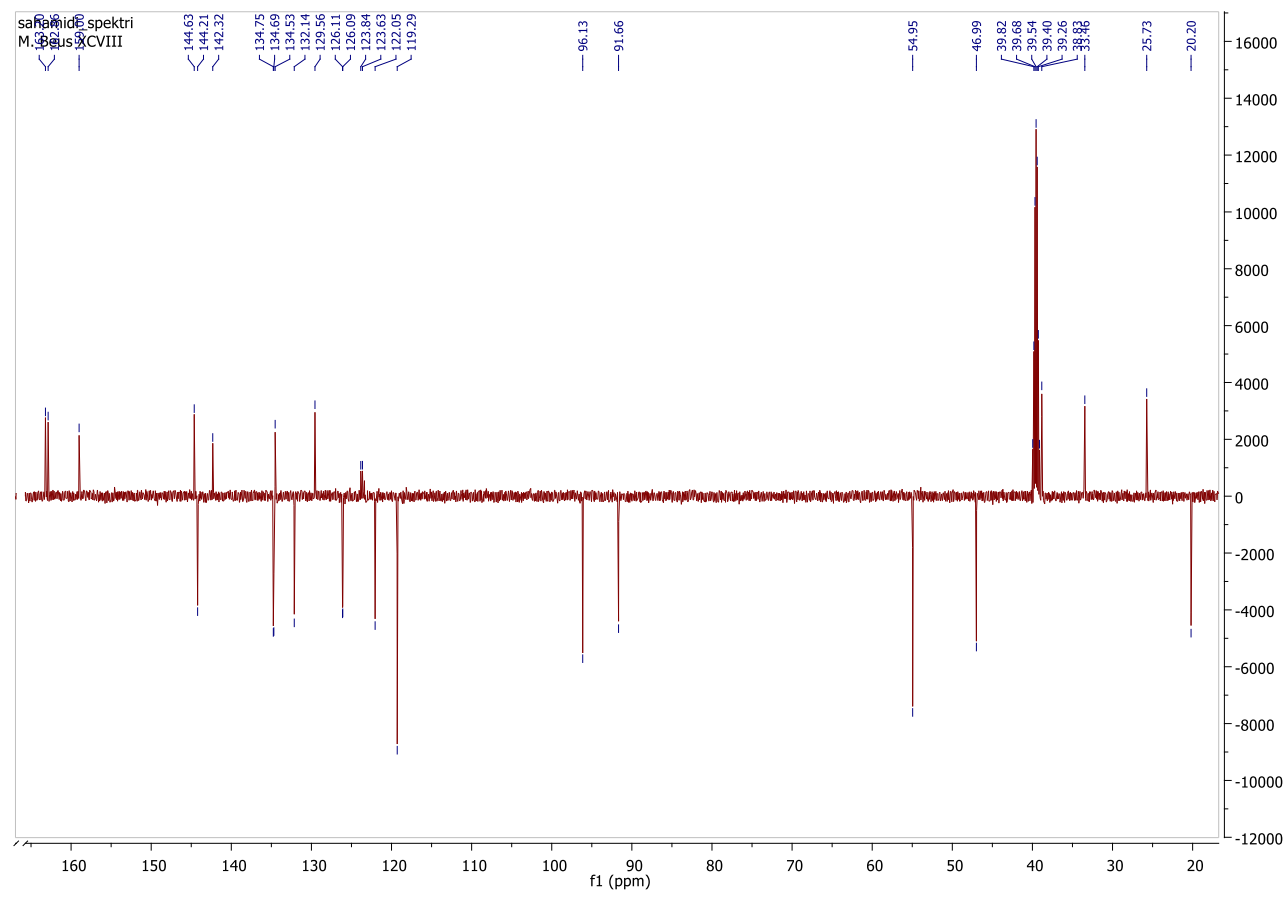


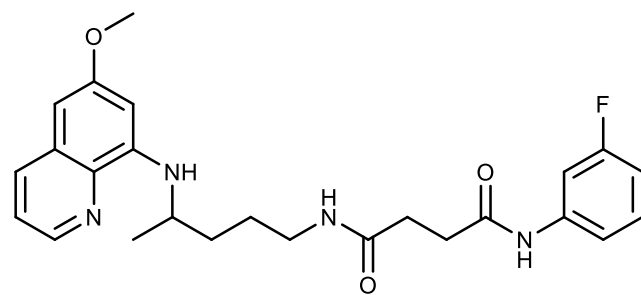




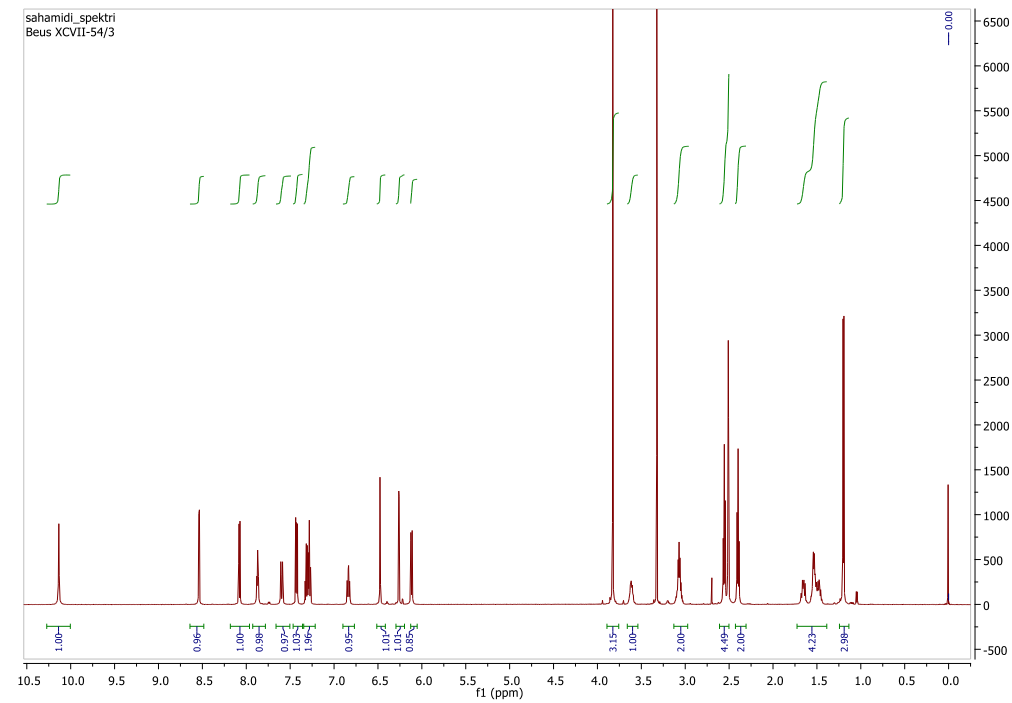
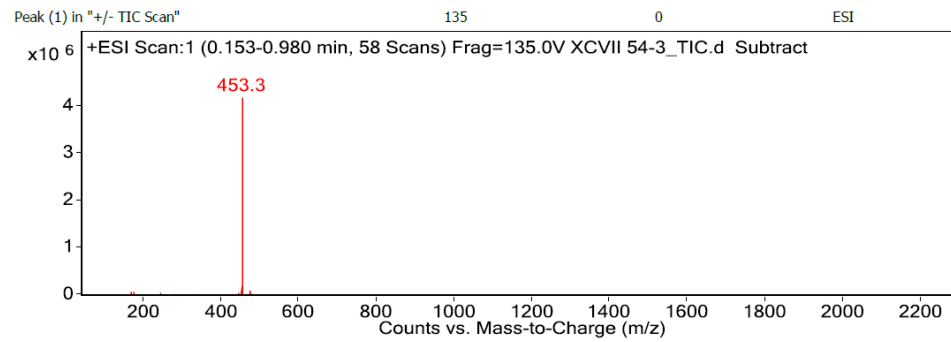


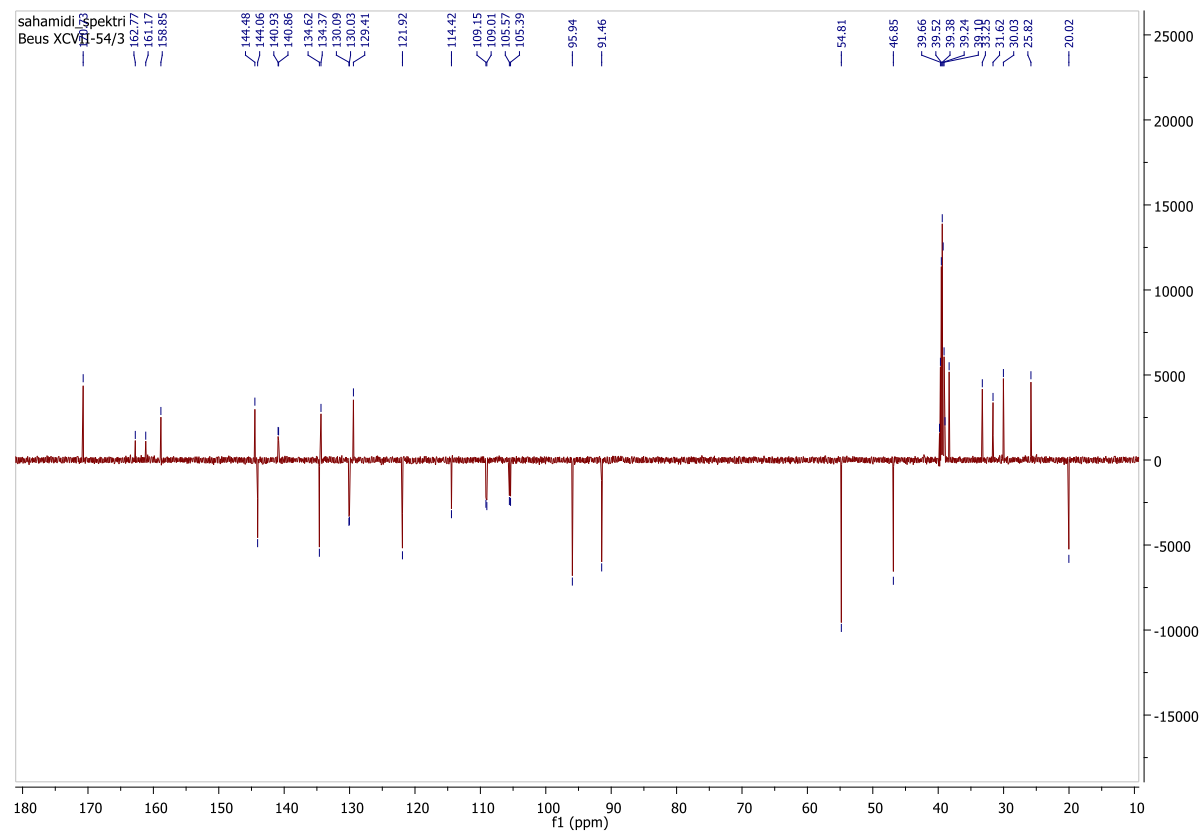


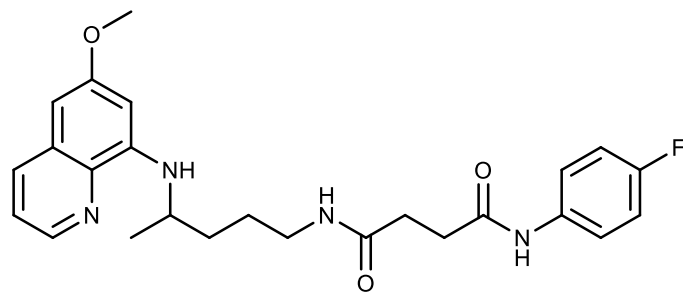




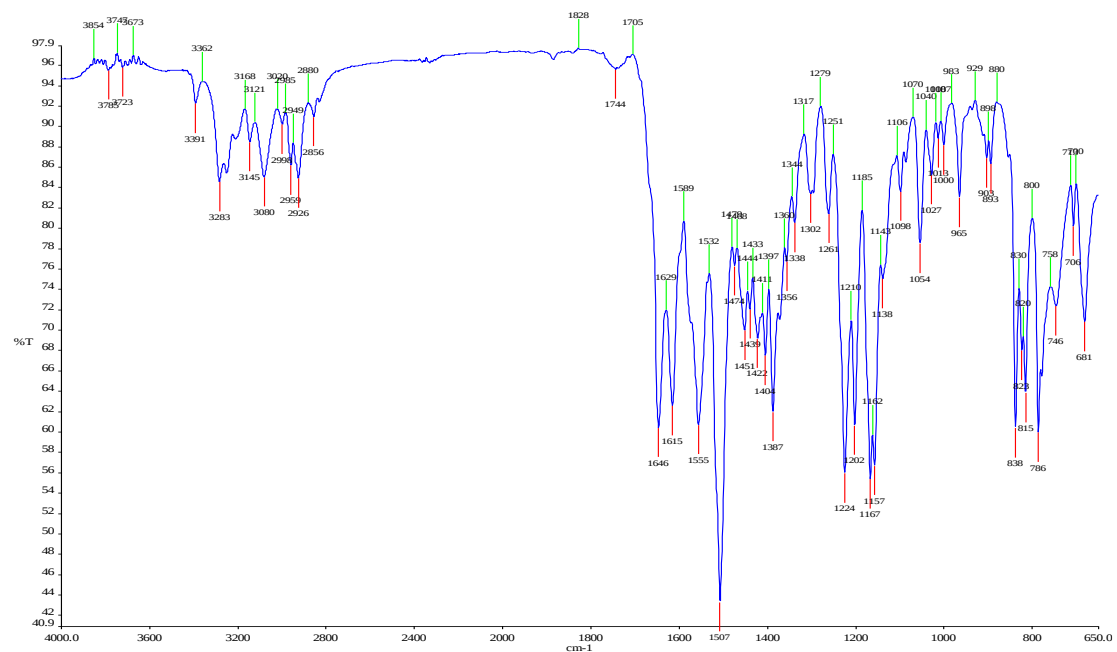
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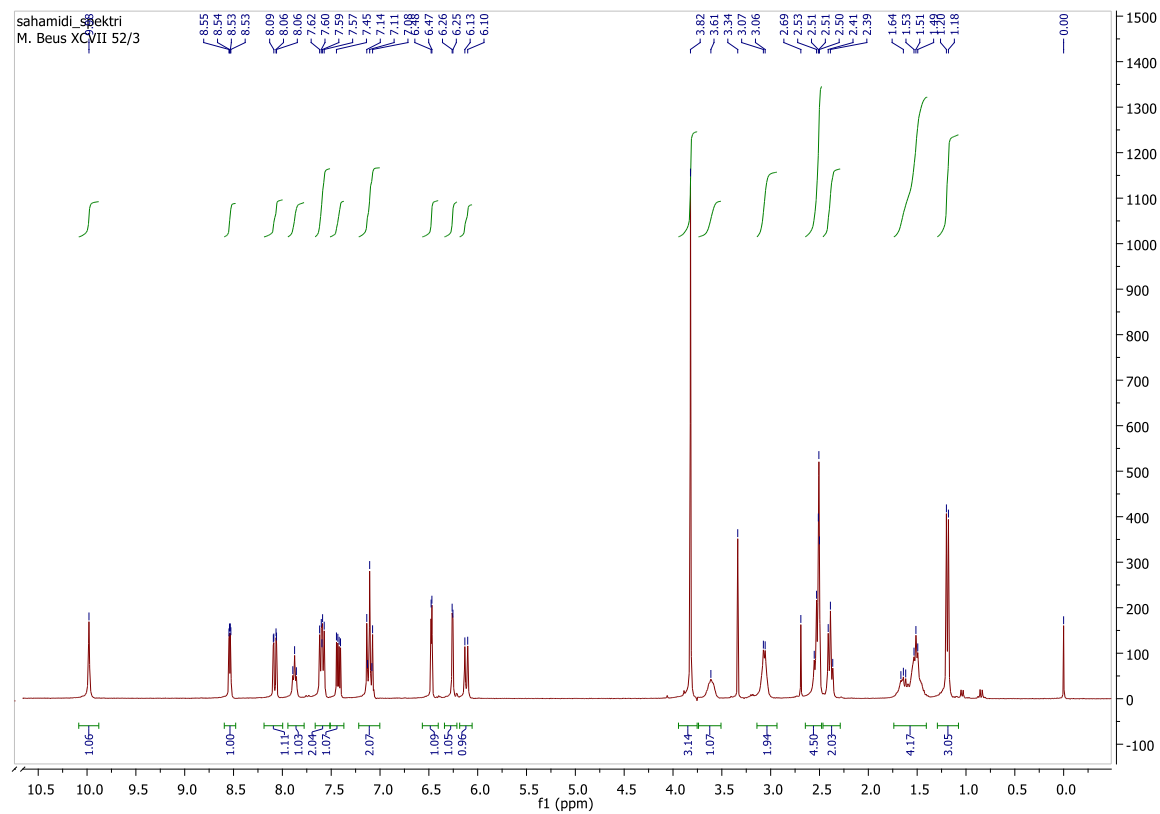
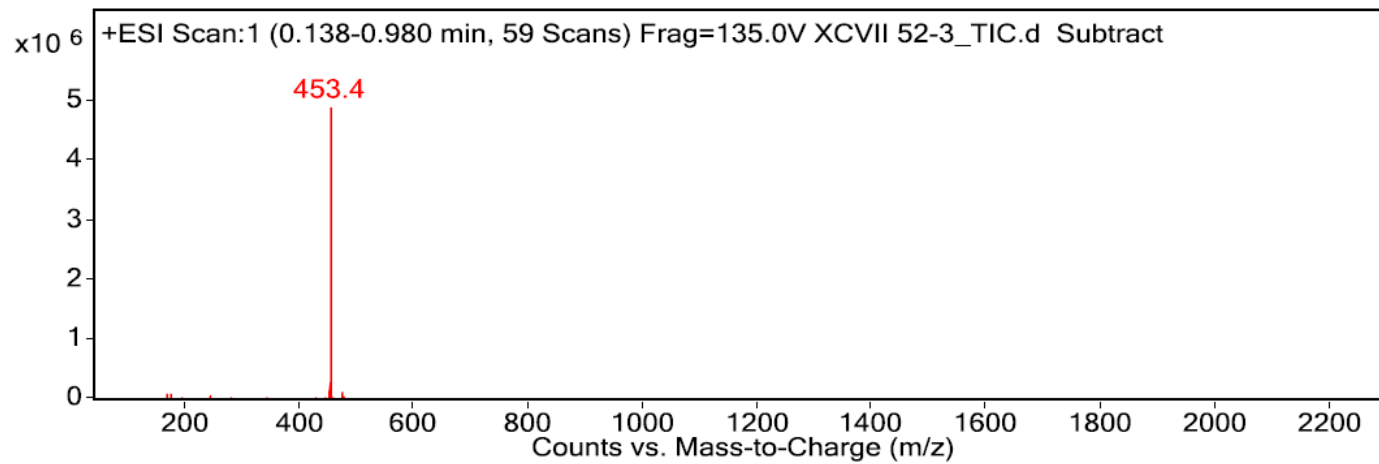


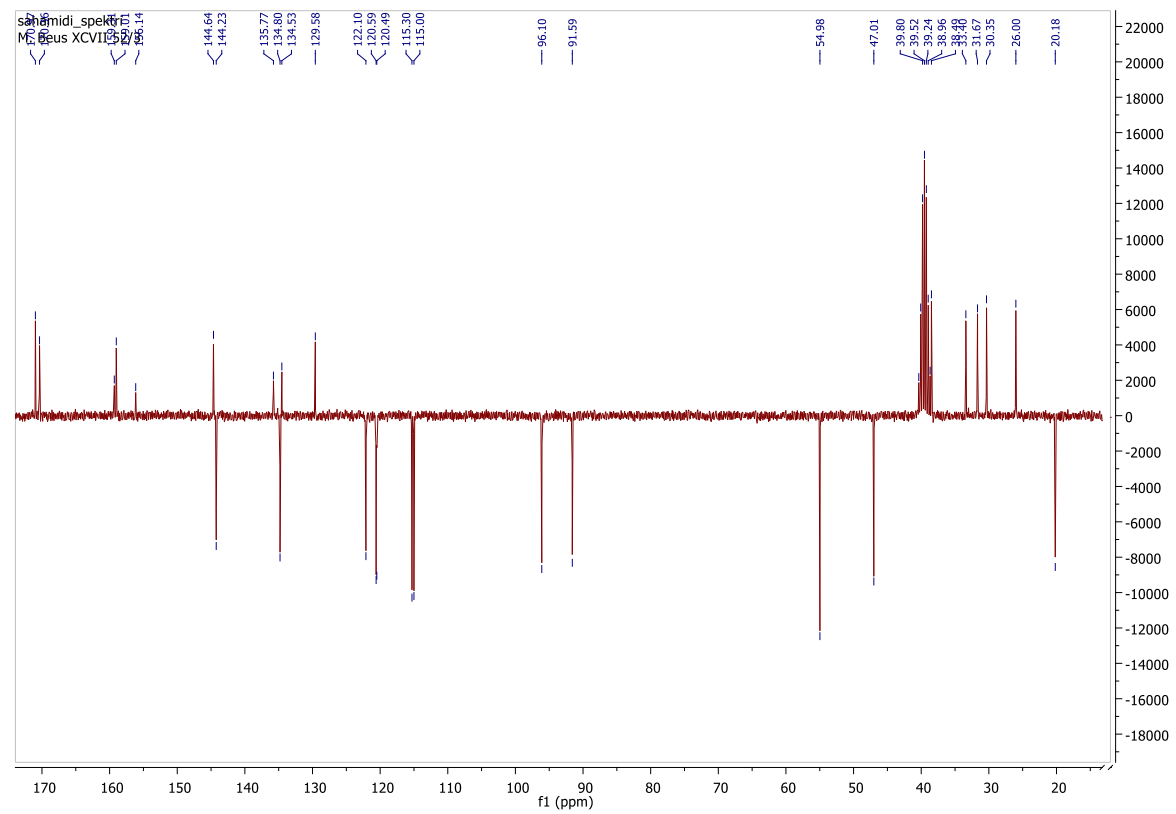


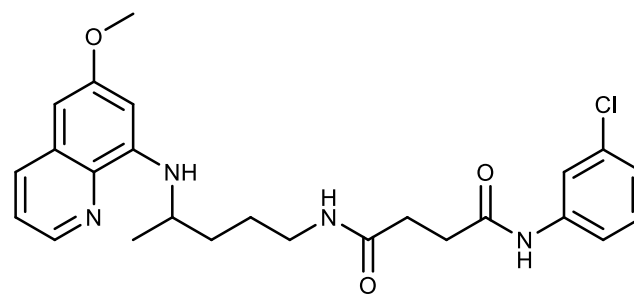


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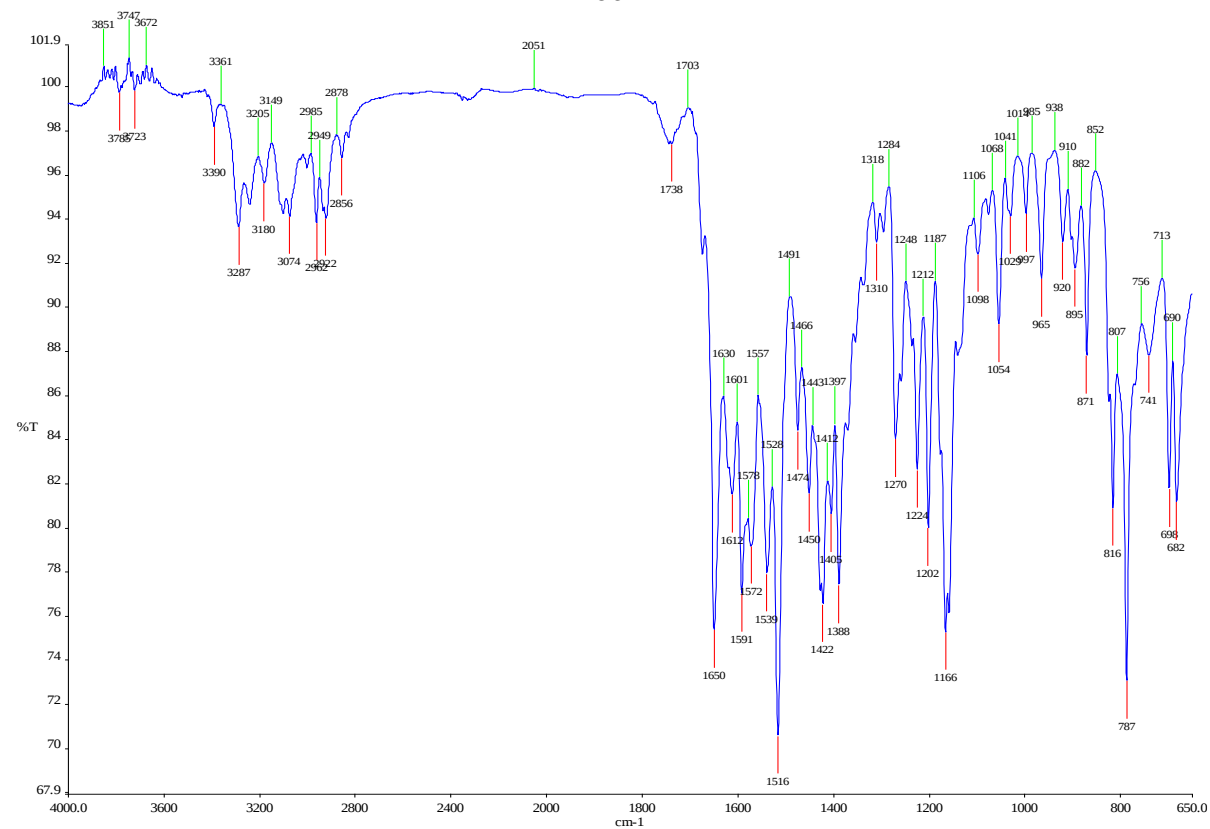




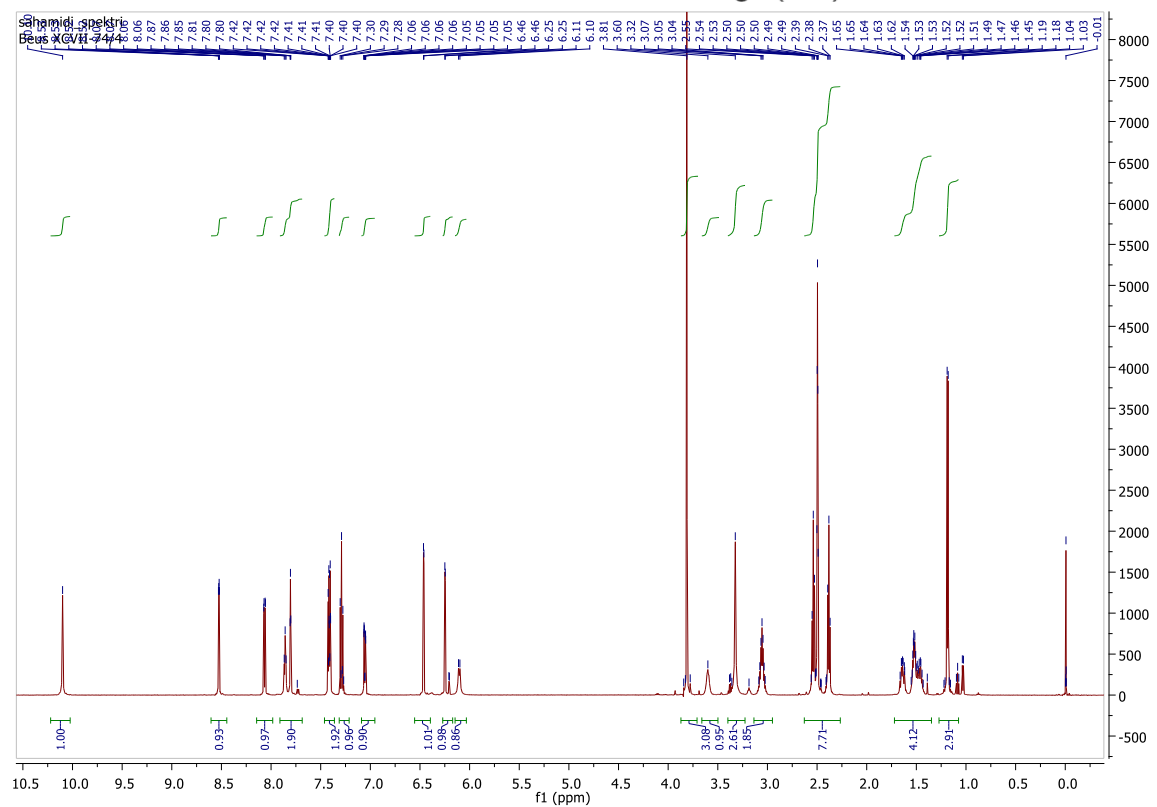
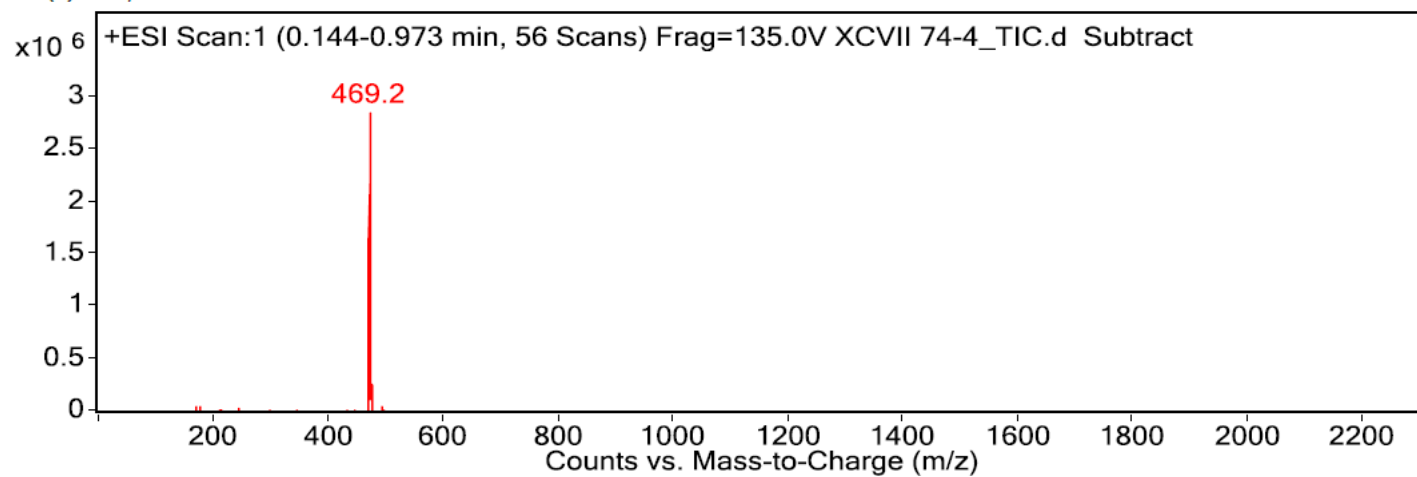


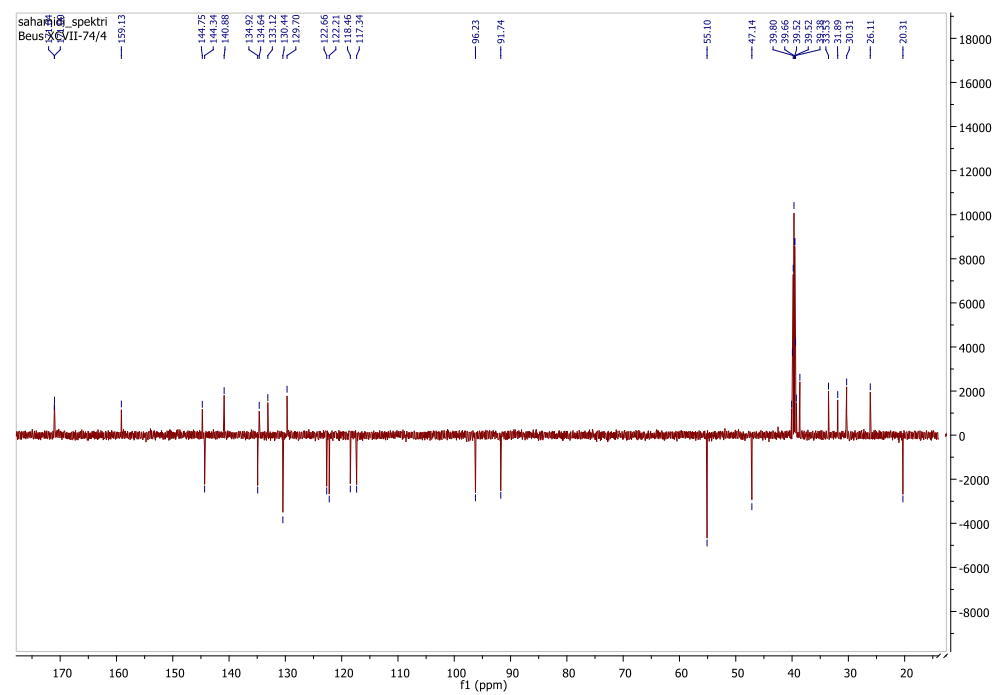


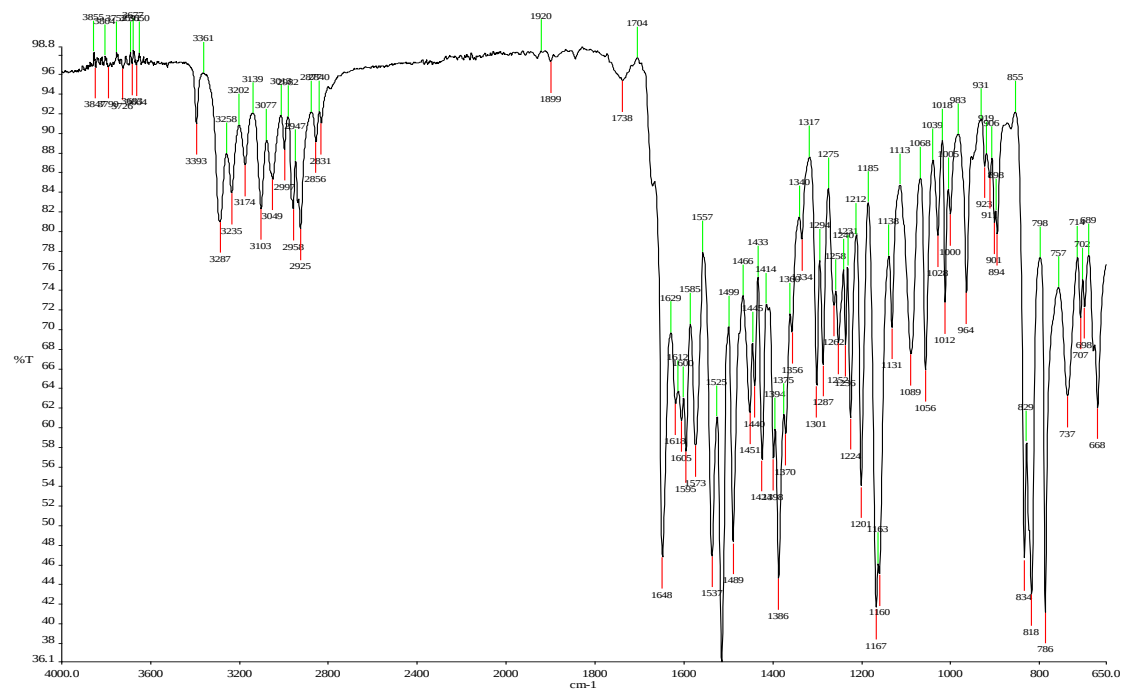
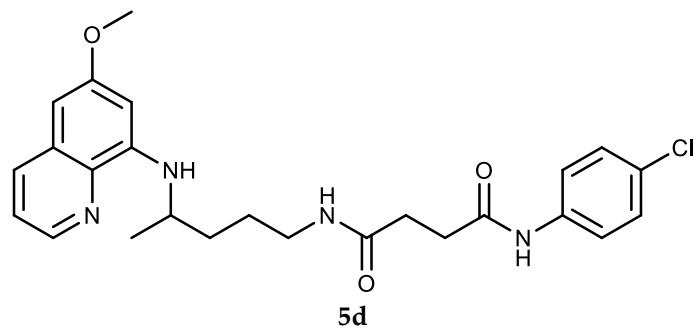
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Ionization Mode
ESI





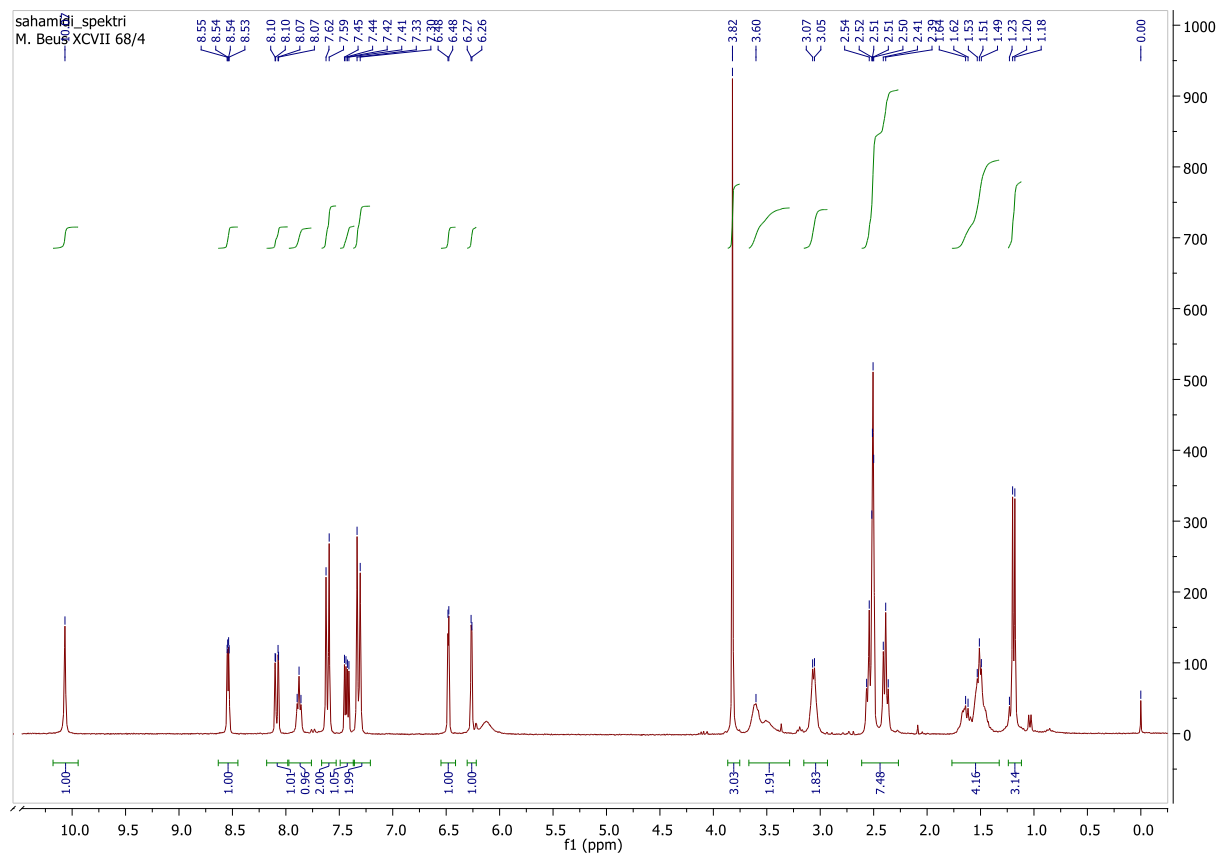
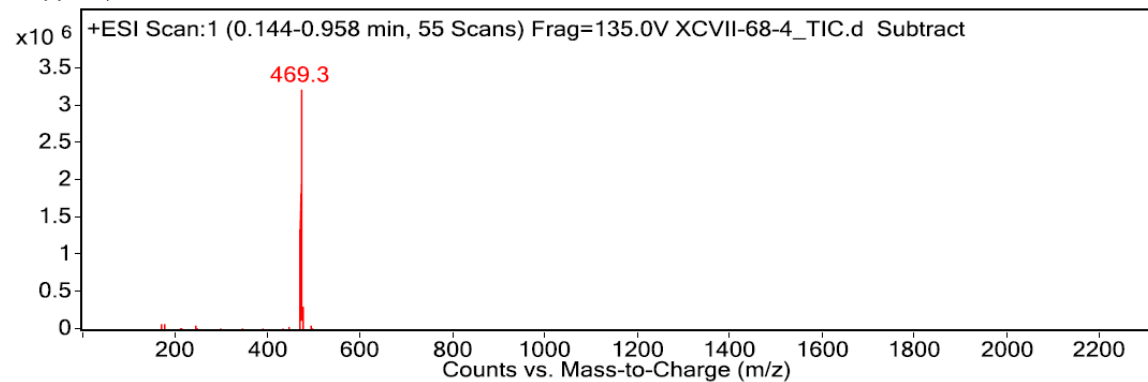


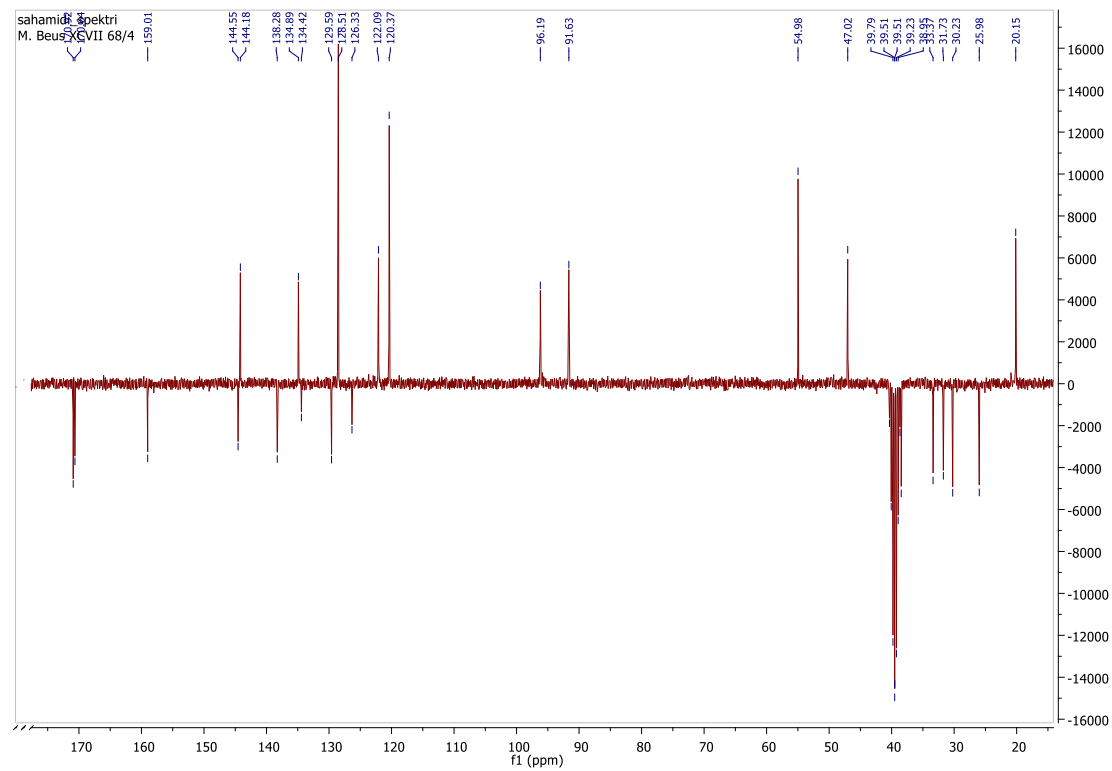
Spectrum Source
Peak (1) in "+/- TIC Scan"

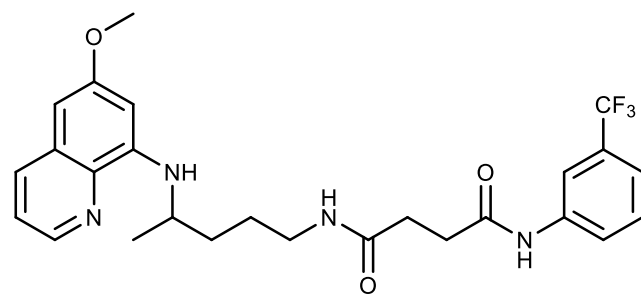
Fragmentor Voltage
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Collision Energy
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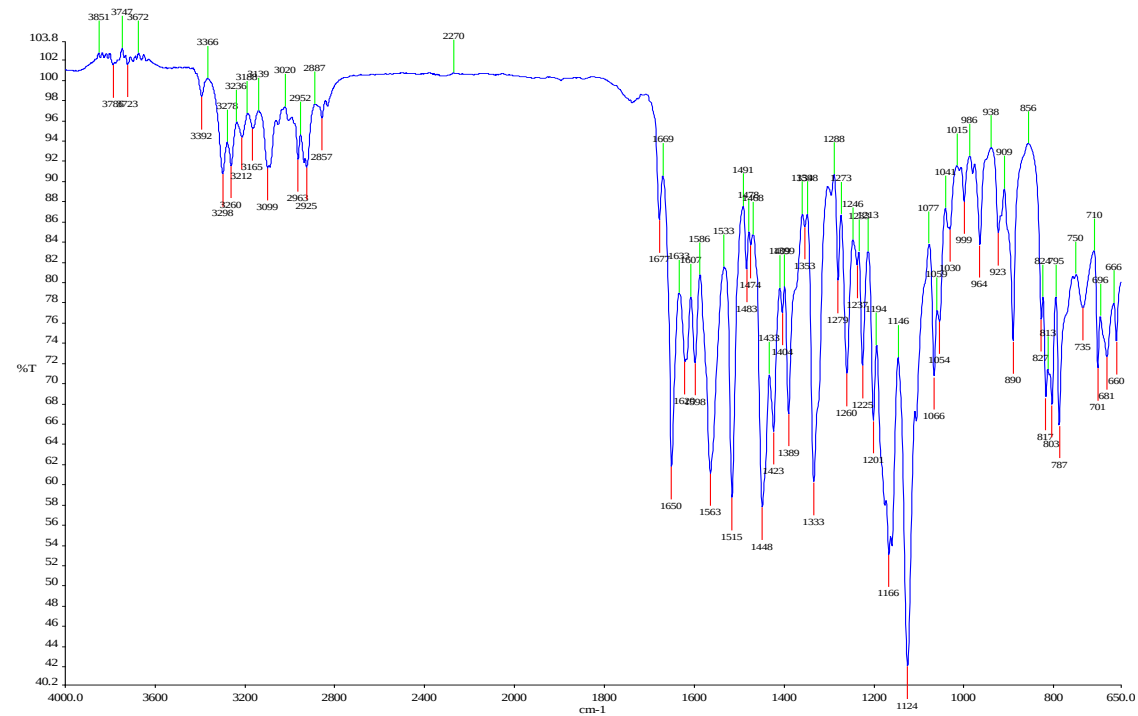
Ionization Mode
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5e



Peak (1) in "+/- TIC Scan"

135

0

ESI

